



System i[®] and System p[®]
Reference codes





System i[®] and System p[®]
Reference codes

Note

Before using this information and the product it supports, read the information in “Notices,” on page 839 and the manual *IBM Systems Safety Information*, G229-9054.

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Reference codes

Reference codes are diagnostic aids that help you determine the source of a hardware or operating system problem. Using a reference code enables you to find the solution to fix the problem. To use reference codes effectively, you must use them in conjunction with other service and support procedures.

Note: System reference codes (SRCs) often indicate failing items. Some failing items are required to be exchanged in groups until the problem is solved. Other failing items are flagged as mandatory exchange and must be exchanged before the service action is complete, even if the problem appears to have been repaired. For more information, see “Block replacement of FRUs” on page 533.

If you were not directed to this page by another procedure, begin the troubleshooting process by using the following link:

Start of call procedure

1. Does the reference code contain a hyphen (-), for example, 111-459?
 - **Yes:** See “List of service request numbers” on page 533.
 - **No:** Continue with the next step.
2. Does the reference code contain exactly 5 characters?
 - **Yes:** See “List of service request numbers” on page 533.
 - **No:** Continue with the next step.
3. Is the first character of the reference code a number sign (#)?
 - **Yes:** See “Reference codes that begin with a number sign (#)” on page 838.
 - **No:** Continue with the next step.
4. Is the reference code a 3-digit hexadecimal number?
 - **Yes:** Prepend 101 and a hyphen (-) to the number, then use that number to refer to the “List of service request numbers” on page 533.
 - **No:** Continue with the next step.
5. Is the reference code a 4-digit hexadecimal number that begins with 0, 2, BC, D, or E?
 - **Yes:** See “Using progress codes” on page 837.
 - **No:** Continue with the next step.
6. Is the reference code an alphanumeric string that begins with HSC or a 6-digit number that begins with 0 and does not contain a hyphen (-)?
 - **Yes:** See HMC error codes.
 - **No:** See “List of system reference codes” on page 2.

If you need more information about reference codes, such as reference code formats and how to use reference code information, see the following pages:

“Using service request numbers” on page 786

“Using progress codes” on page 837

“Using system reference codes” on page 532

List of system reference codes

List of system reference codes

The system reference codes (SRCs) in this list represent reference code types and are organized by their first character, with numbers preceding letters. If you do not find the SRC that you are looking for in this list, ask your next level of support for assistance.

For more information about SRCs, including details about using this list of SRCs, see “Using system reference codes” on page 532.

Note: SRCs often indicate failing items. Some failing items are required to be exchanged in groups until the problem is solved. Other failing items are flagged as mandatory exchange and must be exchanged before the service action is complete, even if the problem appears to have been repaired. For more information, see “Block replacement of FRUs” on page 533.

0 1 2 3 4 5 6 7 8 9 A B C D E F H #

1

1xxx
1400
1750
180A

2

2058
20A8
20Dx
20EE
20FF
2102
2105
2107
220x
25Ax
25Cx
2602
2689
2724
2742
2743
2744
2745
2746
2748
2749
2750
2751
2757
2760
2761
2763
2765
2766
2767
2768
2771

List of system reference codes

2772
2778
2780
2782
2787
2793
2803
2805
280D
280E
281x
2838
283C
283D
283F
2842
2843
2844
2847
2849
284B
287F
2890
2892
28B9
28CB
28CC
28D2
28DB
28DF
2B2x

3

3490
3494
3570
358x
3590
3592

4

40xx
432x
4685
4758
4764
4812
4B20

5

506D
506E
5700
5701
5702
5703

List of system reference codes

5704
5706
5707
5708
5709
570B
571A
571B
571E
571F
573A
573B
573C
573D
573E
574F
5755
575B
576A
57FF

6

6149
6279
632x
6330
6331
6333
6336
6337
6381
6382
6383
6384
6386
6387
63A0
660x
671x
673x
6A59

7

7207
7208

9

9348
9427

A

A1xx
A2xx
A6xx

A7xx
A9xx
AAxx

B

B000
B001
B002
B003
B004
B005
B006
B008
B009
B010
B013
B014
B015
B017

B018
B019
B020
B021
B022
B025
B026
B028
B030
B038
B040
B045
B070
B075
B1xx
B2xx
B3xx
B6xx
B7xx
B9xx
BAxx
BBxx
BCxx (For 4-digit codes that begin with BC, see "List of progress codes" on page 787.)
BF67
BF75
BF77

C

CBxx

For all other codes that begin with C and for 4-digit codes that begin with a space character or a zero, see "List of progress codes" on page 787.

D

DAxx

For codes that begin with D and for 4-digit codes that begin with a space character or a zero, see "List of progress codes" on page 787.

List of system reference codes

E

Exxx (For 4-digit codes that begin with E, see “List of progress codes” on page 787.)

E2xx

E3xx

E302

E303

E332

E338

E355

E35A

E35F

E36C

E3CA

E3D4

E3F0

E4xx

H

For codes that begin with H, see HMC error codes.

#

For codes that begin with a number sign (#), see “Reference codes that begin with a number sign (#)” on page 838.

(1xxx) System power control network (SPCN) reference codes

The system power control network (SPCN) detected a failure.

1. Look at the four rightmost characters of the SRC from Function 11. These characters are the unit reference code.
2. Find the unit reference code in the following table.

For details on the Failing Item column entries, see the SPCN Failing Items Detail table.

Table 1. SPCN reference codes:

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
00A0	SPCN BATs in process No action required. This reference code is logged for information only. If this reference code is present for more than 1 minute, exchange the failing items.	TWRCARD
00AA	Download in process No action required. This reference code is logged for information only.	
00AC	Detected AC loss If system powers on normally or stays powered on after AC power failure, no replacement of parts may be needed.	ACMODUL
00AD	Service Processor Reset caused a system power off	TWRCARD
00BA	The system is running on the Battery Power Unit. No action required. This reference code is displayed for information only.	
00BC	Battery Power Unit test is in process. No action required. This reference code is displayed for information only.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
00CA	Thermal calibration in progress	
00EF	Remote EPO switch is OFF	
1500	Detected AC loss Before replacing any parts, verify that the AC input voltage is correct.	PWRSPLY TWRCARD
1501	Power supply failure	PWRSPLY TWRCARD
1502	Power supply failure	PWRSPLY TWRCARD CBLALL
1503	Power supply failure	PWRSPLY TWRCARD
1510	Detected AC loss Before replacing any parts, verify that the AC input voltage is correct.	PWRSPLY TWRCARD
1511	Power supply failure	PWRSPLY TWRCARD
1512	Power supply failure	PWRSPLY TWRCARD CBLALL
1513 to 1514	Power supply failure	PWRSPLY TWRCARD
1516	No Power Supplies Present The required power supplies are not installed, or, if installed, defective.	PWRSPLY TWRCARD
1517	Power supply failure	PWRSPLY TWRCARD
1520	Detected AC loss Before replacing any parts, verify that the AC input voltage is correct.	PWRSPLY TWRCARD
1521	Power supply failure	PWRSPLY TWRCARD
1522	Power supply failure	PWRSPLY TWRCARD CBLALL
1523 to 1524	Power supply failure	PWRSPLY TWRCARD
1526	No Power Supplies Present The required power supplies are not installed, or, if installed, defective.	PWRSPLY TWRCARD
1527	Power supply failure	PWRSPLY TWRCARD
1530	Detected AC loss Before replacing any parts, verify that the AC input voltage is correct.	PWRSPLY TWRCARD
1531	Power supply failure	PWRSPLY TWRCARD
1532	Power supply failure	PWRSPLY TWRCARD CBLALL

1xxx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1533	Power supply failure	PWRSPLY TWRCARD
1611	Regulator 1 Fault	PWR1918 TWRCARD
1612	Regulator 1 Communication Fault	PWR1918 TWRCARD
1613	Regulator 1 Domain Fault	PWR1918 TWRCARD
1621	Regulator 2 Fault	PWR1918 TWRCARD
1622	Regulator 2 Communication Fault	PWR1918 TWRCARD
1623	Regulator 2 Domain Fault	PWR1918 TWRCARD
1631	Regulator 3 Fault	PWR1918 TWRCARD
1632	Regulator 3 Communication Fault	PWR1918 TWRCARD
1633	Regulator 3 Domain Fault	PWR1918 TWRCARD
1B01	Load fault on the +12V bus	PWR1900 TWRCARD
1B02	Load fault on the +5V bus	PWR1900 TWRCARD
1B03	Load fault on the +3.3V bus	PWR1900 TWRCARD
1B04	Load fault on the -12V bus	PWR1900 TWRCARD
1B05	Load fault on the +1.8V bus	PWR1904 TWRCARD
1B06	Load fault on the +2.5V bus	PWR1904 TWRCARD
1B0A	Load Fault on the +12V/-12v bus	PWR1904 TWRCARD
1B0F, 1C02	Load Fault on the +1.2V bus	PWR1904 TWRCARD
1C04	Load Fault on the +1.5V bus	PWR1904 TWRCARD
1C06	Load Fault on the 1.8/2.5V bus	PWR1904 TWRCARD
1D00 to 1D01	FSP Card SS Fault	CARDFLT
1D02 to 1D03	OSC Card SS Fault	CARDFLT
1D04 to 1D05	Lightstrip SS Fault	CARDFLT LITSTRP CABLEH
1D10	MUX Card SS Fault	CARDFLT
1D11 to 1D18	IO Hub Card SS Fault	CARDFLT

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1D60	RIO/HSL Adapter Card Switch fault	SI_CARD TWRCARD
1D61 to 1D62	Removable Media Planar Switch fault	DEVBPLN TWRCARD
1D63	RIO/HSL Adapter Card Switch fault	SI_CARD TWRCARD
1F01	TMS limit reached - log only	
1F02	SPCN trace information saved	
2600 to 2601	Power Good Fault	PGDPART
2602	Power Good Fault	PWR1918 TWRCARD
2603	Power Good Fault	PGDPART
2605 to 2609	Power Good Fault	PWR1900 TWRCARD
2612	Optical Converter 5V Fault The SPCN detected a fault on the SPCN card optical converter 5V.	CBLALL TWRCARD
2613	Configuration Requires 200V Input Configuration now requires 200V AC power(both supplies need to be the same voltage).	CBLALL
2630 to 2632	Regulator Fault	PWR1918 TWRCARD
2633 to 2635	Regulator Fault	SYSBKPL TWRCARD
2636 to 2637	Regulator Fault	PWR1918 TWRCARD
2638 to 2639	Regulator Fault	SYSBKPL
2640 to 2642	Regulator Fault	PWR1918 TWRCARD
3100	I2C Bus Controller Communication fault	I2CBUS TWRCARD
3101	I2C Bus 1 Communication fault	I2CBUS TWRCARD
3102	I2C Bus 2 Communication fault	I2CBUS TWRCARD
3103	I2C Bus 3 Communication fault	I2CBUS TWRCARD
3104	I2C Bus 4 Communication fault	I2CBUS TWRCARD
3105	I2C Bus 5 Communication fault	I2CBUS TWRCARD
3106	I2C Bus 6 Communication fault	I2CBUS TWRCARD
3109	I2C Bus Adapter Communication fault	I2CBUS TWRCARD
310A to 310B	I2C Bus SPCN VPD Communication fault	I2CBUS TWRCARD

1xxx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3110	I2C Bus DASD Backplane 1 Communication fault	I2CBUS TWRCARD
3111	I2C Bus DASD Backplane 2 Communication fault	I2CBUS TWRCARD
3112	I2C Bus DASD Backplane 3 Communication fault	I2CBUS TWRCARD
3113	I2C Bus Adapter Communication fault	I2CBUS TWRCARD
3114	I2C Bus PCI Backplane Communication fault	I2CBUS TWRCARD
3115	I2C Bus Panel Communication fault	I2CBUS TWRCARD
3116	I2C Bus Fan Local Controller Communication fault	I2CBUS TWRCARD
3118	I2C Bus SPCN VPD Communication fault	I2CBUS TWRCARD
3120	Voltage Adjust Failure	SYSBKPL TWRCARD
3121	I2C Bus 2 Communication fault	I2CBUS TWRCARD
3122 to 3125	I2C Bus SPCN VPD Communication fault	I2CBUS TWRCARD
3200	MUX Hardware Failed Device select mux HW fail drawer1	HMUX TWRCARD
3201	Device select mux HW fail drawer 2	HMUX TWRCARD
3202	Device select mux HW fail drawer 3	HMUX TWRCARD
3203	Device select mux HW fail drawer 4	HMUX TWRCARD
4201	UPS Reported, Utility Failure On	
4203	UPS Reported, Battery Low On	
4212	Config ID does not match HW	PWR1917
4213	BBU in wrong Location	BATRY
4221	BBU Fault	BATRY
4222	BBU Comm Fault	BATRY TWRCARD CBLALL
4225	BBU Expired	BATRY
4410	Internal Battery Power Unit Fault Internal Battery Power Unit in the system has failed.	BATRY BATCHGR TWRCARD CBLALL
4411	Internal Battery Power Unit Charger Fault Internal Battery Power Unit Charger in the system has failed.	BATCHGR TWRCARD CBLALL

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
4412	Internal Battery Power Unit Charger Fault Internal Battery Power Unit Charger in the system has failed.	BATCHGR BATRY TWRCARD CBLALL
4413	Internal Battery Power Unit Charger Fault Internal Battery Power Unit Charger in the system has failed.	BATRY BATCHGR TWRCARD CBLALL
4414	Battery Charger Load fault	PWROC BATRY TWRCARD CBLALL
4415	Battery Power Unit missing	BATRY TWRCARD CBLALL
4417	Battery Charger Unit missing	BATCHGR TWRCARD CBLALL
4600 to 4601	UPS Interface Failure	UPSUNIT TWRCARD
5000 to 5001	FSP fail over failed due to configuration mismatch	TWRCARD
7110, 7120	Power supply failure	PWRSPLY TWRCARD
7200	Thermal Sensor Fault	AMBTEMP
7201	Ambient temperature is out of range	AMBTEMP
7202	Ambient temperature is back in range	
7203	Ambient temperature exceeded limit The system will shut down in 15 minutes.	AMBTEMP
7205	Ambient temperature exceeded limit The system will shut down in 20 seconds.	AMBTEMP
7211	Ambient temperature is out of range Ambient Temperature is above nominal for CPU performance.	AMBTMP1
7212	Ambient temperature is back in range Ambient Temperature has returned to nominal.	AMBTMP2
7300	Power supply failure	PWRSPLY TWRCARD
7610	Air Moving Device Fault The Air Moving Device is operating at the wrong speed. Ensure the fans, and fan tray are fully seated into the fan connectors.	AIRMOVR TWRCARD
7611	Air Moving Device missing error A problem was detected with an Air Moving Device which can be caused by an Air Moving Device not being installed. Ensure the fans, and fan tray are fully seated into the fan connectors. Install Air Moving Device if missing, replace if already installed.	AIRMOVR TWRCARD

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
7620	Air Moving Device Fault The Air Moving Device is operating at the wrong speed. Ensure the fans, and fan tray are fully seated into the fan connectors.	AIRMOVR TWRCARD
7621	Air Moving Device missing error A problem was detected with an Air Moving Device which can be caused by an Air Moving Device not being installed. Ensure the fans, and fan tray are fully seated into the fan connectors. Install Air Moving device if missing, replace if already installed.	AIRMOVR TWRCARD
7630	Air Moving Device Fault The Air Moving Device is operating at the wrong speed. Ensure the fans, and fan tray are fully seated into the fan connectors.	AIRMOVR TWRCARD
7631	Air Moving Device missing error A problem was detected with an Air Moving Device which can be caused by an Air Moving Device not being installed. Ensure the fans, and fan tray are fully seated into the fan connectors. Install Air Moving Device if missing, replace if already installed.	AIRMOVR TWRCARD
7640	Air Moving Device Fault The Air Moving Device is operating at the wrong speed. Ensure the fans, and fan tray are fully seated into the fan connectors.	AIRMOVR TWRCARD
7641	Air Moving Device missing error A problem was detected with an Air Moving Device which can be caused by an Air Moving Device not being installed. Ensure the fans, and fan tray are fully seated into the fan connectors. Install Air Moving Device if missing, replace if already installed.	AIRMOVR TWRCARD
7650	Air Moving Device Fault. Ensure the fans, and fan tray are fully seated into the fan connectors.	AIRMOVR TWRCARD
7651	Air Moving Device missing error. Ensure the fans, fan tray are fully seated into the fan connectors.	AIRMOVR TWRCARD
7690	Air Moving Device Fault. Ensure the fans, and fan tray are fully seated into the fan connectors.	AIRMOVR TWRCARD
7691	Air Moving Device missing error. Ensure the fans, fan tray are fully seated into the fan connectors.	AIRMOVR TWRCARD
8400	No VPD Found due to Invalid Bypass	PWR1917
8402	Unable to Collect VPD	VPDPART TWRCARD
8404 to 8406	Processor Unit VPD Mismatch	VPDPART TWRCARD
8409	No Processor Installed	VPDPART TWRCARD
840D	SPCN Configuration mismatch	IDPART TWRCARD
840E	SPCN Default Configuration loaded	IDPART TWRCARD

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
8410 to 8417	Invalid Processor VPD	VPDPART TWRCARD
8420 to 8427	No Processor VPD	VPDPART TWRCARD
8430	Cable not connected	IDPART TWRCARD
8431	Cable should not be present	IDPART TWRCARD
8432	Secondary unit not present	IDPART TWRCARD
8440	Invalid Dasd backplane	PWR1915
8450 to 8451	SPCN Configuration mismatch	PWR1918 TWRCARD
8455 to 8456	Power Supply Missing	PWRSPLY TWRCARD
8460	All PWR nodes guarded	
8470 to 8477	Processor Unit VPD Mismatch	VPDPART TWRCARD
8700 to 8701	BPC AC Loss	PWR2402
8710 to 8711	DCA UART Communication Fault	DCA TWRCARD SYSBKPL
8720 to 8721	BPC ethernet Communication fault	CABLEH BPC TWRCARD
8731	BPC critical fault, no present node books powered on	CABLEH NEXTLVL
8732	BPC critical fault, ced cage id mismatch - cabling error	CABLEH NEXTLVL
8733	BPC critical fault, no node books present to power on	CABLEH NEXTLVL
8734	BPA Error collection failed	CABLEH NEXTLVL
8735	BPC/HMC fault, No BPC IP addresses	BPC
8740 to 8741	BPC fault, failed to reach standby	BPC
8910	External Netfinity Server 3.3V fault	ALTMANL TWRCARD
8920	External Netfinity Server Power Good fault	TWRCARD ALTMANL
8930	Integrated Netfinity Adapter fault	TWRCARD
8940 to 8943	External Netfinity Server R485 Communication fault	TWRCARD CBLALL
8A00	IO Power control changed to another system unit	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9002	Received a bad return code Partition Firmware has detected a condition that may require attention. Check error log for other errors that may have been reported at the same time as this condition was reported. If this SRC persists contact next level of support.	
9012	Address not valid. LIC command had a frame address that was not valid. Exchange the SPCN frame-to-frame cables to the failing frame.	TWRCARD CBLALL
9013	Invalid Node Address. The address in the SPCN command does not match the secondary nodes assigned address. Exchange the failing items for the SPCN node reporting the error.	TWRCARD CBLALL
9014	A command has an invalid address mode. A command from the system unit specified a unit address of D or E or had a frame address of 00. Exchange the failing items in the system unit.	AJDG301 TWRCARD
9016, 9021	A command to an SPCN node was rejected. No action required. This reference code is logged for information only.	
9022	Addressed Unit not in frame. The addressed unit does not exist in the addressed frame. No action required. This reference code is logged for information only.	
9023	Addressed Unit exists, but the frame is powered off. The addressed unit is in a frame that is powered off. No action required. This reference code is logged for information only.	
9024	SPCN Licensed Internal Code not valid. The Licensed Internal Code in one of the secondary nodes is not valid. The code will be reloaded. No action required. This reference code is logged for error analysis only.	
9025	SPCN Licensed Internal Code is not valid. The Licensed Internal Code in one of the frames is not valid. The code will be reloaded. No action required. This reference code is logged for error analysis only.	
9026	Battery Power Unit is reporting a low charge. The battery power unit is not charged enough to run a test. No action required. This reference code is logged for information only.	
9027	Battery Power Unit is defective. No action required. This reference code is logged for information only.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9028	<p>SPCN Licensed Internal Code is not valid.</p> <p>The Licensed Internal Code in the primary node is not valid. The code will be reloaded.</p> <p>No action required. This reference code is logged for error analysis only.</p>	
9029	<p>SPCN VPD Damaged</p> <p>The VPD record in the EEPROM has bad data.</p> <p>Exchange the failing items for the node reporting the failure.</p>	TWRCARD
902C	<p>Battery Power Unit test was aborted.</p> <p>The battery power unit test was aborted.</p> <p>No action required. This reference code is logged for information only.</p>	
902D	<p>Addressed frame is not in SPCN configuration table.</p> <p>The addressed frame is not in the SPCN configuration table.</p> <p>No action required. This reference code is logged for information only.</p>	
9031	<p>Frame-to-Frame Communications Failure</p> <p>The SPCN detected a BCC error on a transmission from another frame. The transmission is attempted again.</p> <p>No action required. This reference code is logged for error analysis only.</p>	
9032	<p>SPCN Communications Failure, unit to rack.</p> <p>The frame detected a BCC error on a transmission from a secondary node to the frame. The transmission is attempted again.</p> <p>No action required. This reference code is logged for error analysis only.</p>	
9033	<p>SPCN Communications Failure, rack to unit.</p> <p>A secondary node detected a BCC error on a transmission from the frame. The transmission is attempted again.</p> <p>No action required. This reference code is logged for error analysis only.</p>	
9034	<p>Unsupported Packet Size</p> <p>The receiving node detected a packet exceeding 70 bytes. The frame can also return this code if a secondary node returns more than 10 bytes to a PAS command.</p> <p>No action required. This reference code is logged for error analysis only.</p>	
9035	<p>Secondary SPCN node timeout.</p> <p>A secondary SPCN node did not respond to a command. The command was attempted again and failed.</p> <p>No action required. This reference code is logged for error analysis only.</p>	
9036	<p>Frame Timeout</p> <p>One or more frames did not respond to a command. The command is attempted again.</p> <p>No action required. This reference code is logged for error analysis only.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
903B	<p>Invalid Packet Length for data sent.</p> <p>The number of bytes sent or received does not match the number of bytes specified in the command.</p> <p>No action required. This reference code is logged for error analysis only.</p>	
9041	<p>Invalid Load Type</p> <p>The down load was successful, but the wrong type of Licensed Internal Code was loaded. The operation was attempted again but was not successful. Exchange the failing items for the node reporting the fault.</p>	AJDG301 TWRCARD
9042	<p>EEPROM Failure</p> <p>The EEPROM in an SPCN node cannot be written successfully.</p> <p>Exchange the SPCN node reported in the failure.</p>	TWRCARD
9043	<p>Download Failure</p> <p>The Licensed Internal Code download to an SPCN node was completed but was not successful.</p> <p>Exchange the failing SPCN node.</p>	TWRCARD
9046	<p>QDS Packet Sequence Error</p> <p>The Packet Sequence number is wrong. The download was stopped.</p>	TWRCARD
9047	<p>QDS Block Sequence Error</p> <p>The Block Sequence number is wrong. The download was stopped.</p>	TWRCARD
9048	<p>The SPCN ROS and EEPROM LIC is not compatible.</p> <p>The LIC levels in the nodes ROS and EEPROM are not compatible.</p> <p>Exchange the failing items for the failing node.</p>	TWRCARD AJDG301
9080	<p>Undefined Status Code</p> <p>An SPCN node returned an unknown status code.</p> <p>Exchange the failing SPCN node.</p>	TWRCARD BACKPLN
90F0	<p>A frame was dropped from the SPCN configuration.</p> <p>A frame was dropped from the SPCN configuration. This is usually caused by a loss of ac power or a problem with the frame-to-frame cable.</p>	PWR1907 TWRCARD CBLALL
90F1	<p>A frame was added to the SPCN configuration.</p> <p>No action required. This reference code is logged for information only.</p>	
90F2	<p>Slave disappeared</p> <p>A slave was dropped from the SPCN configuration. This is usually caused by a loss of ac power. (This is for a 24 inch rack)</p>	
90F3	<p>Slave reappeared</p>	
9101	<p>VLIC-SPCN Timeout</p> <p>A Licensed Internal Code timeout occurred. The SPCN failed to respond to a Licensed Internal Code command.</p>	TWRCARD CTLPNL SVCPROC

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9102	Assign Permanent Address command failure A node failed to perform an Assign Permanent Address command.	TWRCARD
9103	Download Initialize Timeout An SPCN node failed to enter the download state after an Initialize for Download command. Exchange the failing SPCN node.	TWRCARD
9104	Download Completion Timeout An SPCN node failed to leave the download state. Exchange the failing SPCN node.	TWRCARD
9105	Load Damaged Timeout An SPCN node failed to enter the operational state. Exchange the failing SPCN node.	TWRCARD
9106	An SPCN LID was not found. No action required. This reference code is logged for information only.	
9107	An SPCN microcode download is required. No action required. This reference code is logged for error analysis only.	
9108	A status change occurred in one of the SPCN nodes. No action required. This reference code is logged for information only.	
9109	Licensed Internal Code part number is not correct. The AROS part number field was not updated to the correct level after the system attempted to load new Licensed Internal Code.	TWRCARD
910A	RIO Download Required	
910B	Maximum number of retrys exceeded	
9110	Battery Power Unit capacity test failed. The battery power unit was not able to pass the capacity test.	BATRY
9111	SPCN is too large for VLIC. There are more nodes in the network than VLIC can service.	AJDG301
9112	Primary SPCN node is reporting load damaged. The Licensed Internal Code for the primary SPCN node is damaged. The reload failed because the code could not be found.	TWRCARD
9113	Secondary SPCN node is reporting load damaged. The Licensed Internal Code for the secondary SPCN node is damaged. The reload failed because the code could not be found.	TWRCARD
9114	Frame SPCN node is reporting load damaged. The Licensed Internal Code for a SPCN node is damaged. The reload failed because the code could not be found.	TWRCARD

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9115	SPCN Command rejected by the Service Processor. The service processor rejected an SPCN command from the Licensed Internal Code. No action required. This reference code is logged for information only.	
9116	SPCN - Control Panel interface failure. The SPCN to control panel interface is not working.	
9117	SPCN - Control Panel interface is now working. The SPCN to control panel interface is now working. No action required. This reference code is logged for information only.	
9118	PHYP out of memory	AJDG301
9119	NVRAM Write Failed	TWRCARD
911A	Too many racks attached Reduce the number of racks to maximum configuration on the system.	
911B	SPCN CEC node code failure	AJDG301
911C	Two nodes have same VPD	VPDPART
911D	RIO Download Failure	TWRCARD SI_CARD
911E	Temporary VPD written	TWRCARD
911F	CEC not found	TWRCARD
9120	Duplicate backplane VPD	SYSBKPL
9131	Invalid XM Return Code	
9132	Node contains temporary VPD	
9133	Bad PCI Correlation Problem PCI bus not matched	CBLALL
9134	PCI bus VPD error Check Error Log for B700 xxxx Reference Codes.	
9135	Open SPCN Loop	CBLALL TWRCARD
9136	The manually started download was interrupted	
9137	Bad PCI Correlation Problem SPCN node not matched	CBLALL
9138	Bad Location Code	CBLALL
9139	Open SPCN loop resolved	
913A	RIO download sent retry	
91DD	All SPCN Downloads Complete	
91DE	RIO Download Complete	
91FB	Write VPD on next IPL	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9212	Frame Address field not valid. A Licensed Internal Code command had a frame address that is not valid. Exchange the failing items for the failing node.	TWRCARD
9213	Invalid Address status, secondary node. The address in the SPCN command does not match the assigned address of the secondary node. Exchange the failing items for the failing node.	TWRCARD
9214	Invalid Address Mode status Invalid Address Mode occurred during Frame Command processing.	TWRCARD AJDG301
9215	Invalid Frame Command status Invalid Frame Command occurred during Frame Command processing.	TWRCARD AJDG301
921B	System Unit SPCN Port Fault status. System Unit Port Fault occurred during Command processing.	TWRCARD AJDG301
922B	Address Unassigned status A secondary node has no address assigned during Command processing.	TWRCARD AJDG301
9231	Frame-to-Frame Communications Failure A frame-to-frame communications failure occurred during STF processing.	TWRCARD CBLALL
9232	Intrarack Communications Failure An SPCN secondary node to frame communications failure occurred during Command processing.	TWRCARD CBLALL
9233	Intrarack Communications Failure An SPCN frame to secondary node communications failure occurred during Command processing.	TWRCARD CBLALL
9234	Unsupported Packet Size status Unsupported Packet Size occurred during STF and Secondary Node Command processing.	TWRCARD CTLPNL SVCPROC
9235	SPCN Secondary Node Timeout status An SPCN Secondary Node Timeout occurred during Command processing. If the failing secondary node is in a 9337, go to the "Analyzing Problems" section in the <i>9337 Disk Array Service Information</i> manual.	TWRCARD AJDG301 CBLALL
9236	Frame Timeout status An SPCN Frame Node Timeout occurred during Network post processing.	TWRCARD CBLALL
9238	Secondary Node Fault An SPCN Secondary Node Fault occurred during Command processing.	TWRCARD AJDG301
9239	Frame Node Fault An internal error in the SPCN frame node prevents the running of a Frame command.	TWRCARD AJDG301

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
923A	ASA Failure The frame address returned by a secondary node does not match the address of the frame.	TWRCARD AJDG301
923B	Invalid Packet Length for data sent. An Invalid Packet Length occurred for data exchanged.	AJDG301 TWRCARD
9280	Response Stack Overflow Too many responses were received during System Frame command processing.	CBLALL AJDG301 TWRCARD
9281	Response Overrun Response Overrun occurred during System Frame processing.	CBLALL AJDG301 TWRCARD
9282	No Free Entries No free entries were found during System Frame processing.	CBLALL AJDG301 TWRCARD
9283	ARA Failure An Assign Frame Address Failure occurred during ARA Preprocessing.	TWRCARD AJDG301
9284	Undefined status Undefined Status occurred during Frame or STF processing.	TWRCARD AJDG301
9285	BCC Fault A BCC Error was detected during Network post processing.	TWRCARD
9286	Length Check Error. Length Check occurred during SPCN post processing.	TWRCARD AJDG301
9287	Undefined status Undefined Status occurred during Command processing.	TWRCARD AJDG301
9288	Configuration Error A configuration error was detected during System Frame processing.	TWRCARD AJDG301
9289	Invalid Packet Length for data sent. Invalid Packet Length occurred for data exchanged.	AJDG301 TWRCARD
C62E	SPCN Network Fault An SPCN frame-to-frame communication failure was detected.	TWRCARD CBLALL
CB15	EEPROM Failure	TWRCARD

Table 2. SPCN failing items:

Failing Item	Description	Document Description
ACMODUL	AC Module	See the service documentation for instructions.
AIRMOVR	Fan and Blower assemblies	See the service documentation for instructions.
AJDG301	Vertical Licensed Internal Code.	Service Functions; APAR or LICTR
ALTMANL	Alternate Manual Required	See the service documentation for instructions.
AMBTEMP	Ambient temperature exceeded limit	See the service documentation for instructions.

Failing Item	Description	Document Description
AMBTMP1	Ambient temperature too high	See the service documentation for instructions.
AMBTMP2	Ambient temperature is within range	See the service documentation for instructions.
BACKPLN	Back Plane Unit	See the service documentation for instructions.
BATCHGR	Battery Power Unit Charger	See the service documentation for instructions.
BATRY	Battery Power Unit	See the service documentation for instructions.
BPC	BPC Fault	See the service documentation for instructions.
CABLEH	cable all for 24 inch unit	See the service documentation for instructions.
CARDFLT	Card Fault	See the service documentation for instructions.
CBLALL	Cable Failure	See the service documentation for instructions.
CTLPNL	Control Panel	See the service documentation for instructions.
DCA	DCA fault	See the service documentation for instructions.
DEVBPLN	Device backplane	See the service documentation for instructions.
HMUX	MUX Hardware fail	See the service documentation for instructions.
I2CBUS	I2C Bus Part	See the service documentation for instructions.
IDPART	Vital Product Data Parts	See the service documentation for instructions.
LITSTRP	Litstrip	See the service documentation for instructions.
NEXTLVL	Call next level of support	See the service documentation for instructions.
PGDPART	Power Good Part	See the service documentation for instructions.
PWR1900	Power-PIP 1900	See the service documentation for instructions.
PWR1902	Power-PIP 1902	See the service documentation for instructions.
PWR1903	Power-PIP 1903	See the service documentation for instructions.
PWR1904	Power-PIP 1904	See the service documentation for instructions.
PWR1906	Power-PIP 1906	See the service documentation for instructions.
PWR1907	Power-PIP 1907	INFORMATION
PWR1908	Power-PIP 1908	See the service documentation for instructions.
PWR1909	Power-PIP 1909	See the service documentation for instructions.
PWR1911	Power-PIP 1911	See the service documentation for instructions.
PWR1915	Power-PIP 1915	See the service documentation for instructions.
PWR1916	Power-PIP 1916	See the service documentation for instructions.
PWR1917	Power-PIP 1917	See the service documentation for instructions.
PWR1918	Power-PIP 1918	See the service documentation for instructions.
PWR2402	Power 2402 for 24 inch unit	See the service documentation for instructions.
PWROC	Power Supply overcurrent	See the service documentation for instructions.
PWRSPLY	Power Supply	See the service documentation for instructions.
SI_CARD	System Interconnect controller	See the service documentation for instructions.
SVCPROC	Service Processor Card	See the service documentation for instructions.
SYSBKPL	System unit backplane	See the service documentation for instructions.
TWRCARD	Card enclosure or backplane	See the service documentation for instructions.
UPSUNIT	UPS unit part	See the service documentation for instructions.
VPDPART	VPD Communication Part	See the service documentation for instructions.

(1400) Bulk power subsystem reference codes

For use by service providers.

The bulk power subsystem reference codes are issued from the 24-inch power subsystem and are meant to be serviced through the Service focal point application on the Hardware Management Console (HMC). This list of (1400) bulk power subsystem reference codes is included here for informational use only.

Note: Serviceable actions for the following SRCs require that you use the Service focal point application on the HMC to access more specific information, including isolation procedures, MAPs, and instruction on how to remove and replace parts. All the entries in the Failing Item column in the following table link to Removing and replacing parts, which provides instructions for using the Service focal point application to remove and replace parts for specific models.

Table 1. (1400) Bulk power subsystem reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
004F	The room temperature sensed at the UEPO switch has returned to normal. Contact your next level of support to notify them of a potential problem.	
0058	There is a problem with the BPJ.	BPJ-A
0059	There is a problem with the BPJ.	BPJ-B
0060	Air Moving Device number one is defective.	MDAA-1 MSAA-1
0061	Air Moving Device number two is defective.	MDAA-2 MSAA-2
0062	Air Moving Device number three is defective.	MDAA-3 MSAA-3
0063	Air Moving Device number four is defective.	MDAA-4 MSAA-4
0064	Air Moving Device number five is defective.	MDAA-5 MSAA-5
0065	Air Moving Device number six is defective.	MDAA-6 MSAA-6
0072	The ambient room temperature is out of specification.	
0078	Logic on a PU book has reached a warning level.	
0079	All DCAs have detected a critical logic over temperature in the called PU book.	NODE-ANY
007D	LGA shorts test has failed.	MCM1 MCM2 NODE-ANY
007E	There is a problem with sensed and passed configuration of the MCMs that are installed in the system.	
0080	The VPD (seeptom) in the FRU specified by the slot PIH value is defective.	ANY-SLOT

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0081	The input power to BPA A has been lost or partially lost.	BPR-1A BPR-2A BPR-3A PWRC-BPE-A-PWR BPC-A BPE-BOARD-A
0082	The input power to BPA B has been lost or partially lost.	BPR-1B BPR-2B BPR-3B PWRC-BPE-B-PWR BPC-B BPE-BOARD-B
00A0	UPS A-side utility failure.The UPS is powering the system.	
00A2	UPS A-side battery is low.	
00A4	UPS A-side is offline and Bypass is active.	BPC-A
00A8	Power has been restored after the UPS on A-side was active.	
00AA	UPS A-side status has changed from not available to installed.	
00AC	UPS A-side status has changed from installed to not available.	
00AE	UPS A-side battery is no longer low.	
00AF	UPS A-side is active and Bypass has ended.	
0101	The voltage on voltage level 1 has reached the warning undervoltage limit for the specified cage or drawer.	
0102	The voltage on voltage level 2 has reached the warning undervoltage limit for the specified cage or drawer.	
0103	The voltage on voltage level 3 has reached the warning undervoltage limit for the specified cage or drawer.	
0104	The voltage on voltage level 4 has reached the warning undervoltage limit for the specified cage or drawer.	
0105	The voltage on voltage level 5 has reached the warning undervoltage limit for the specified cage or drawer.	
0106	The voltage on voltage level 6 has reached the warning undervoltage limit for the specified cage or drawer.	
0107	The voltage on voltage level 7 has reached the warning undervoltage limit for the specified cage or drawer.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0108	The voltage on voltage level 8 has reached the warning undervoltage limit for the specified cage or drawer.	
0109	The voltage on the standby level has reached the warning undervoltage limit for the specified cage or drawer.	
0135	There has been an internal bulk power software error.	
01A0	UPS B-side utility failure-The UPS is powering the system.	
01A2	UPS B-side battery is low.	
01A4	UPS B-side is offline and Bypass is active.	BPC-B
01A8	Power has been restored after the UPS on B-side was active.	
01AA	UPS B-side status has changed from not available to installed.	
01AC	UPS B-side status has changed from installed to not available.	
01AE	UPS B-side battery is no longer low.	
01AF	UPS B-side is active and Bypass has ended.	
0201	The voltage on voltage level 1 has reached the warning over voltage limit for the specified cage or drawer.	
0202	The voltage on voltage level 2 has reached the warning over voltage limit for the specified cage or drawer.	
0203	The voltage on voltage level 3 has reached the warning over voltage limit for the specified cage or drawer.	
0204	The voltage on voltage level 4 has reached the warning over voltage limit for the specified cage or drawer.	
0205	The voltage on voltage level 5 has reached the warning over voltage limit for the specified cage or drawer.	
0206	The voltage on voltage level 6 has reached the warning over voltage limit for the specified cage or drawer.	
0207	The voltage on voltage level 7 has reached the warning over voltage limit for the specified cage or drawer.	
0208	The voltage on voltage level 8 has reached the warning over voltage limit for the specified cage or drawer.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0209	The voltage on the standby level has reached the warning over voltage limit for the specified cage or drawer.	
0301	An over current condition has been detected on voltage level 1 for the specified cage or drawer.	FRULEVEL1
0302	An over current condition has been detected for voltage level 2 for the specified cage or drawer.	FRULEVEL2
0303	An over current condition has been detected for voltage level 3 for the specified cage or drawer.	FRULEVEL3
0304	An over current condition has been detected for voltage level 4 level for the specified cage or drawer.	FRULEVEL4
0305	An over current condition has been detected for voltage level 5 for the specified cage or drawer.	FRULEVEL5
0306	An over current condition has been detected for voltage level 6 for the specified cage or drawer.	FRULEVEL6
0307	An over current condition has been detected for voltage level 7 for the specified cage or drawer.	FRULEVEL7
0308	An over current condition has been detected for voltage level 8 for the specified cage or drawer.	FRULEVEL8
0309	An over current condition has been detected for the standby voltage level for the specified cage or drawer.	FRULEVEL9
0401	An over voltage condition has been detected for voltage level 1 for the specified cage or drawer.	FRULEVEL1
0402	An over voltage condition has been detected for voltage level 2 for the specified cage or drawer.	FRULEVEL2
0403	An over voltage condition has been detected for voltage level 3 for the specified cage or drawer.	FRULEVEL3
0404	An over voltage condition has been detected for voltage level 4 for the specified cage or drawer.	FRULEVEL4
0405	An over voltage condition has been detected for voltage level 5 for the specified cage or drawer.	FRULEVEL5
0406	An over voltage condition has been detected for voltage level 6 for the specified cage or drawer.	FRULEVEL6

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0407	An over voltage condition has been detected for voltage level 7 for the specified cage or drawer.	FRULEVEL7
0408	An over voltage condition has been detected for voltage level 8 specified cage or drawer.	FRULEVEL8
0409	An over voltage condition has been detected for the standby level on the specified cage or drawer.	FRULEVEL9
1080	The VPD (seeprom) bus in the specified drawer can not be accessed.	FRUVPDBUS
1081	The VPD in CEC main storage can not be accessed or has a problem that is preventing the CEC from powering on.	FRUVPDMEMORY
1082	VPD resolution failure in the cage or drawer.	FRUVPDBUS
1301	The DASD backplane is defective.	ANY-DASDBACKPLN
1302	The IO planar is defective.	ANY-PLANAR
1304	The is a defective DASD on Backplane one (P3, leftmost).	ANY-DASD
1305	The is a defective DASD on Backplane two (P4, 2nd left).	ANY-DASD
1306	The is a defective DASD on Backplane three (P5, 2nd right).	ANY-DASD
1307	The is a defective DASD on Backplane four (P6, rightmost).	ANY-DASD
1308	The is a switch riser card.	ANY-RISER
1309	The is a switch riser card.	ANY-PLANAR
1A11	A communication fault between BPC A and the load on port J01 has been detected.	BPCA-PORT-1
1A14	A communication fault between BPC A and the load on port J04 has been detected.	BPCA-PORT-4
1A15	A communication fault between BPC A and the load on port J05 has been detected.	BPCA-PORT-5
1A16	A communication fault between BPC A and the load on port J06 has been detected.	BPCA-PORT-6
1A17	A communication fault between BPC A and the load on port J07 has been detected.	BPCA-PORT-7
1A18	A communication fault between BPC A and the load on port J08 has been detected.	BPCA-PORT-8

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1A19	A communication fault between BPC A and the load on port J09 has been detected.	BPCA-PORT-9
1A94	An over current has been detected on 350V between BPC A and the load on its port J04.	BPCA-PORT-4
1A95	An over current has been detected on 350V between BPC A and the load on its port J05.	BPCA-PORT-5
1A96	An over current has been detected on 350V between BPC A and the load on its port J06.	BPCA-PORT-6
1A97	An over current has been detected on 350V between BPC A and the load on its port J07.	BPCA-PORT-7
1A98	An over current has been detected on 350V between BPC A and the load on its port J08.	BPCA-PORT-8
1A99	An over current has been detected on 350V between BPC A and the load on its port J09.	BPCA-PORT-9
1B11	A communication fault between BPC B and the load on port J01 has been detected.	BPCB-PORT-1
1B14	A communication fault between BPC B and the load on port J04 has been detected.	BPCB-PORT-4
1B15	A communication fault between BPC B and the load on port J05 has been detected.	BPCB-PORT-5
1B16	A communication fault between BPC B and the load on port J06 has been detected.	BPCB-PORT-6
1B17	A communication fault between BPC B and the load on port J07 has been detected.	BPCB-PORT-7
1B18	A communication fault between BPC B and the load on port J08 has been detected.	BPCB-PORT-8
1B19	A communication fault between BPC B and the load on port J09 has been detected.	BPCB-PORT-9
1B94	An over current has been detected on 350V between BPC B and the load on its port J04.	BPCB-PORT-4
1B95	An over current has been detected on 350V between BPC B and the load on its port J05.	BPCB-PORT-5

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1B96	An over current has been detected on 350V between BPC B and the load on its port J06.	BPCB-PORT-6
1B97	An over current has been detected on 350V between BPC B and the load on its port J07.	BPCB-PORT-7
1B98	An over current has been detected on 350V between BPC B and the load on its port J08.	BPCB-PORT-8
1B99	An over current has been detected on 350V between BPC B and the load on its port J09.	BPCB-PORT-9
2051	DCA number one is defective.	DCA-01
2052	DCA number two is defective.	DCA-02
2053	DCA number three is defective.	DCA-03
2054	The bulk power fan is defective in BPA-A.	BPF-A BPC-A
2055	The bulk power fan is defective in BPA-B.	BPF-B BPC-B
2069	All DCAs reported 'No airflow in cage' - Make sure that there are no blocked or dirty air inlet or filters.	
2070	A BPA has reported 'No airflow in cage' - Make sure that there are no blocked or dirty air inlet or filters.	
2071	A BPA has reported 'No airflow in cage' - Make sure that there are no blocked or dirty air inlet or filters.	
2073	BPR-1A located in BPA-A has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.	BPR-1A
2074	BPR-1B located in BPA-B has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.	BPR-1B
2093	BPA-A BPR-1 is defective.	BPR-1A BPC-A BPD-1A BPD-2A BPD-3A IBF-1A BPE-BOARD-A

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2095	BPA-A has reported an over-current on the 350VDC bulk.	BPR-1A BPD-1A BPC-A BPD-2A BPD-3A BPR-2A BPR-3A BPE-BOARD-A
2096	The BPC in BPA-A is defective.	BPC-A
2097	BPD-1 is defective in BPA-A.	BPD-1A BPC-A
209A	Communication error btween BPC A and BPR 1A.	BPR-1A BPC-A BPE-BOARD-A
209B	Communication error btween BPC A and BPR 2A.	BPR-2A BPC-A BPE-BOARD-A
209C	Communication error btween BPC A and BPR 3A.	BPR-3A BPC-A BPE-BOARD-A
209D	Communication error btween BPC B and BPR 1B.	BPR-1B BPC-B BPE-BOARD-B
209E	Communication error btween BPC B and BPR 2B.	BPR-2B BPC-B BPE-BOARD-B
209F	Communication error btween BPC B and BPR 3B.	BPR-3B BPC-B BPE-BOARD-B
20A3	BPA-A BPR-2 is defective.	BPR-2A BPC-A BPD-1A BPD-2A BPD-3A IBF-2A BPE-BOARD-A
20A5	BPR-1A has reported an over-current on the 350VDC bulk.	BPR-1A BPD-1A BPC-A BPD-2A BPD-3A BPR-2A BPR-3A BPE-BOARD-A
20A6	The BPC in BPA-B is defective.	BPC-B
20A7	BPD-2 is defective in BPA-A.	BPD-2A BPC-A

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
20B3	BPA-A BPR-3 is defective.	BPR-3A BPC-A BPD-1A BPD-2A BPD-3A IBF-3A BPE-BOARD-A
20B5	BPR-2A has reported an over-current on the 350VDC bulk.	BPR-2A BPD-1A BPC-A BPD-2A BPD-3A BPR-1A BPR-3A BPE-BOARD-A
20B7	BPD-3 is defective in BPA-A.	BPD-3A BPC-A
20B9	The EPO panel or the cable between both BPCs and EPO panel is defective.	EPO-SWITCH CBL-BPCA-EPO CBL-BPCB-EPO BPC-A BPC-B
20C1	The UEPO switch on the BPC A-side is defective or in the BYPASS position.	BPC-A
20C2	The BPC on the A-side has detected an open UEPO loop.	EPO-SWITCH BPC-A BPR-1A BPR-2A BPR-3A CBL-BPCA-EPO BPE-BOARD-A
20C3	A-side BPC detects an open room UEPO loop.	EPO-SWITCH BPC-A CBL-BPCA-EPO
20C5	BPR-3A has reported an over-current on the 350VDC bulk.	BPR-3A BPD-1A BPC-A BPD-2A BPD-3A BPR-1A BPR-2A BPE-BOARD-A
2151	DCA number one is defective.	DCA-11
2152	DCA number two is defective.	DCA-12
2153	DCA number three is defective.	DCA-13
2173	BPR-2A located in BPA-A has reported an over temperature error. Make sure that the air inlets are not blocked, that filler books are installed in empty locations, and that no heat source is located near the BPR ASM.	BPR-2A

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2174	BPR-2A located in BPA-A has reported an over temperature error. Make sure that the air inlets are not blocked, that filler books are installed in empty locations, and that no heat source is located near the BPR ASM.	BPR-2B
2193	BPA-B BPR-1 is defective.	BPR-1B BPC-B BPD-1B BPD-2B BPD-3B IBF-1B BPE-BOARD-B
2195	BPA-B has reported an over-current on the 350VDC bulk.	BPR-1B BPD-1B BPC-B BPD-2B BPD-3B BPR-2B BPR-3B BPE-BOARD-B
2197	BPD-1 is defective in BPA-B.	BPD-1B BPC-B
21A3	BPA-B BPR-2 is defective.	BPR-2B BPC-B BPD-1B BPD-2B BPD-3B IBF-2B BPE-BOARD-B
21A7	BPD-2 is defective in BPA-B.	BPD-2B BPC-B
21B3	BPA-B BPR-3 is defective.	BPR-3B BPC-B BPD-1B BPD-2B BPD-3B IBF-3B BPE-BOARD-B
21B5	BPR-2B has reported an over-current on the 350VDC bulk.	BPR-2B BPD-1B BPC-B BPD-2B BPD-3B BPR-1B BPR-3B BPE-BOARD-B
21B7	BPD-3 is defective in BPA-B.	BPD-3B BPC-B
21C1	The UEPO switch on the BPC B-side is defective or in the BYPASS position.	BPC-B

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
21C2	The BPC on the B-side has detected an open UEPO loop.	EPO-SWITCH BPC-B BPR-1B BPR-2B BPR-3B CBL-BPCB-EPO BPE-BOARD-B
21C3	B-side BPC detects an open room UEPO loop.	EPO-SWITCH BPC-B CBL-BPCB-EPO
21C5	BPR-3A has reported an over-current on the 350VDC bulk.	BPR-3B BPD-1B BPC-B BPD-2B BPD-3B BPR-1B BPR-2B BPE-BOARD-B
2251	DCA number one is defective.	DCA-21
2252	DCA number two is defective.	DCA-22
2253	DCA number three is defective.	DCA-23
2273	BPR-3A located in BPA-A has reported an over temperature error. Make sure that the air inlets are not blocked, that filler books are installed in empty locations, and that no heat source is located near the BPR ASM.	BPR-3A
2274	BPR-3A located in BPA-A has reported an over temperature error. Make sure that the air inlets are not blocked, that filler books are installed in empty locations, and that no heat source is located near the BPR ASM.	BPR-3B
2351	DCA number one is defective.	DCA-31
2352	DCA number two is defective.	DCA-32
2353	DCA number three is defective.	DCA-33
24A5	BPR-1B has reported an over-current on the 350VDC bulk.	BPR-1B BPD-1B BPC-B BPD-2B BPD-3B BPR-2B BPR-3B BPE-BOARD-B
2A0A	A communication fault between the BPC (BPA-A) and BPD 1A has been detected.	BPD-1A BPC-A BPE-BOARD-A
2A0B	A communication fault between the BPC (BPA-A) and BPD 2A has been detected.	BPD-2A BPC-A BPE-BOARD-A

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2A0C	A communication fault between the BPC (BPA-A) and BPD 3A has been detected.	BPD-3A BPC-A BPE-BOARD-A
2A10	A communication fault between the BPD 1A and the load on port J00 has been detected.	BPD1A-PORT-0
2A11	A communication fault between the BPD 1A and the load on port J01 has been detected.	BPD1A-PORT-1
2A12	A communication fault between the BPD 1A and the load on port J02 has been detected.	BPD1A-PORT-2
2A13	A communication fault between the BPD 1A and the load on port J03 has been detected.	BPD1A-PORT-3
2A14	A communication fault between the BPD 1A and the load on port J04 has been detected.	BPD1A-PORT-4
2A15	A communication fault between the BPD 1A and the load on port J05 has been detected.	BPD1A-PORT-5
2A16	A communication fault between the BPD 1A and the load on port J06 has been detected.	BPD1A-PORT-6
2A17	A communication fault between the BPD 1A and the load on port J07 has been detected.	BPD1A-PORT-7
2A18	A communication fault between the BPD 1A and the load on port J08 has been detected.	BPD1A-PORT-8
2A19	A communication fault between the BPD 1A and the load on port J09 has been detected.	BPD1A-PORT-9
2A20	A communication fault between the BPD 2A and the load on port J00 has been detected.	BPD2A-PORT-0
2A21	A communication fault between the BPD 2A and the load on port J01 has been detected.	BPD2A-PORT-1
2A22	A communication fault between the BPD 2A and the load on port J02 has been detected.	BPD2A-PORT-2
2A23	A communication fault between the BPD 2A and the load on port J03 has been detected.	BPD2A-PORT-3
2A24	A communication fault between the BPD 2A and the load on port J04 has been detected.	BPD2A-PORT-4

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2A25	A communication fault between the BPD 2A and the load on port J05 has been detected.	BPD2A-PORT-5
2A26	A communication fault between the BPD 2A and the load on port J06 has been detected.	BPD2A-PORT-6
2A27	A communication fault between the BPD 2A and the load on port J07 has been detected.	BPD2A-PORT-7
2A28	A communication fault between the BPD 2A and the load on port J08 has been detected.	BPD2A-PORT-8
2A29	A communication fault between the BPD 2A and the load on port J09 has been detected.	BPD2A-PORT-9
2A30	A communication fault between the BPD 3A and the load on port J00 has been detected.	BPD2A-PORT-0
2A31	A communication fault between the BPD 3A and the load on port J01 has been detected.	BPD2A-PORT-1
2A32	A communication fault between the BPD 3A and the load on port J02 has been detected.	BPD2A-PORT-2
2A33	A communication fault between the BPD 3A and the load on port J03 has been detected.	BPD2A-PORT-3
2A34	A communication fault between the BPD 3A and the load on port J04 has been detected.	BPD2A-PORT-4
2A35	A communication fault between the BPD 3A and the load on port J05 has been detected.	BPD2A-PORT-5
2A36	A communication fault between the BPD 3A and the load on port J06 has been detected.	BPD2A-PORT-6
2A37	A communication fault between the BPD 3A and the load on port J07 has been detected.	BPD2A-PORT-7
2A38	A communication fault between the BPD 3A and the load on port J08 has been detected.	BPD2A-PORT-8
2A39	A communication fault between the BPD 3A and the load on port J08 has been detected.	BPD2A-PORT-9
2A81	A communication fault between (BPA-A) BPC and (BPA-B) BPC.	BPC-A NET-BPCA-BPCB BPC-B

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2A90	An over current has been detected on 350V between BPD 1A and the load on its port J00.	BPD1A-PORT-0
2A91	An over current has been detected on 350V between BPD 1A and the load on its port J01.	BPD1A-PORT-1
2A92	An over current has been detected on 350V between BPD 1A and the load on its port J02.	BPD1A-PORT-2
2A93	An over current has been detected on 350V between BPD 1A and the load on its port J03.	BPD1A-PORT-3
2A94	An over current has been detected on 350V between BPD 1A and the load on its port J04.	BPD1A-PORT-4
2A95	An over current has been detected on 350V between BPD 1A and the load on its port J05.	BPD1A-PORT-5
2A96	An over current has been detected on 350V between BPD 1A and the load on its port J06.	BPD1A-PORT-6
2A97	An over current has been detected on 350V between BPD 1A and the load on its port J07.	BPD1A-PORT-7
2A98	An over current has been detected on 350V between BPD 1A and the load on its port J08.	BPD1A-PORT-8
2A99	An over current has been detected on 350V between BPD 1A and the load on its port J09.	BPD1A-PORT-9
2AA0	An over current has been detected on 350V between BPD 2A and the load on its port J00.	BPD2A-PORT-0
2AA1	An over current has been detected on 350V between BPD 2A and the load on its port J01.	BPD2A-PORT-1
2AA2	An over current has been detected on 350V between BPD 2A and the load on its port J02.	BPD2A-PORT-2
2AA3	An over current has been detected on 350V between BPD 2A and the load on its port J03.	BPD2A-PORT-3
2AA4	An over current has been detected on 350V between BPD 2A and the load on its port J04.	BPD2A-PORT-4
2AA5	An over current has been detected on 350V between BPD 2A and the load on its port J05.	BPD2A-PORT-5

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2AA6	An over current has been detected on 350V between BPD 2A and the load on its port J06.	BPD2A-PORT-6
2AA7	An over current has been detected on 350V between BPD 2A and the load on its port J07.	BPD2A-PORT-7
2AA8	An over current has been detected on 350V between BPD 2A and the load on its port J08.	BPD2A-PORT-8
2AA9	An over current has been detected on 350V between BPD 2A and the load on its port J08.	BPD2A-PORT-9
2AB0	An over current has been detected on 350V between BPD 3A and the load on its port J00.	BPD2A-PORT-0
2AB1	An over current has been detected on 350V between BPD 3A and the load on its port J01.	BPD2A-PORT-1
2AB2	An over current has been detected on 350V between BPD 3A and the load on its port J02.	BPD2A-PORT-2
2AB3	An over current has been detected on 350V between BPD 3A and the load on its port J03.	BPD2A-PORT-3
2AB4	An over current has been detected on 350V between BPD 3A and the load on its port J04.	BPD2A-PORT-4
2AB5	An over current has been detected on 350V between BPD 3A and the load on its port J05.	BPD2A-PORT-5
2AB6	An over current has been detected on 350V between BPD 3A and the load on its port J06.	BPD2A-PORT-6
2AB7	An over current has been detected on 350V between BPD 3A and the load on its port J07.	BPD2A-PORT-7
2AB8	An over current has been detected on 350V between BPD 3A and the load on its port J08.	BPD2A-PORT-8
2AB9	An over current has been detected on 350V between BPD 3A and the load on its port J09.	BPD2A-PORT-9
2B0A	A communication fault between the BPC (BPA-B) and BPD 1B has been detected.	BPD-1B BPC-B BPE-BOARD-B
2B0B	A communication fault between the BPC (BPA-B) and BPD 2B has been detected.	BPD-2B BPC-B BPE-BOARD-B

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2B0C	A communication fault between the BPC (BPA-B) and BPD 3B has been detected.	BPD-3B BPC-B BPE-BOARD-B
2B10	A communication fault between the BPD 1B and the load on port J00 has been detected.	BPD1B-PORT-0
2B11	A communication fault between the BPD 1B and the load on port J01 has been detected.	BPD1B-PORT-1
2B12	A communication fault between the BPD 1B and the load on port J02 has been detected.	BPD1B-PORT-2
2B13	A communication fault between the BPD 1B and the load on port J03 has been detected.	BPD1B-PORT-3
2B14	A communication fault between the BPD 1B and the load on port J04 has been detected.	BPD1B-PORT-4
2B15	A communication fault between the BPD 1B and the load on port J05 has been detected.	BPD1B-PORT-5
2B16	A communication fault between the BPD 1B and the load on port J06 has been detected.	BPD1B-PORT-6
2B17	A communication fault between the BPD 1B and the load on port J07 has been detected.	BPD1B-PORT-7
2B18	A communication fault between the BPD 1B and the load on port J08 has been detected.	BPD1B-PORT-8
2B19	A communication fault between the BPD 1B and the load on port J09 has been detected.	BPD1B-PORT-9
2B20	A communication fault between the BPD 2B and the load on port J00 has been detected.	BPD2B-PORT-0
2B21	A communication fault between the BPD 2B and the load on port J01 has been detected.	BPD2B-PORT-1
2B22	A communication fault between the BPD 2B and the load on port J02 has been detected.	BPD2B-PORT-2
2B23	A communication fault between the BPD 2B and the load on port J03 has been detected.	BPD2B-PORT-3
2B24	A communication fault between the BPD 2B and the load on port J04 has been detected.	BPD2B-PORT-4

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2B25	A communication fault between the BPD 2B and the load on port J05 has been detected.	BPD2B-PORT-5
2B26	A communication fault between the BPD 2B and the load on port J06 has been detected.	BPD2B-PORT-6
2B27	A communication fault between the BPD 2B and the load on port J07 has been detected.	BPD2B-PORT-7
2B28	A communication fault between the BPD 2B and the load on port J08 has been detected.	BPD2B-PORT-8
2B29	A communication fault between the BPD 2B and the load on port J09 has been detected.	BPD2B-PORT-9
2B30	A communication fault between the BPD 3B and the load on port J00 has been detected.	BPD2B-PORT-0
2B31	A communication fault between the BPD 3B and the load on port J01 has been detected.	BPD2B-PORT-1
2B32	A communication fault between the BPD 3B and the load on port J02 has been detected.	BPD2B-PORT-2
2B33	A communication fault between the BPD 3B and the load on port J03 has been detected.	BPD2B-PORT-3
2B34	A communication fault between the BPD 3B and the load on port J04 has been detected.	BPD2B-PORT-4
2B35	A communication fault between the BPD 3B and the load on port J05 has been detected.	BPD2B-PORT-5
2B36	A communication fault between the BPD 3B and the load on port J06 has been detected.	BPD2B-PORT-6
2B37	A communication fault between the BPD 3B and the load on port J07 has been detected.	BPD2B-PORT-7
2B38	A communication fault between the BPD 3B and the load on port J08 has been detected.	BPD2B-PORT-8
2B39	A communication fault between the BPD 3B and the load on port J08 has been detected.	BPD2B-PORT-9
2B81	A communication fault between (BPA-B) BPC and (BPA-A) BPC.	BPC-B NET-BPCB-BPCA BPC-A

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2B90	An over current has been detected on 350V between BPD 1B and the load on its port J00.	BPD1B-PORT-0
2B91	An over current has been detected on 350V between BPD 1B and the load on its port J01.	BPD1B-PORT-1
2B92	An over current has been detected on 350V between BPD 1B and the load on its port J02.	BPD1B-PORT-2
2B93	An over current has been detected on 350V between BPD 1B and the load on its port J03.	BPD1B-PORT-3
2B94	An over current has been detected on 350V between BPD 1B and the load on its port J04.	BPD1B-PORT-4
2B95	An over current has been detected on 350V between BPD 1B and the load on its port J05.	BPD1B-PORT-5
2B96	An over current has been detected on 350V between BPD 1B and the load on its port J06.	BPD1B-PORT-6
2B97	An over current has been detected on 350V between BPD 1B and the load on its port J07.	BPD1B-PORT-7
2B98	An over current has been detected on 350V between BPD 1B and the load on its port J08.	BPD1B-PORT-8
2B99	An over current has been detected on 350V between BPD 1B and the load on its port J09.	BPD1B-PORT-9
2BA0	An over current has been detected on 350V between BPD 2B and the load on its port J00.	BPD2B-PORT-0
2BA1	An over current has been detected on 350V between BPD 2B and the load on its port J01.	BPD2B-PORT-1
2BA2	An over current has been detected on 350V between BPD 2B and the load on its port J02.	BPD2B-PORT-2
2BA3	An over current has been detected on 350V between BPD 2B and the load on its port J03.	BPD2B-PORT-3
2BA4	An over current has been detected on 350V between BPD 2B and the load on its port J04.	BPD2B-PORT-4
2BA5	An over current has been detected on 350V between BPD 2B and the load on its port J05.	BPD2B-PORT-5

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2BA6	An over current has been detected on 350V between BPD 2B and the load on its port J06.	BPD2B-PORT-6
2BA7	An over current has been detected on 350V between BPD 2B and the load on its port J07.	BPD2B-PORT-7
2BA8	An over current has been detected on 350V between BPD 2B and the load on its port J08.	BPD2B-PORT-8
2BA9	An over current has been detected on 350V between BPD 2B and the load on its port J08.	BPD2B-PORT-9
2BB0	An over current has been detected on 350V between BPD 3B and the load on its port J00.	BPD2B-PORT-0
2BB1	An over current has been detected on 350V between BPD 3B and the load on its port J01.	BPD2B-PORT-1
2BB2	An over current has been detected on 350V between BPD 3B and the load on its port J02.	BPD2B-PORT-2
2BB3	An over current has been detected on 350V between BPD 3B and the load on its port J03.	BPD2B-PORT-3
2BB4	An over current has been detected on 350V between BPD 3B and the load on its port J04.	BPD2B-PORT-4
2BB5	An over current has been detected on 350V between BPD 3A and the load on its port J05.	BPD2B-PORT-5
2BB6	An over current has been detected on 350V between BPD 3B and the load on its port J06.	BPD2B-PORT-6
2BB7	An over current has been detected on 350V between BPD 3B and the load on its port J07.	BPD2B-PORT-7
2BB8	An over current has been detected on 350V between BPD 3B and the load on its port J08.	BPD2B-PORT-8
2BB9	An over current has been detected on 350V between BPD 3B and the load on its port J09.	BPD2B-PORT-9
3000	BPC A side has detected unmatched FRUs in the same CageID.	ANY-SLOT
3005	BPC A side has detected miscabling to DCA port.	ANY-SLOT
3006	BPC A side detects cabling order to a DCA different than to the other DCAs (This BPA sides view).	ANY-SLOT

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3007	BPC A side detects cabling order to a MDA different than to the other MDAs (This BPA sides view).	ANY-SLOT
3014	BPC-A side detects that IBF-1A is defective.	IBF-1A BPR-1A CBL-IBF1A BPC-A BPE-BOARD-A
3015	BPC-B side detects that IBF-1B is defective.	IBF-1B BPR-1B CBL-IBF1B BPC-B BPE-BOARD-B
3018	BPC-A side detects that IBF-1A is disconnected.	BPR-1A IBF-1A CBL-IBF1A BPC-A BPE-BOARD-A
3019	BPC-B side detects that IBF-1B is disconnected.	BPR-1B IBF-1B CBL-IBF1B BPC-B BPE-BOARD-B
301A	BPA-A side detects that IBF-1A has dropped below a usable level.	IBF-1A BPR-1A BPC-A BPE-BOARD-A
301B	BPA-B side detects that IBF-1B has dropped below a usable level.	IBF-1B BPR-1B BPC-B BPE-BOARD-B
301C	BPA-A side detects that IBF-1A has been charged to normal capacity.	IBF-1A
301D	BPA-B side detects that IBF-1B has been charged to normal capacity.	IBF-1B
3090	BPC B side has detected unmatched FRUs in the same CageID.	ANY-SLOT
3095	BPC B side has detected miscabling to DCA port.	ANY-SLOT
3096	BPC B side detects cabling order to a DCA different than to the other DCAs (This BPA sides view).	ANY-SLOT
3097	BPC A side detects cabling order to a MDA different than to the other MDAs (This BPA sides view).	ANY-SLOT
3110	BPC-A side does not detect IBF-2A or IBF CB open.	BPR-2A IBF-2A CBL-IBF2A BPC-A BPE-BOARD-A

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3111	BPC-B side does not detect IBF-2B or IBF CB open.	BPR-2B IBF-2B CBL-IBF2B BPC-B BPE-BOARD-B
3114	BPC-A side detects that IBF-2A is defective.	IBF-2A BPR-2A CBL-IBF2A BPC-A BPE-BOARD-A
3115	BPC-B side detects that IBF-2B is defective.	IBF-2B BPR-2B CBL-IBF2B BPC-B BPE-BOARD-B
3118	BPC-A side detects that IBF-2A is disconnected.	BPR-2A IBF-2A CBL-IBF2A BPC-A BPE-BOARD-A
3119	BPC-B side detects that IBF-2B is disconnected.	BPR-2B IBF-2B CBL-IBF2B BPC-B BPE-BOARD-B
311A	BPA-A side detects that IBF-2A has dropped below a usable level.	IBF-2A BPR-2A BPC-A BPE-BOARD-A
311B	BPA-A side detects that IBF-2A has dropped below a usable level.	IBF-2B BPR-2B BPC-B BPE-BOARD-B
311C	BPA-A side detects that IBF-2A has been charged to normal capacity.	IBF-2A
311D	BPA-B side detects that IBF-2B has been charged to normal capacity.	IBF-2B
3210	BPC-A side does not detect IBF-3A or IBF CB open.	BPR-3A IBF-3A CBL-IBF3A BPC-A BPE-BOARD-A
3211	BPC-B side does not detect IBF-3B or IBF CB open.	BPR-3B IBF-3B CBL-IBF3B BPC-B BPE-BOARD-B
3214	BPC-A side detects that IBF-3A is defective.	IBF-3A BPR-3A CBL-IBF3A BPC-A BPE-BOARD-A

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3215	BPC-B side detects that IBF-3B is defective.	IBF-3B BPR-3B CBL-IBF3B BPC-B BPE-BOARD-B
3218	BPC-A side detects that IBF-3A is disconnected.	BPR-3A IBF-3A CBL-IBF3A BPC-A BPE-BOARD-A
3219	BPC-B side detects that IBF-3B is disconnected.	BPR-3B IBF-3B CBL-IBF3B BPC-B BPE-BOARD-B
321A	BPA-A side detects that IBF-3A has dropped below a usable level.	IBF-3A BPR-3A BPC-A BPE-BOARD-A
321B	BPA-B side detects that IBF-3B has dropped below a usable level.	IBF-3B BPR-3B BPC-B BPE-BOARD-B
321C	BPA-A side detects that IBF-3A has been charged to normal capacity.	IBF-3A
321D	BPA-B side detects that IBF-3B has been charged to normal capacity.	IBF-3B
4001	The Auto-Code-Download (ACDL) of the power subsystem encountered an error.	
4002	The frame MTMS was not resolved by the time the BPC reached HMC standby. Contact your next level of support for assistance.	
4003	The BPC found duplicate Mailbox IP addresses on Network A. Contact your next level of support for assistance.	
4004	The BPC found duplicate Mailbox IP addresses on Network B. Contact your next level of support for assistance.	
4005	A DHCP address was not assigned on Network A. Contact your next level of support for assistance.	
8130	CAGE P/T Fru recovery.	
8131	The UEPO switch has been used-This is an informational SRC.	
8132	A send secure vpd command was received - Informational SRC.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
8133	A TMS (60) was received - Informational SRC.	
8134	This contains an ACDL log - Informational SRC.	
8135	There has been an internal bulk power software error.	

(1750, 2105, 2107) Disk unit reference codes

1. If the error is reported on the control panel, the unit reference code is characters 5 through 8 of the top 16 character line of function 11. If the error is reported on the console, the unit reference code is the 4 rightmost characters of word 1.
2. Find the unit reference code in the following table.

For more on the Failing Item column entries, see Table 2. Disk unit failing items details, which follows the reference code table below.

Table 1. (1750, 2105, 2107) Disk unit reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3002	Addressed device is not responding	FCPORT FCDEV FCIOA FCINTF OPT_CLN
3010	Disk device returned wrong response to IOP	FCDEV FCIOA OPT_CLN
3020	Storage subsystem configuration error If an MES is being installed, verify the configuration.	FCDEV FCIOA OPT_CLN
3029	A device replacement has occurred No action required. This reference code is logged for information only.	
3100	Fibre Channel interface error occurred	FCINTF FCDEV FCIOA OPT_CLN
3109	IOP timed out a disk command	FCDEV FCINTF FCIOA OPT_CLN
34FF	Format in progress The device indicated that a format is in progress. When the format is complete, the device should be useable. No action is required. This reference code is logged for information only.	
FFF3	Disk media format bad	FCDEV
FFF4	Disk device problem	FCDEV
FFF5	Disk sector read error	FCDEV

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
FFF6	Disk device detected recoverable error A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code. For more information, see Using the Service Action Log.	FCDEV
FFFA	Disk device wrong response was recovered by the IOP A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code. For more information, see Using the Service Action Log.	FCDEV FCIOA OPT_CLN
FFFE	Temporary Fibre Channel interface error A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code. For more information, see Using the Service Action Log.	FCINTF FCDEV FCIOA OPT_CLN

Table 2. Disk Unit failing items details

Failing Item	Description	Document Description
FCDEV	Fibre Channel device	See the service documentation for instructions.
FCINTF	Fibre Channel interface	See the service documentation for instructions.
FCIOA	Fibre Channel IOA	See the service documentation for instructions.
FCPORT	Port not operational	See the service documentation for instructions.
IOP	I/O processor card	See the service documentation for instructions.
OPT_CLN	Fiber optic cleaning kit	See the service documentation for instructions.

(180A, 283C, 283D, 283F, 28B9, 28CB, 28CC, 28D2, 28DB, 28DF, 506D, 506E) Device backplane reference codes

1. If the error is reported on the control panel, the unit reference code is characters 5 through 8 of the top 16 character line of function 11. If the error is reported on the console, the unit reference code is the 4 rightmost characters of word 1.
2. Find the unit reference code in the following table.

Attention: The 673x is a read cache. Perform all actions required for 673x as a disk drive and logic card except where separate 673x cache instructions are provided.

For more on the Failing Item column entries, see Table 2. Device backplane failing items details, which follows the reference code table below.

Table 1. (180A, 283C, 283D, 283F, 28B9, 28CB, 28CC, 28D2, 28DB, 28DF, 506D, 506E) Device backplane reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1511	A non-fatal error occurred on power supply 1	DISKPWR DISKFAN FI01106 DEVBPLN

180A, 283C, 283D, 283F, 28B9, 28CB, 28CC, 28D2, 28DB, 28DF, 506D, 506E

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1515	A fatal error occurred on power supply 1	DISKPWR DISKFAN FI01106 DEVBPLN
1521	A non-fatal error occurred on power supply 2	DISKPWR DISKFAN FI01106 DEVBPLN
1525	A fatal error occurred on power supply 2	DISKPWR DISKFAN FI01106 DEVBPLN
3002	Addressed device backplane failed to respond to selection	DEVBPLN STORIOA FI01140 FI01106
3109	I/O adapter timed out a device backplane command	DEVBPLN STORIOA FI01140 FI01106
7611	A fatal error occurred on redundant fan 1	DISKFAN
7614	A fatal error occurred on fan 1	DISKFAN
7621	A fatal error occurred on redundant fan 2	DISKFAN
7624	A fatal error occurred on fan 2	DISKFAN
7631	A fatal error occurred on redundant fan 3	DISKFAN
7634	A fatal error occurred on fan 3	DISKFAN
8401	Removable media power fault	DEVBPLN
8404	System log entry only, no service action required	
FFF4	Device backplane problem	DEVBPLN STORIOA FI01140 FI01106

Table 2. Device backplane failing items details

Failing Item	Description	Document Description
08F5352	Token-ring network adapter	Repair and Parts; removal and installation procedures
08F5361	Communications input/output processor card	Repair and Parts; removal and installation procedures
17G2504	Tape Unit	Repair and Parts; removal and installation procedures
21F1511	Internal power cable	Repair and Parts; removal and installation procedures
21F1512	Internal power cable	Repair and Parts; removal and installation procedures
21F1512	Internal power cable	Repair and Parts; removal and installation procedures

Failing Item	Description	Document Description
21F1513	Internal signal cable	Repair and Parts; removal and installation procedures
21F1514	Internal power cable	Repair and Parts; removal and installation procedures
21F1519	Internal signal cable	Repair and Parts; removal and installation procedures
21F1530	Card enclosure	Repair and Parts; removal and installation procedures
21F1687	Diskette adapter card	Repair and Parts; removal and installation procedures
21F1688	Multiple function I/O processor card	Repair and Parts; removal and installation procedures
21F1689	Multiple function I/O processor card	Repair and Parts; removal and installation procedures
21F2070	Bus cable	Repair and Parts; removal and installation procedures
21F3986	Tape I/O processor card	Repair and Parts; removal and installation procedures
21F4383	Multiple function I/O processor card	Repair and Parts; removal and installation procedures
21F4493	Ethernet controller card	Repair and Parts; removal and installation procedures
21F4579	Disk drive logic card	Repair and Parts; removal and installation procedures
21F4863	Magnetic storage device IOP card	Repair and Parts; removal and installation procedures
21F4867	Communication adapter	Repair and Parts; removal and installation procedures
21F4868	Communication adapter	Repair and Parts; removal and installation procedures
21F4869	Token-ring controller card	Repair and Parts; removal and installation procedures
21F4882	Diskette adapter card	Repair and Parts; removal and installation procedures
21F4882	Diskette adapter card	Repair and Parts; removal and installation procedures
21F5620	Disk unit power regulator	Repair and Parts; removal and installation procedures
21F5620	Disk unit power regulator	Repair and Parts; removal and installation procedures
21F5650	AC Module	Repair and Parts; removal and installation procedures
21F5680	AC Module	Repair and Parts; removal and installation procedures
21F5772	Control panel	Repair and Parts; removal and installation procedures
21F5774	External signal cable	Repair and Parts; removal and installation procedures

180A, 283C, 283D, 283F, 28B9, 28CB, 28CC, 28D2, 28DB, 28DF, 506D, 506E

Failing Item	Description	Document Description
21F5774	Cable assembly	Repair and Parts; removal and installation procedures
21F5861	Tape Unit	Repair and Parts; removal and installation procedures
21F8566	Tape Unit	Repair and Parts; removal and installation procedures
21F8633	Tape Unit	Repair and Parts; removal and installation procedures
21F8719	Tape Unit	Repair and Parts; removal and installation procedures
21F8872	Cable Carrier	Repair and Parts; removal and installation procedures
21F8890	D/SE Module	Repair and Parts; removal and installation procedures
21F9208	ISDN adapter card	Repair and Parts; removal and installation procedures
21F9215	Power regulator card	Repair and Parts; removal and installation procedures
21F9586	Cable assembly	Repair and Parts; removal and installation procedures
21F9907	Cable assembly	Repair and Parts; removal and installation procedures
21F9937	Cable assembly	Repair and Parts; removal and installation procedures
21F9951	Tape Unit	Repair and Parts; removal and installation procedures
21F9987	Tape unit IOP card	Repair and Parts; removal and installation procedures
2452557	Fan	9346 Service Guide; Installation and Removal, SY31-0688
26F5028	Communication adapter	Repair and Parts; removal and installation procedures
375892	Power cord; U.S.A., Asia-Pacific group, Americas group	
4234002	Test diskette (8 inch)	System operation information
46F4115	Ethernet network adapter card	Repair and Parts; removal and installation procedures
46F4239	Token-ring network adapter	Repair and Parts; removal and installation procedures
55F5199	Disk drive logic card	Repair and Parts; removal and installation procedures
55F5209	Disk drive and logic card	Repair and Parts; Recovery Procedures
59X4718	Communications input/output processor card	Repair and Parts; removal and installation procedures
59X4723	Tape unit IOP card	Repair and Parts; removal and installation procedures
59X4723	Tape I/O processor card	Repair and Parts; removal and installation procedures

Failing Item	Description	Document Description
59X4723	Token-ring network adapter	Repair and Parts; removal and installation procedures
59X4819	Multiple function I/O processor card	Repair and Parts; removal and installation procedures
6369759	Test diskette (5-1/4 inch)	System operation information
6369881	Diskette unit	Repair and Parts; removal and installation procedures
6462385	Power cord; Europe, Mid-East, Asia	
6495268	External signal cable	9346 Service Guide; Installation and Removal, SY31-0688
72X5631	Terminating plug	Repair and Parts; removal and installation procedures
72X5631	Terminating plug	9346 Service Guide; Installation and Removal, SY31-0688
72X5631	Terminating plug	Repair and Parts; removal and installation procedures
72X6361	Diskette unit	Repair and Parts; removal and installation procedures
72X6374	Work station attachment	Repair and Parts; removal and installation procedures
72X6385	Magnetic storage device IOP card	Repair and Parts; removal and installation procedures
72X6386	Diskette adapter card	Repair and Parts; removal and installation procedures
72X6387	Communications I/O processor card	Repair and Parts; removal and installation procedures
72X6388	Communications adapter card	Repair and Parts; removal and installation procedures
72X6389	Multiple interface adapter	Repair and Parts; removal and installation procedures
72X6390	Communications adapter card	Repair and Parts; removal and installation procedures
72X6391	Token-ring network adapter	Repair and Parts; removal and installation procedures
73F8987	Disk drive and logic card	Repair and Parts; Recovery Procedures
73F8994	Disk drive logic card	Repair and Parts; removal and installation procedures
73F9138	Planar board	Repair and Parts; removal and installation procedures
73F9139	Planar board	Repair and Parts; removal and installation procedures
73F9166	Planar board	Repair and Parts; removal and installation procedures
73F9193	Power regulator card	Repair and Parts; removal and installation procedures
73F9232	Cable assembly	Repair and Parts; removal and installation procedures

180A, 283C, 283D, 283F, 28B9, 28CB, 28CC, 28D2, 28DB, 28DF, 506D, 506E

Failing Item	Description	Document Description
73F9244	Disk unit power regulator	Repair and Parts; removal and installation procedures
73F9267	ASCII work station IOP card	Repair and Parts; removal and installation procedures
73F9290	Control panel	Repair and Parts; removal and installation procedures
73F9290	Control panel	Repair and Parts; removal and installation procedures
73F9345	Tape Unit	Repair and Parts; removal and installation procedures
73F9393	Tape Unit	Repair and Parts; removal and installation procedures
74F1541	Card enclosure	Repair and Parts; removal and installation procedures
74F1542	Card enclosure	Repair and Parts; removal and installation procedures
74F1543	Card enclosure	Repair and Parts; removal and installation procedures
74F1544	Card enclosure	Repair and Parts; removal and installation procedures
74F1649	Tape Unit	Repair and Parts; removal and installation procedures
74F1760	DC Bulk Module	Repair and Parts; removal and installation procedures
74F2201	Multiple function I/O processor card	Repair and Parts; removal and installation procedures
74F2232	Multiple function I/O processor card	Repair and Parts; removal and installation procedures
79X3795	Terminating plug	Repair and Parts; removal and installation procedures
8266352	Power supply	9346 Service Guide; Installation and Removal, SY31-0688
85F7295	Multiple function I/O processor card	Repair and Parts; removal and installation procedures
85F7305	Multiple function I/O processor card	Repair and Parts; removal and installation procedures
85F7405	Base power supply	Repair and Parts; removal and installation procedures
85F7418	Cable assembly	Repair and Parts; removal and installation procedures
85F7646	Magnetic storage device IOP card	Repair and Parts; removal and installation procedures
85F7846	Terminating plug	Repair and Parts; removal and installation procedures
85F9785	Control panel	Repair and Parts; removal and installation procedures
85F9840	Internal signal cable	Repair and Parts; removal and installation procedures

Failing Item	Description	Document Description
85F9845	Internal power cable	Repair and Parts; removal and installation procedures
92X3030	Feature power supply	Repair and Parts; removal and installation procedures
92X3080	Disk unit power regulator	Repair and Parts; removal and installation procedures
92X4041	Diskette unit	Repair and Parts; removal and installation procedures
92X4044	Cable assembly	Repair and Parts; removal and installation procedures
92X4091	Cable assembly	Repair and Parts; removal and installation procedures
92X4143	Planar board	Repair and Parts; removal and installation procedures
92X6551	Planar board	Repair and Parts; removal and installation procedures
92X7512	Flex cable	9346 Service Guide; Installation and Removal, SY31-0688
92X7514	Internal tape unit signal cable	9346 Service Guide; Installation and Removal, SY31-0688
92X7515	Internal signal cable	9346 Service Guide; Installation and Removal, SY31-0688
92X7516	Internal power cable	9346 Service Guide; Installation and Removal, SY31-0688
93X0901	Disk drive logic card	Repair and Parts; removal and installation procedures
93X0911	Disk drive and logic card	Repair and Parts; Recovery Procedures
93X2520	Disk drive and logic card	Repair and Parts; Recovery Procedures
93X2701	I/O processor card	Repair and Parts; removal and installation procedures
93X2730	9346 IOP card	Repair and Parts; removal and installation procedures
93X2777	I/O processor card	Repair and Parts; removal and installation procedures
A0B00E1	Licensed Internal Code for programmable tape unit	Service Functions; APAR or LICTR
AJDG301	Vertical Licensed Internal Code	Service Functions; APAR or LICTR
AJEDA00	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
AJEDA00	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
AJEH901	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
AJGJQ01	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
AJSLC01	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
AJSLC01	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
BACKPLN	Card enclosure or backplane	See the service documentation for instructions.
COMPRES1	Compressed device and compression IOA are not compatible	See the service documentation for instructions.

180A, 283C, 283D, 283F, 28B9, 28CB, 28CC, 28D2, 28DB, 28DF, 506D, 506E

Failing Item	Description	Document Description
DEVBPLN	Device backplane	See the service documentation for instructions.
DEVTERM	Device terminator	See the service documentation for instructions.
DISKDRV	Disk drive and logic card	See the service documentation for instructions.
DISKDRV	Disk drive and logic card	See the service documentation for instructions.
DISKDRV	Disk drive and logic card	See the service documentation for instructions.
DISKDRV	Disk drive and logic card	See the service documentation for instructions.
DISKDRV	Disk drive and logic card	See the service documentation for instructions.
DISKDRV	Disk drive and logic card	See the service documentation for instructions.
DISKDRV	Disk drive and logic card	See the service documentation for instructions.
DISKDRV	Disk drive and logic card	See the service documentation for instructions.
DISKFAN	Fan assembly	See the service documentation for instructions.
DISKLC	Disk drive logic card	See the service documentation for instructions.
DISKLC	Disk drive logic card	See the service documentation for instructions.
DISKLC	Disk drive logic card	See the service documentation for instructions.
DISKLC	Disk drive logic card	See the service documentation for instructions.
DISKLC	Disk drive logic card	See the service documentation for instructions.
DISKLC	Disk drive logic card	See the service documentation for instructions.
DISKLC	Disk drive logic card	See the service documentation for instructions.
DISKLC	Disk drive logic card	See the service documentation for instructions.
DISKPWR	Power Supply	See the service documentation for instructions.
DISKTRY	Disk unit tray	See the service documentation for instructions.
DISKTRY	Disk unit tray	See the service documentation for instructions.
DISKTRY	Disk unit tray	See the service documentation for instructions.
DISKTRY	Disk unit tray	See the service documentation for instructions.
DISKTRY	Disk unit tray	See the service documentation for instructions.
DISKTRY	Disk unit tray	See the service documentation for instructions.
DISKTRY	Disk unit tray	See the service documentation for instructions.
DISKTRY	Disk unit tray	See the service documentation for instructions.
MSEDMED	Defective diskette	System operation information
MSETCAR	Defective tape or damaged cartridge	System operation information
MSETFOR	The data format is incorrect; the tape cannot be read	System operation information
MSETMED	Defective removable media	System operation information
STORIOA	Storage I/O adapter	See the service documentation for instructions.
SVCDOCS	Customer engineer directed to system problem analysis	See the service documentation for instructions.
USEUSER	System Operator/User	System operation information

(2058) Reference codes

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (2058) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B990	I/O adapter hardware error detected	IOA FI00130 IOP MA_BRDG

Table 2. Failing items details

Failing Item	Description	Document Description
IOA	I/O adapter card	See the service documentation for instructions.
IOP	I/O processor card	See the service documentation for instructions.
MA_BRDG	Multi-adapter bridge	See the service documentation for instructions.

(20A8, 20Dx, 20EE, 20FF, 2102, 220x, 25Ax, 25Cx, 2602, 2803, 2B2x) Model 185 and A50 reference (error) codes

Use the following tables to find the system reference code (SRC) for your model 185 or A50:

- 20A8 xxxx: The firmware could not perform a network boot of the system
- 20Dx xxxx: A hardware problem caused a firmware failure, or firmware detected a hardware failure
- 20EE xxxx: One of the following problems might have occurred:
 - The system detected a problem in the firmware
 - The system did not find an operating system on the devices specified in the boot list
 - The system detected a problem in the com port settings
 - The system encountered a problem when installing the firmware image
- 20FF xxxx: The system detected a problem when the firmware was collecting VPD
- 2102 xxxx: The system detected a problem with a USB-attached CD-ROM drive
- 220x xxxx: The system detected a failure in a communications adapter
- 25Ax xxxx: The system encountered failures because of a problem in NVRAM
- 25Cx xxxx: The system detected a problem in one or more memory DIMMs.
- 2602 xxxx: The system detected a problem with the microcode on a PCI adapter
- 2803 xxxx: The system detected a problem with the time-of-day clock
- 2B2x xxxx: The system encountered a hardware failure in a processor

Table 1. (20A8) Model 185 and A50 reference (error) codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
20A80000	Insufficient information to boot. Verify that the network addresses on the server and gateway are correct.	
20A80001	Client IP address is already in use by another network device. Verify that the network addresses on the server and gateway are correct.	
20A80002	Cannot get gateway IP address. Verify that the network addresses on the server and gateway are correct.	

20A8, 20Dx, 20EE, 20FF, 2102, 2200, 25Ax, 25Cx, 2602, 2803, 2B2x

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
20A80003	Cannot get server hardware address. Verify that the network addresses on the server and gateway are correct.	
20A80004	Bootp failed. Do the following: 1. Verify that the bootp server is configured correctly for this client. 2. Check the network connections, then retry the operation.	
20A80005	File transmission (TFTP) failed. Do the following: 1. Verify that the bootp server is configured correctly for this client. 2. Check the network connections, then retry the operation.	
20A80006	Boot image too large. Do the following: 1. Verify that the bootp server is configured correctly for this client. 2. Check the network connections, then retry the operation.	

Table 2. (20Dx) Model 185 and A50 reference (error) codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
20D0000F	Self-test failed on device. The error or location code information may not be available. Do the following: 1. If a location code is specified, replace the device at that location. 2. Replace the system backplane.	SYSBKP2
20D00010	Selftest failed on device. Cannot locate package. Do the following: 1. If a location code is reported with the error, replace the device at that location code. 2. Check for system firmware updates, and apply if available. 3. Replace the system backplane.	SYSBKP2
20D00011	RTAS attempt to allocate memory failed. Do the following: 1. Check for system firmware updates, and apply if available. 2. Replace the system backplane.	SYSBKP2
20D008xx	Failure to access VPD data, where xx is: xx Description ----- 0E, 0F Machine type or model 10, 11 System serial number 16, 17 Universal un	SYSBKP2

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
20D00900	Failed to generate universal unique ID (UUID) value. Do the following: <ol style="list-style-type: none"> 1. Replace the memory DIMMs in the system. 2. Replace the system backplane. 	SYSBKP2
20D00901	Failed to communicate with the BMC. Replace the system backplane.	SYSBKP2
20D00902	The system is booting from the permanent (B) firmware side. If the system was already booting from the permanent (B) side, this is an informational message. If it was not, it indicates that the system was unable to boot from the temporary (A) firmware side. Do the following: <ol style="list-style-type: none"> 1. Follow the operating system procedure to reject the firmware update. 2. Reinstall the latest system firmware. 3. If the problem persists, replace the system backplane. 	SYSBKP2
20D00903	The firmware was not able to find the /openprom package. Do the following: <ol style="list-style-type: none"> 1. Check for system firmware updates and apply if available. 2. Replace the system backplane. 	SYSBKP2
20D10004	Failed to locate BMC device tree node. Do the following: <ol style="list-style-type: none"> 1. Check for system firmware updates, and apply if available. 2. If the problem persists, replace the system backplane. 	SYSBKP2
20D10005	Failed to reboot system. Do the following: <ol style="list-style-type: none"> 1. Check for system firmware updates, and apply if available. 2. If the problem persists, replace the system backplane. 	SYSBKP2
20D10006	Failed to reboot system. Do the following: <ol style="list-style-type: none"> 1. Check for system firmware updates, and apply if available. 2. If the problem persists, replace the system backplane. 	SYSBKP2
20D10007	Firmware error before stdout ready. Do the following: <ol style="list-style-type: none"> 1. Check for system firmware updates, and apply if available. 2. If the problem persists, replace the system backplane. 	SYSBKP2

20A8, 20Dx, 20EE, 20FF, 2102, 2200, 25Ax, 25Cx, 2602, 2803, 2B2x

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
20D1000A	Failed to send boot failed message to the BMC. Do the following: <ol style="list-style-type: none"> 1. Check for system firmware updates, and apply if available. 2. If the problem persists, replace the system backplane. 	SYSBKP2
20D10010	Stack underflow from fiber channel adapter. Do the following: <ol style="list-style-type: none"> 1. Check for microcode updates for the fiber channel adapter, and apply if available. 2. Check for system firmware updates, and apply if available. 3. If the problem persists, replace the system backplane. 	SYSBKP2
20D10011	Failed to set the watchdog timer in the base motherboard controller. Do the following: <ol style="list-style-type: none"> 1. Check for system firmware updates, and apply if available. 2. If the problem persists, contact your next level of support. 	SYSBKP2

Table 3. (20EE) Model 185 and A50 reference (error) codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
20EE000A	Reserved Contact your next level of support for assistance.	NEXTLVL
20EE000B	The system was not able to find an operating system on the devices in the boot list. Verify that the boot list contains at least one device with a valid operating system boot image.	
20EE000F	Unable to find the package node. Do the following: <ol style="list-style-type: none"> 1. Check for system firmware updates, and apply if available. 2. If the problem persists, replace the system backplane. 	SYSBKP2
20EE0010	Unable to run the root vpd method. Do the following: <ol style="list-style-type: none"> 1. Check for system firmware updates, and apply if available. 2. If the problem persists, replace the system backplane. 	SYSBKP2

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
20EE0011	Unable to execute the vpd method. Do the following: <ol style="list-style-type: none"> 1. Check for system firmware updates, and apply if available. 2. If the problem persists, replace the system backplane. 	SYSBKP2
20EE0012	Unable to execute the mem-dimm-vpd method. Do the following: <ol style="list-style-type: none"> 1. Check for system firmware updates, and apply if available. 2. If the problem persists, replace the system backplane. 	SYSBKP2
20EE0015	Failed to read VPD boot path field value. Do the following: <ol style="list-style-type: none"> 1. Verify that the boot list is correct. 2. Check for system firmware updates, and apply if available. 3. If the problem persists, replace the system backplane. 	SYSBKP2
20EE0016	Failed to update VPD with the new boot path field value. Do the following: <ol style="list-style-type: none"> 1. Verify that the boot list is correct. 2. Check for system firmware updates, and apply if available. 3. If the problem persists, replace the system backplane. 	SYSBKP2
20EE0020	The environment variable boot-device exceeds the allowed character limit. Do the following: <ol style="list-style-type: none"> 1. Verify that the boot list is correct. 2. Check for system firmware updates, and apply if available. 3. If the problem persists, replace the system backplane. 	SYSBKP2
20EE0021	The environment variable boot-device contained more than seven entries. Do the following: <ol style="list-style-type: none"> 1. Verify that the boot list is correct. 2. Check for system firmware updates, and apply if available. 3. If the problem persists, replace the system backplane. 	SYSBKP2
20EE0022	The environment variable boot-device contained an entry that exceeded 255 characters in length. Do the following: <ol style="list-style-type: none"> 1. Verify that the boot list is correct. 2. Check for system firmware updates, and apply if available. 3. If the problem persists, replace the system backplane. 	SYSBKP2

20A8, 20Dx, 20EE, 20FF, 2102, 2200, 25Ax, 25Cx, 2602, 2803, 2B2x

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
20EE0100	<p>Fcode resident on an I/O adapter is not supported on this system. This error code only affects boot-time operation, not the functionality of the adapter under the operating system.</p> <p>Informational message. The Fcode driver of the adapter is not supported on this system. A compatible driver may be produced in the future, but does not guarantee one. Additional information may be available from your next level of support.</p>	
20EE0101	<p>The baud rate specified for the com port is invalid. Do the following:</p> <ol style="list-style-type: none"> 1. Use the System Management Services (SMS) menus to check the baud rate. Reset it to a valid value, if necessary. 2. Check for system firmware updates, and apply if available. 3. Replace the system backplane. 	SYSBKP2
20EE0102	<p>An invalid number of data bits was specified for the com port. Do the following:</p> <ol style="list-style-type: none"> 1. Use the SMS menus to check the data bit setting. Reset it to a valid value, if necessary. 2. Check for system firmware updates, and apply if available. 3. Replace the system backplane. 	SYSBKP2
20EE0103	<p>An invalid number of stop bits was specified for the com port. do the following:</p> <ol style="list-style-type: none"> 1. Use the SMS menus to check the stop bit setting. Reset it to a valid value, if necessary. 2. Check for system firmware updates, and apply if available. 3. Replace the system backplane. 	SYSBKP2
20EE0104	<p>An invalid parity setting was specified for the com port. Do the following:</p> <ol style="list-style-type: none"> 1. Use the SMS menus to check the parity setting. Reset it to a valid value, if necessary. 2. Check for system firmware updates, and apply if available. 3. Replace the system backplane. 	SYSBKP2
20EE0105	<p>An invalid handshake setting was specified for the com port. Do the following:</p> <ol style="list-style-type: none"> 1. Use the SMS menus to check the handshake setting. Reset it to a valid value, if necessary. 2. Check for system firmware updates, and apply if available. 3. Replace the system backplane. 	SYSBKP2

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
20EE0200	Installing an image to the permanent side is not allowed. Do the following: <ol style="list-style-type: none"> 1. Boot from the temporary side. 2. Install the firmware. <p>Note: If you are not able to boot from the temp side, perform the system firmware rejection function in the operating system, then attempt to install the latest firmware.</p>	
20EE0201	The format of the firmware installation image is not correct. Install the firmware using a known good image.	
20EE0210	Installing system firmware failed; the firmware may be corrupted. Install the firmware using a known good image. Note: If the system firmware is corrupted, perform the system firmware rejection function, then attempt to install the firmware again.	
20EE0220	Installing the system firmware failed; the firmware may be corrupted. Install the firmware using a known good image. Note: If the system firmware is corrupted, perform the system firmware rejection function, then attempt to install the firmware again.	

Table 4. (20FF) Model 185 and A50 reference (error) codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
20FF0001	Problem with VPD. Do the following: <ol style="list-style-type: none"> 1. Replace the part indicated by the location code. 2. If no location code is specified, replace the system backplane. 	SYSBKP2

Table 5. (2102) Model 185 and A50 reference (error) codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
21020010	USB CD-ROM remained busy longer than the time allowed. Do the following: <ol style="list-style-type: none"> 1. Retry the operation. 2. Check for system firmware updates, and apply if available. 3. Replace the USB CD-ROM drive. 4. Replace the system backplane. 	SYSBKP2

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
21020011	<p>USB CD-ROM: execution of ATA/ATAPI command was not completed within the time allowed. Do the following:</p> <ol style="list-style-type: none"> 1. Retry the operation. 2. The CD in the USB CD-ROM drive may not be readable. Try another CD. 3. Replace the USB CD-ROM drive. 4. Replace the system backplane. 	SYSBKP2
21020012	<p>USB CD-ROM: execution of ATA/ATAPI command by the USB CD-ROM failed. Do the following:</p> <ol style="list-style-type: none"> 1. Check the power and signal connectors going to the USB CD-ROM drive, and correct any problems that you find. 2. Retry the operation. If the problem persists, continue with the next step. 3. The CD in the USB CD-ROM drive may not be readable. Try another CD. If the problem persists, continue with the next step. 4. Replace the USB CD-ROM drive. 5. Replace the system backplane. 	SYSBKP2
21020013	<p>USB CD-ROM: bootable CD is missing from the CD-ROM drive.</p> <p>Place a bootable CD-ROM in the USB CD-ROM drive.</p>	
21020014	<p>USB CD-ROM: the CD in the drive has been changed. Do the following:</p> <ol style="list-style-type: none"> 1. Retry the operation. 2. Check for system firmware updates, and apply if available. 3. Replace the USB CD-ROM drive. 4. Replace the system backplane. 	SYSBKP2
21020015	<p>USB CD-ROM: ATA/ATAPI packed command execution by USB CD-ROM failed. do the following:</p> <ol style="list-style-type: none"> 1. The CD in the USB CD-ROM drive may not be readable. Try another CD. If the problem persists, continue with the next step. 2. Check for system firmware updates, and apply if available. 3. Replace the USB CD-ROM drive. 4. Replace the system backplane. 	SYSBKP2

Table 6. (220x) Model 185 and A50 reference (error) codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
22000001	PCI Ethernet adapter failure Replace the adapter.	
22001001	PCI Ethernet adapter failure Replace the adapter.	
22001002	PCI Ethernet adapter failure Replace the adapter.	
22003002	Gigabit Ethernet adapter failure <ul style="list-style-type: none"> • If the location code reported with the error specifies the adapter in the PCI slot, replace that adapter. • If the location code specifies the integrated Ethernet, replace the system backplane. 	SYSBKP2
22003003	Gigabit Ethernet adapter failure If there is an adapter plugged into the PCI slot in the system, remove it. Then power the system back up. <ul style="list-style-type: none"> • If this error code does not occur again, replace the PCI adapter card that you removed. • If this error code occurs again, replace the system backplane. 	SYSBKP2
22010001	PCI token ring adapter failure Replace the adapter.	
22011001	PCI token ring adapter failure Replace the adapter.	

Table 7. (25Ax) Model 185 and A50 reference (error) codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
25A00001	L2 cache controller failure. Do the following: <ol style="list-style-type: none"> 1. Check for system firmware updates, and apply if available. 2. Replace the system backplane. 	SYSBKP2
25A10001	Cache L2 SRAM failure <ol style="list-style-type: none"> 1. Check for system firmware updates, and apply if available. 2. Replace the system backplane. 	SYSBKP2

20A8, 20Dx, 20EE, 20FF, 2102, 2200, 25Ax, 25Cx, 2602, 2803, 2B2x

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
25A80xxx	<p>NVRAM problems</p> <p>Errors reported against NVRAM can be caused by low battery voltage and (more rarely) power outages that occur during normal system usage. With the exception of the 25A80000 error, these errors are warnings that the NVRAM data had to be reestablished and do not require any FRU replacement unless the error is persistent. When one of these errors occurs, any system customization (for example, boot device list) information has been lost. If the error is persistent, replace the system backplane.</p>	SYSBKP2
25A80000	<p>Initialization failed, device test failed</p> <p>Refer to the actions for error code 25A80xxx.</p>	
25A80100	<p>NVRAM data validation check failed. Do the following:</p> <ol style="list-style-type: none"> 1. Before replacing any system component, turn off and then turn on the system unit. Then, retry the operation. 2. If the problem persists, refer to the actions for error code 25A80xxx. 	
25A80201	<p>Unable to expand target partition: saving configuration variable</p> <p>Refer to the actions for error code 25A80xxx.</p>	
25A80202	<p>Unable to expand target partition: writing error log entry</p> <p>Refer to the actions for error code 25A80xxx.</p>	
25A80203	<p>Unable to expand target partition: writing VPD data</p> <p>Refer to the actions for error code 25A80xxx.</p>	
25A80210	<p>Setenv/\$Setenv parameter error: name contains a null character</p> <p>Refer to the actions for error code 25A80xxx.</p>	
25A80211	<p>Setenv/\$Setenv parameter error: name contains a null character</p> <p>Refer to the actions for error code 25A80xxx.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
25A80998	<p>NVRAMRC script evaluation error: command line execution error</p> <p>Running of a command line within the nvram configuration variable nvramrc (script) resulted in a throw being run.</p> <p>This script can be modified by the firmware SMS utilities, the operating system, a PCI adapter ROM code or utility, or an operator (by using the open firmware script editing command nvedit). Resolving the problem may not be possible without a detailed analysis of the NVRAM script, the current system configuration, and device tree contents. Contact your next level of support for assistance.</p>	NEXTLVL
25A80999	<p>NVRAMRC script evaluation error: stack unbalanced on completion</p> <p>This is a firmware debug environment error. No user action or FRU replacement exists for this error. If this error persists, call your next level of support.</p>	NEXTLVL

Table 8. (25Cx) Model 185 and A50 reference (error) codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
25C00000	<p>No DIMMs detected. Do the following:</p> <ol style="list-style-type: none"> 1. Ensure that all DIMMs are properly seated. Reseat them if necessary, and reboot the system. 2. Replace the DIMMs one at a time until the failing DIMM is isolated. 3. Replace the system backplane. 	SYSBKP2

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
25C0xxyy	<p>DIMM failure, where xx and yy indicate:</p> <p>xx Description -----</p> <p>01 DIMM2 missing 10 DIMM1 missing 12 DIMM1 not supported 14 DIMM1 failed 21 DIMM2 not supported 22 DIMM1 and DIMM2 unsupported 41 DIMM2 failed 88 DIMM1 and DIMM2 mismatch</p> <p>yy Description -----</p> <p>01 DIMM4 missing 10 DIMM3 missing 12 DIMM3 not supported 14 DIMM3 failed 21 DIMM4 not supported 22 DIMM3 and DIMM4 unsupported 41 DIMM4 failed 88 DIMM3 and DIMM4 mismatch</p> <p>Do the following:</p> <ol style="list-style-type: none"> 1. Verify that the DIMMs in the system are supported. Replace all unsupported DIMMs, then reboot the system. 2. Verify that the DIMMs are installed in pairs. If they are not, properly install the DIMMs. Reboot the system. 3. Ensure that the DIMMs are properly seated; reseat if necessary. Reboot the system. 4. If the problem persists, replace the system backplane. 	SYSBKP2
25C10001	<p>Memory DIMM failure</p> <ol style="list-style-type: none"> 1. Insure that the DIMMs are properly seated; reseat if necessary. Reboot the system. 2. Replace the DIMM specified by the location code, then reboot the system. 3. Replace the companion DIMM in the pair, then reboot the system. 4. If the problem persists, replace the system backplane. 	SYSBKP2
25C10002	<p>Memory DIMM is not supported</p> <ol style="list-style-type: none"> 1. Verify that the DIMMs in the system are supported. Replace all unsupported DIMMs, then reboot the system. 2. Verify that the DIMMs are installed in one or more pairs. If they are not, properly install the DIMMs, then reboot the system. 3. If the problem persists, replace the system backplane. 	SYSBKP2

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
25C10003	<p>The companion (in the pair) of the memory DIMM specified by the location code is failing, unsupported, missing, or unmatched. Do the following:</p> <ol style="list-style-type: none"> 1. Verify that the DIMMs in the system are supported. Replace all unsupported DIMMs, then reboot the system. 2. Verify that the DIMMs are installed in one or more pairs. If they are not, properly install the DIMMs, then reboot the system. 3. Replace the companion of the DIMM specified by the location code. 4. Replace the DIMM specified by the location code. 5. If the problem persists, replace the system backplane. 	SYSBKP2

Table 9. (2602) Model 185 and A50 reference (error) codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
26020008	<p>PCI device fcode evaluation error.</p> <ul style="list-style-type: none"> • If the location code identifies a slot, do the following: <ol style="list-style-type: none"> 1. Reseat the adapter and reboot the system. 2. Replace the adapter. 3. Check for system firmware updates, and apply if available. 4. If the problem persists, replace the system backplane. • If the location code identifies the system backplane, replace the system backplane. 	SYSBKP2
26020009	<p>The PCI adapter Fcode left a data stack imbalance. Do the following:</p> <ol style="list-style-type: none"> 1. Check for adapter microcode updates, and apply if available. Note: Using the adapter for booting is not recommended until after you install the new adapter microcode. 2. If no microcode updates are available, or if installing new microcode does not correct the problem, replace the PCI adapter. 	

Table 10. (2803) Model 185 and A50 reference (error) codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2803000A	<p>The Hypervisor function to get or set the time-of-day (TOD) reported an error.</p> <p>Errors reported against the real time clock might be caused by low battery voltage or (more rarely) power outages that occur during normal system usage. These errors are warnings that the real time clock data content needs to be reestablished. Unless the error is persistent, these errors do not require any FRU replacement. When one of these errors occurs, the system loses time and date information.</p> <p>Reset the server time and date through the installed operating system.</p> <p>If the error is persistent, do the following:</p> <ol style="list-style-type: none"> 1. Check for system firmware updates, and apply if available. 2. Replace the system battery. 3. Replace the system backplane. 	SYSBKP2
28030001	<p>Real-time-clock not updating: real-time-clock initialization required.</p> <p>Set the time and date. Note: This is normally an informational message. If the problem persists, replace the system backplane.</p>	SYSBKP2
28030002	<p>Bad time/date values</p> <p>Set the time and date. Note: This is normally an informational message. If the problem persists, replace the system backplane.</p>	SYSBKP2
28030003	<p>Real-time-clock not updating: not correctable.</p> <p>Replace the system backplane.</p>	SYSBKP2
28030004	<p>Real-time-clock operating mode parameters (for example, data mode) changed. Do the following:</p> <ol style="list-style-type: none"> 1. Set the time and date. 2. Refer to the actions under 28030001. 	
28030005	<p>Real-time-clock battery error</p> <p>Replace the system backplane.</p>	SYSBKP2

Table 11. (2B2x) Model 185 and A50 reference (error) codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2B200x31	<p>Processor x is faulty</p> <p>Replace the system backplane.</p>	SYSBKP2

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2B208888	Operating system termination request received Informational message.	
2B2x00EE	An exception error has been reported on a processor The type of interrupt that caused the exception is specified by the x as follows: x Description ----- 0 Unknown interrupt 1 System reset interrupt (SRI) 2 Machine check interrupt (MCI) 3 Data storage interrupt (DSI) 4 Instruction storage interrupt (ISI) 5 External interrupt (EXI) 6 Alignment interrupt (ALI) 7 Program interrupt (SRI) 8 Floating unavailable interrupt (FUI) Do the following: 1. Check for system firmware updates, and apply if available. 2. Replace the system backplane.	SYSBKP2

(2689) Reference codes

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (2689) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0A17	A permanent I/O processor failure occurred	2689 AJDG301 AJDGP01
0A22	Adapter card storage error	AJDGP01 AJDG301 2689
1307	I/O adapter resource not available.	AJDGP01 AJDG301
1310	I/O adapter resource not available. The INA processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.	2689 AJDGP01
3000	An I/O adapter failure occurred.	2689 AJDGP01
3001	I/O adapter Licensed Internal Code failed.	2689 AJDGP01
3006	An I/O adapter failure occurred.	2689 ANYBUS
3080	I/O adapter Licensed Internal Code failed.	AJDGP01

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3081	I/O adapter error; logged only.	
3084	An I/O adapter failure occurred.	AJDGP01 2689
3087	I/O adapter resource not available.	AJDGP01 AJDG301 NTUSER
6070	An I/O adapter failure occurred.	2689
6071	I/O adapter Licensed Internal Code failed.	AJDGP01
6072	I/O adapter Licensed Internal Code failed.	AJDGP01 2689
6075	I/O adapter resource not available.	AJDGP01
6083, 6085	I/O adapter Licensed Internal Code failed.	AJDGP01 2689
6201	A permanent I/O processor failure occurred	2689 AJDGP01
6202	I/O processor Licensed Internal Code error	AJDGP01 2689
6203	A permanent I/O processor failure occurred	NETSERV 2689 AJDGP01
6210	I/O processor Licensed Internal Code error	NETSERV AJDGP01
6222	A permanent I/O processor failure occurred	AJDGP01 2689
6223	A permanent I/O processor failure occurred	2689 AJDGP01
6225	A permanent I/O processor failure occurred	AJDGP01 AJDG301 2689
6226	I/O processor card detected device error	AJDG301 AS4NTDD
6227	A HostLAN error was detected	NTUSER AJDGP01 2689
6228	Windows initiated a warm boot	AJDGP01 2689
6501	A Windows fatal error occurred	2689 AJDGP01
6502	A Windows fatal error occurred	AJDGP01 2689
6530	A Virtual SCSI error was detected	NTVSCSI NTOPSYS
6531	A Virtual SCSI error was detected	NTVSCSI AS4NTDD NTOPSYS AJDGP01
6532	A Virtual SCSI error was detected	NTOPSYS AJDGP01 AS4NTDD

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6533	A Virtual SCSI error was detected	NTUSER NTOPSYS AS4NTDD
6534	A Virtual SCSI error was detected	AS4NTDD AJDGP01 NTOPSYS
6535	A Virtual SCSI error was detected	NTUSER NTDEVDR AJDGP01
6538	A Virtual SCSI error was detected	NTVSCSI NTOPSYS
6539	A Virtual SCSI error was detected	NTVSCSI AS4NTDD NTOPSYS AJDGP01
653A	A Virtual SCSI error was detected	NTOPSYS AJDGP01 AS4NTDD
653B	A Virtual SCSI error was detected	NTUSER NTOPSYS AS4NTDD
653C	A Virtual SCSI error was detected	AS4NTDD AJDGP01 NTOPSYS
653D	A Virtual SCSI error was detected	NTUSER NTDEVDR AJDGP01
653F	A Virtual SCSI error was detected	NTDEVDR NTOPSYS AJDG301
6540	A Virtual SCSI error was detected	NTVSCSI AJDGP01 AJDG301
6541	A permanent I/O processor failure occurred	2689 AJDGP01
6542	Licensed Internal Code error detected.	AJDG301 AJDGP01
6543	A Windows fatal error occurred	NTOPSYS NTVSCSI
6544	A Virtual SCSI error was detected	NTVSCSI NTOPSYS
6580	A Windows fatal error occurred	DISKIMG 2689 AJDGP01
6590	A Netfinity Server error was detected	
65B0	A HostLAN error was detected	NTLANDD NTOPSYS
65B1	A HostLAN error was detected	NTLANDD NTOPSYS AJDG301

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
65B2	A HostLAN error was detected	NTDEVDR NTOPSYS AJDG301
8301	An I/O adapter failure occurred.	AJDGP01 2689
B3B1 to B3B7	A permanent I/O processor failure occurred	2689
B3B8	An I/O adapter failure occurred.	2689
B3B9	A permanent I/O processor failure occurred	2689
B3E0	I/O processor detected a fault condition	2689
B3E1	An I/O adapter failure occurred.	2689
B4B0	I/O adapter hardware error detected	2689
B4B1	A Netfinity Server error was detected	NETSERV AJDGP01
B4B9	An I/O adapter failure occurred.	2689
B4BC	A Netfinity Server error was detected	NETSERV
B4BF	A Netfinity Server error was detected	NSCABLE
B904	A permanent I/O processor failure occurred	AJDGP01 2689
B935	Incompatible hardware detected.	AJDGP01 2689
B960	I/O processor Licensed Internal Code error	AJDGP01 2689
BE00	An I/O adapter failure occurred.	AJDGP01 2689

Table 2. Failing items details

Failing Item	Description	Document Description
2689	I/O adapter card	Repair and Parts; removal and installation procedures
AJDG301	Licensed Internal Code	See the service documentation for instructions.
AJDGP01	I/O card Licensed Internal Code	See the service documentation for instructions.
ANYBUS	Remote HSL Network Bus	See the service documentation for instructions.
AS4NTDD	Device Driver	See the service documentation for instructions.
DISKIMG	Server Storage Space Object	See the service documentation for instructions.
NETSERV	Direct Attach Netfinity Server	See the service documentation for instructions.
NSCABLE	Direct Attach Netfinity Server cable	See the service documentation for instructions.
NTDEVDR	Device Driver	See the service documentation for instructions.
NTLANDD	Device Driver	See the service documentation for instructions.
NTOPSYS	Windows Operating System	See the service documentation for instructions.
NTUSER	User-initiated action	See the service documentation for instructions.
NTVSCSI	Device Driver	See the service documentation for instructions.

(2724, 2744, 6149) Reference codes

1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.
2. Look at the last 8 characters of the top 16 character line of function 12 (word 3). These 8 characters are the direct select address of the card (BBBBCbBb). The unit address portion of the card address is characters 1 through 8 of the bottom 16 character line of function 11 (word 4). Card locations can be found using the 16 character address. See SRC Address Formats.
3. Find the unit reference code in the following table.

For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (2724, 2744, 6149) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B904	I/O adapter Licensed Internal Code failed.	AJDGP01 FI00719
B920	I/O adapter Licensed Internal Code failed.	AJDGP01 FI00718 FI00719
B921	I/O adapter hardware error detected	FI00719 FI00718 AJDGP01 MA_BRDG
B934	Incompatible hardware detected.	FI00719 FI00718

Table 2. Failing items details

Failing Item	Description	Document Description
AJDGP01	Input/Output Processor Licensed Internal Code	Service Functions; APAR or LICTR
MA_BRDG	Multi-adapter bridge	See the service documentation for instructions.

(2742, 2793, 2805) Reference codes

1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.
2. Look at the last 8 characters of the top 16 character line of function 12 (word 3). These 8 characters are the direct select address of the card (BBBBCbBb). The unit address portion of the card address is characters 1 through 8 of the bottom 16 character line of function 11 (Word 4). Card locations can be found using the 16 character address. See SRC Address Formats.
3. Find the unit reference code in the following table.

For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (2742, 2793, 2805) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B940	I/O adapter hardware error detected	FI00719 AJDGP01 MA_BRDG

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B941	One of the ports on the IOA has failed.	FI00719 AJDGP01

Table 2. Failing items details

Failing Item	Description	Document Description
AJDGP01	Licensed Internal Code	Service Functions; APAR or LICTR
MA_BRDG	Multi-adapter bridge	See the service documentation for instructions.

(2743, 2760) Reference codes

1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.
2. Look at the last 8 characters of the top 16 character line of function 12 (word 3). These 8 characters are the direct select address of the card (BBBBcbb). The unit address portion of the card address is characters 1 through 8 of the bottom 16 character line of function 11 (Word 4). Card locations can be found using the 16 character address. See SRC Address Formats.
3. Find the unit reference code in the following table.

For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (2743, 2760) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B950	Licensed Internal Code error	AJDGP01 FI00718 FI00719
B951	I/O adapter hardware error detected	FI00719 FI00718 AJDGP01 MA_BRDG

Table 2. Failing items details

Failing Item	Description	Document Description
AJDGP01	LIC - Input/Output Processor Licensed Internal Code	Service Functions; APAR or LICTR
MA_BRDG	Multi-adapter bridge	See the service documentation for instructions.

(2745) Reference Codes

1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.
2. Look at the last 8 characters of the top 16 character line of function 12 (word 3). These 8 characters are the direct select address of the card (BBBBcbb). The unit address portion of the card address is characters 1 through 8 of the bottom 16 character line of function 11 (word 4). Card locations can be found using the 16 character address. See SRC Address Formats.
3. Find the unit reference code in the following table.

For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (2745) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B904	I/O adapter Licensed Internal Code failed.	AJDGP01 FI00719
B934	Incompatible hardware detected.	FI00719 FI00718
B940	I/O adapter hardware error detected	FI00719 FI00718 AJDGP01 MA_BRDG
B941 to B942	One half of I/O adapter failed.	FI00719 FI00718 AJDGP01

Table 2. Failing items details

Failing Item	Description	Document Description
AJDGP01	LIC - Input/Output Processor Licensed Internal Code	Service Functions; APAR or LICTR
MA_BRDG	Multi-adapter bridge	See the service documentation for instructions.

(2746) Twinaxial – workstation adapter reference codes

1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.
2. Look at the last 8 characters of the top 16 character line of function 12 (word 3). These 8 characters are the direct select address of the card (BBBBcbb). The unit address portion of the card address is characters 1 through 8 of the bottom 16 character line of function 11 (Word 4). Card locations can be found using the 16 character address. See SRC Address Formats.
3. Find the unit reference code in the following table.

For more on the Failing Item column entries, see Table 2. Workstation adapter failing items details, which follows the reference code table below.

Table 1. (2746) Twinaxial – workstation adapter reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B904	I/O adapter Licensed Internal Code failed.	AJDGP01 FI00719
B934	Incompatible hardware detected.	FI00719 FI00718
B940	I/O adapter hardware error detected	FI00719 FI00718 AJDGP01 MA_BRDG
B941 to B942	One half of I/O adapter failed.	FI00719 FI00718 AJDGP01

Table 2. Workstation adapter failing items details

Failing Item	Description	Document Description
AJDGP01	LIC - Input/Output Processor Licensed Internal Code	Service Functions; APAR or LICTR
MA_BRDG	Multi-adapter bridge	See the service documentation for instructions.

(2748, 2757, 2763, 2778, 2780, 2782, 5703, 5709) Reference codes

If the error is reported on the control panel, the unit reference code is characters 5 through 8 of the top 16 character line of function 11. If the error is reported on the console, the unit reference code is the 4 rightmost characters of word 1.

Find the unit reference code in the following table.

For more on the Failing Item column entries, see Table 2. Failing Items Details, which follows the reference code table below.

Table 1. (2748, 2757, 2763, 2778, 2780, 2782, 5703, 5709) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1310	I/O processor resource not available The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.	
3006	System bus error	IOP ANYBUS STORIOA
3020	I/O processor detected a SCSI bus configuration error Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.	USER FI01107 STORIOA
3021	I/O processor detected a SCSI bus configuration error Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.	USER FI01107 STORIOA
3022	I/O processor detected a SCSI bus configuration error Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.	USER FI01107 STORIOA
3023	I/O processor detected a SCSI bus configuration error Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.	USER FI01107 STORIOA
3100	I/O processor card detected interface error Error occurred on SCSI bus 0. Perform IOPIP13.	FI01107 STORIOA FI01140 DEVBPLN

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3101	I/O processor card detected interface error Error occurred on SCSI bus 1. Perform IOPIP13.	FI01107 STORIOA FI01140 DEVBPLN
3102	I/O processor card detected interface error Error occurred on SCSI bus 2. Perform IOPIP13.	FI01107 STORIOA FI01140 DEVBPLN
3103	I/O processor card detected interface error Error occurred on SCSI bus 3. Perform IOPIP13.	FI01107 STORIOA FI01140 DEVBPLN
3120	I/O Processor detected that the bus is not operational A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.	SVCDOCS
3121	I/O Processor detected that the bus is not operational A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.	SVCDOCS
3122	I/O Processor detected that the bus is not operational A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.	SVCDOCS
3123	I/O Processor detected that the bus is not operational A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.	SVCDOCS
3140	I/O Processor detected that the bus is now operational This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.	
3141	I/O Processor detected that the bus is now operational This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.	
3142	I/O Processor detected that the bus is now operational This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.	
3143	I/O Processor detected that the bus is now operational This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.	
3150	I/O processor detected a SCSI bus configuration error Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.	SVCDOCS
3151	I/O processor detected a SCSI bus configuration error Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.	SVCDOCS

2748, 2757, 2763, 2778, 2780, 2782, 5703, 5709

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3400	I/O processor card detected device error	FI02112 STORIOA FI01106 DEVTERM FI01140
3401	Device backplane problem	DEVBPLN
3501	I/O processor Licensed Internal Code error	AJDGP01 IOP
3600 to 3601	System log entry only, no service action required	
8008	A permanent cache battery pack failure occurred NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.	CACHBAT STORIOA
8009	Impending cache battery pack failure	CACHBAT
8012	Attached read cache devices exceed capacity supported by IOA Reduce the number of read caches on the IOA.	SVCDOCS
8100	I/O processor Licensed Internal Code error	AJDGP01 IOP
8130	IOA detected recoverable device bus error An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.	
8131	IOA detected recoverable device bus error An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.	
8132	IOA detected recoverable device bus error An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.	
8133	IOA detected recoverable device bus error An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.	
8140	IOA detected recoverable device bus error No action is required. This reference code is logged for information only.	
8141	IOA detected recoverable device error No action is required. This reference code is logged for information only.	
8145	A recoverable I/O processor error occurred.	STORIOA
8146	Disk device detected recoverable error	FI01105

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
8150	A permanent I/O processor failure occurred NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.	STORIOA ANYBRDG
8151	I/O processor Licensed Internal Code error	AJDGP01 STORIOA
8155 to 8156	A permanent I/O processor failure occurred	AJDGP01 STORIOA
8157	I/O adapter card error Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to: 1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On. 2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources.	SVCDOCS
8200	I/O processor Licensed Internal Code error	AJDGP01 IOP
9000	I/O processor card detected device error	FI01105 STORIOA
9001	I/O processor card detected device configuration error Perform IOPIP33.	SVCDOCS
9002	I/O processor card detected device error Perform IOPIP16.	FI01105 STORIOA FI01140 BACKPLN FI01106
9008	I/O card does not support functions expected by devices Perform IOPIP25.	SVCDOCS
9009	Call your next level of support for assistance	SVCDOCS
9010	Cache data associated with attached devices cannot be found Perform IOPIP31.	SVCDOCS
9011	Cache data belongs to devices other than those attached Perform IOPIP32.	SVCDOCS
9014	Mode jumper overridden due to cache data in conflicting mode See JOVERRIDE.	SVCDOCS
9015	Mode jumper missing See JMISSING.	SVCDOCS

2748, 2757, 2763, 2778, 2780, 2782, 5703, 5709

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9020 to 9021	Array not functional due to present hardware configuration. Perform IOPIP20.	SVCDOCS
9022 to 9024	Array not functional due to present hardware configuration. Perform IOPIP22.	SVCDOCS
9025	Disk unit is not supported at its physical location. Perform IOPIP21.	SVCDOCS
9026	Array not functional due to present hardware configuration. Perform IOPIP22.	SVCDOCS
9027	Array not functional due to present hardware configuration. Perform IOPIP34.	SVCDOCS
9028	Incorrect hardware configuration change has been detected. Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.	SVCDOCS
9029	Incorrect hardware configuration change has been detected. Contact your next level of support.	SVCDOCS
902F	Array addendum Product Activity Log entry This entry contains additional array information for 90xx reference codes when the array contains more than 10 array members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.	
9030	Array no longer protected due to missing or failed disk unit Perform IOPIP21.	SVCDOCS
9031	Automatic rebuild initiated for array Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.	
9032	A disk unit in an array is missing or failed The array is still protected, but the disk unit should be replaced. Perform IOPIP21.	FI02112 SVCDOCS
9040	Array protection temporarily suspended No action required. Protection will be automatically restarted.	
9041	Background array parity check detected and corrected errors Call your next level of support to report the problem.	AJDGP01
9042	An array parity error has been detected and corrected Call your next level of support to report the problem.	NEXTLVL
9050	Required cache data cannot be located for a disk unit. Perform IOPIP30.	SVCDOCS

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9051	IOP cache data exists for a missing or failed device. If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code. Otherwise, perform IOPIP27.	SVCDPCS
9052	Cache data exists for device that has been modified. Contact your next level of support.	SVCDPCS
9053	IOP resources not available due to previous problems. Take action on other IOP reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.	SVCDPCS
9054	IOP resources not available due to previous problems. Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.	SVCDPCS
9071	Link from IOA to auxiliary cache IOA went operational No service action required.	
9072	Link from IOA to auxiliary cache IOA went non-operational No service action required.	
9073	Incompatible or non-operational auxiliary cache IOA attached Perform IOPIP40.	SVCDPCS
9081	I/O processor card detected device error	FI01105 STORIOA
9082	I/O processor card detected device error Perform IOPIP16.	FI01105 STORIOA FI01140 BACKPLN FI01106
9090	Disk unit has been modified after the last known status. Re-IPL the system. If any reference codes are surfaced, go to List of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.	SVCDPCS
9091	Incorrect hardware configuration change has been detected. Re-IPL the system. If any reference codes are surfaced, go to List of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.	SVCDPCS

2748, 2757, 2763, 2778, 2780, 2782, 5703, 5709

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9092	Disk unit requires initialization before use. Perform IOPIP26.	SVCDOCS
9093	Read cache device not in correct format Contact your next level of support.	SVCDOCS
B934	Incompatible hardware detected.	STORIOA
FF3D	I/O adapter detected a recoverable error	STORIOA ANYBRDG
FF6D	I/O processor detected a recoverable system bus error	IOP ANYBUS

Table 2. Failing items details

Failing Item	Description	Document Description
AJDGP01	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
ANYBRDG	System I/O bus or any attached card	See the service documentation for instructions.
ANYBUS	IOP card bus error	See the service documentation for instructions.
BACKPLN	Card Enclosure or Planar Board	See the service documentation for instructions.
CACHBAT	Cache battery pack	See the service documentation for instructions.
DEVBPLN	Device backplane	See the service documentation for instructions.
DEVTERM	Terminating plug	See the service documentation for instructions.
IOP	I/O processor card	See the service documentation for instructions.
NEXTLVL	Call your next level of support for assistance	See the service documentation for instructions.
PCIBUS	Any PCI card on the PCI bus	See the service documentation for instructions.
STORIOA	Storage I/O adapter	See the service documentation for instructions.
SVCDOCS	Customer engineer directed to system problem analysis	See the service documentation for instructions.
USER	System Operator/User	See the service documentation for instructions.

(2749, 2767, 2768, 2842, 2843, 2844, 284B, 5702, 570B) Reference codes

1. If the error is reported on the control panel, the unit reference code is characters 5 through 8 of the top 16 character line of function 11. If the error is reported on the console, the unit reference code is the 4 rightmost characters of word 1.
2. Find the unit reference code in the following table.

Attention: The 673x is a read cache. Perform all actions required for 673x as a disk drive and logic card except where separate 673x cache instructions are provided.

For more on the Failing Item column entries, see Table 2. Failing Items Details, which follows the reference code table below.

Table 1. (2749, 2767, 2768, 2842, 2843, 2844, 284B, 5702, 570B) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0A17	A permanent I/O processor failure occurred	IOP MA_BRDG AJDGP01 AJDG301
0A22	I/O processor detected a storage transfer error	AJDGP01 AJDG301 IOP MA_BRDG
102E	Out of alternate sectors for disk storage	FI01105
1306	I/O processor card or Licensed Internal Code error A microprocessor exception occurred on the I/O processor.	AJDGP01 IOP FI01104 BACKPLN
1307	I/O processor resource not available	AJDGP01 AJDG301
1310	I/O processor resource not available The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.	
1317	I/O processor card error Display the Service Action Log entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following: 1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On. 2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources.	SVCDOCS
2200	I/O processor Licensed Internal Code error	AJDGP01
2201	Removable media error during IPL	USER FI01105
2202	Removable media error during IPL	FI00022 FI01105
3000	A permanent I/O processor failure occurred	FI01101 IOP MA_BRDG
3001	Not valid condition in I/O Processor Licensed Internal Code The Licensed Internal Code found a condition that should not have occurred.	IOP AJDGP01
3002	Addressed device failed to respond to selection Perform IOPIP16.	FI01105 STORIOA FI01140 FI01141 FI01106
3006	System bus error	IOP ANYBUS FI01101

2749, 2767, 2768, 2842, 2843, 2844, 284B, 5702, 570B

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3020	I/O processor detected a SCSI bus configuration error Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.	USER FI01107 STORIOA
3021	I/O processor detected a SCSI bus configuration error Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.	USER FI01107 STORIOA
3022	I/O processor detected a SCSI bus configuration error Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.	USER FI01107 STORIOA
3023	I/O processor detected a SCSI bus configuration error Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17. Use the failing item (FI) codes to find failing devices.	USER FI01107 STORIOA
3080	I/O processor Licensed Internal Code error	AJDGP01
3081	System log entry only, no service action required	
3084	I/O processor card or Licensed Internal Code error A microprocessor exception occurred on the I/O processor.	AJDGP01 IOP FI01104 MA_BRDG
3087	I/O processor resource not available The Licensed Internal Code could not allocate resources on the I/O processor card.	AJDGP01 AJDG301 IOACNFG FI01104
3100	I/O processor card detected interface error Error occurred on SCSI bus 0. Perform IOPIP13.	FI01107 STORIOA FI01140 DEVBPLN
3101	I/O processor card detected interface error Error occurred on SCSI bus 1. Perform IOPIP13.	FI01107 STORIOA FI01140 DEVBPLN
3102	I/O processor card detected interface error Error occurred on SCSI bus 2. Perform IOPIP13.	FI01107 STORIOA FI01140 DEVBPLN
3103	I/O processor card detected interface error Error occurred on SCSI bus 3. Perform IOPIP13.	FI01107 STORIOA FI01140 DEVBPLN
3109	I/O processor timed out a device command Perform IOPIP16.	FI01105 STORIOA FI01140 BACKPLN FI01106

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3110	I/O processor card detected interface error Perform IOPIP16.	FI01105 STORIOA FI01140 BACKPLN FI01106
3120	I/O Processor detected that the bus is not operational A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.	SVCDOCS
3121	I/O Processor detected that the bus is not operational A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.	SVCDOCS
3122	I/O Processor detected that the bus is not operational A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.	SVCDOCS
3123	I/O Processor detected that the bus is not operational A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.	SVCDOCS
3136	The removable media device is assigned elsewhere	USER FI01105
3140	I/O Processor detected that the bus is now operational This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.	
3141	I/O Processor detected that the bus is now operational This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.	
3142	I/O Processor detected that the bus is now operational This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.	
3143	I/O Processor detected that the bus is now operational This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.	
3150	I/O processor detected a SCSI bus configuration error Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.	SVCDOCS
3151	I/O processor detected a SCSI bus configuration error Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.	SVCDOCS
3200	A tape/CD or disk device reported a failure	FI01105 STORIOA IOP MEDIA
3203	Disk media format bad	FI01105

2749, 2767, 2768, 2842, 2843, 2844, 284B, 5702, 570B

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3205, 3215	Disk sector read error Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.	FI01105
3250	Disk unit requires initialization before use. Perform a D-IPL and work on errors found in the log.	USER
3300	Storage unit detected a media problem Perform IOPIP01.	MEDIA FI00121 FI01141
3400	I/O processor card detected device error NOTE: If external devices are attached check EXTSCSI and DEVTERM first.	FI02112 STORIOA FI01106 DEVTERM FI01140
3401	Device backplane problem	DEVBPLN
3501	I/O processor Licensed Internal Code error	AJDGP01 IOP
3600 to 3601	System log entry only, no service action required	
6070	A permanent I/O processor failure occurred	IOP
6071	I/O processor Licensed Internal Code error	AJDGP01
6072	I/O processor Licensed Internal Code error	AJDGP01 IOP
6073	IPL device not ready	MEDIA FI01105 USER
6075	I/O processor resource not available	AJDGP01
6076	I/O processor card detected media error	MEDIA AJDGP01 FI01105
6081 to 6083	I/O processor Licensed Internal Code error	AJDGP01 IOP
6085	I/O processor Licensed Internal Code error	AJDGP01 IOP MA_BRDG
6200	A permanent IOA hardware error occurred	FCIOA OPT_CLN
6201	IOA LID is not valid	AJDGP01
6602	An I/O processor Licensed Internal Code error occurred.	AJDGP01
8000	A permanent IOP or cache adaptor card failure occurred. Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.	STORIOA CACHE
8002	A permanent cache adaptor card failure occurred. Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.	CACHE STORIOA
8004	Voltage drop detected on I/O processor 5 volt power supply.	FI01141 STORIOA

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
8005	A recoverable IOP or cache adaptor card error occurred. Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.	STORIOA CACHE
8007	A recoverable cache adaptor card error occurred. Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.	CACHE STORIOA
8010 to 8011	A permanent cache adaptor card failure occurred. The cache adaptor card may be missing, broken or incompatible. Note: DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.	CACHE STORIOA
8100	I/O processor Licensed Internal Code error	AJDGP01 IOP
8130	IOA detected recoverable device bus error An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.	
8131	IOA detected recoverable device bus error An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.	
8132	IOA detected recoverable device bus error An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.	
8133	IOA detected recoverable device bus error An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.	
8140	IOA detected recoverable device bus error No action is required. This reference code is logged for information only.	
8141	IOA detected recoverable device error No action is required. This reference code is logged for information only.	
8145	A recoverable I/O processor error occurred.	STORIOA
8146	Disk device detected recoverable error	FI01105
8150	A permanent I/O processor failure occurred	STORIOA ANYBRDG
8151	I/O processor Licensed Internal Code error	AJDGP01 STORIOA
8155 to 8156	A permanent I/O processor failure occurred	AJDGP01 STORIOA

2749, 2767, 2768, 2842, 2843, 2844, 284B, 5702, 570B

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
8157	<p>I/O adapter card error</p> <p>Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:</p> <ol style="list-style-type: none"> 1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On. 2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources. 	SVCDOCS
8200	I/O processor Licensed Internal Code error	AJDGP01 IOP
8300	<p>I/O processor card or Licensed Internal Code error</p> <p>A microprocessor exception occurred on the I/O processor.</p>	STORIOA IOP AJDGP01
8301	<p>Not valid condition in I/O Processor Licensed Internal Code</p> <p>The Licensed Internal Code found a condition that should not have occurred.</p>	FI01101 AJDGP01 IOP
8400	I/O processor Licensed Internal Code error	AJDGP01
9000	I/O processor card detected device error	FI01105 STORIOA
9001	<p>I/O processor card detected device configuration error</p> <p>Perform IOPIP33.</p>	SVCDOCS
9002	<p>I/O processor card detected device error</p> <p>Perform IOPIP16.</p>	FI01105 STORIOA FI01140 BACKPLN FI01106
9008	<p>I/O card does not support functions expected by devices</p> <p>Perform IOPIP25.</p>	SVCDOCS
9009	Call your next level of support for assistance	SVCDOCS
9010	<p>Cache data associated with attached devices cannot be found</p> <p>Perform IOPIP31.</p>	SVCDOCS
9011	<p>Cache data belongs to devices other than those attached</p> <p>Perform IOPIP32.</p>	SVCDOCS
9012	<p>IOP requires a cache adaptor card but cannot find it.</p> <p>The cache adapter card is missing or broken.</p> <p>Perform IOPIP29.</p>	CACHE
9013	<p>The IOP and attached cache adaptor card are not compatible.</p> <p>Perform IOPIP19.</p>	SVCDOCS
9020 to 9021	<p>Array not functional due to present hardware configuration.</p> <p>Perform IOPIP20.</p>	SVCDOCS

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9022 to 9024	Array not functional due to present hardware configuration. Perform IOPIP22.	SVCDPCS
9025	Disk unit is not supported at its physical location. Perform IOPIP21.	SVCDPCS
9026	Array not functional due to present hardware configuration. Perform IOPIP22.	SVCDPCS
9027	Array not functional due to present hardware configuration. Perform IOPIP34.	SVCDPCS
9028	Incorrect hardware configuration change has been detected. Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.	SVCDPCS
9029	Incorrect hardware configuration change has been detected. Contact your next level of support.	SVCDPCS
902F	Array addendum Product Activity Log entry This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.	
9030	Array no longer protected due to missing or failed disk unit Perform IOPIP21.	SVCDPCS
9031	Automatic rebuild initiated for array Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.	
9040	Array protection temporarily suspended No action required. Protection will be automatically restarted.	
9041	Background array parity check detected and corrected errors Call your next level of support to report the problem.	AJDGP01
9050	Required cache data cannot be located for a disk unit. Perform IOPIP30.	SVCDPCS
9051	IOP cache data exists for a missing or failed device. If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code. Otherwise, perform IOPIP27.	SVCDPCS
9052	Cache data exists for device that has been modified. Perform IOPIP28.	SVCDPCS

2749, 2767, 2768, 2842, 2843, 2844, 284B, 5702, 570B

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9053	IOP resources not available due to previous problems. Take action on other IOP reference codes which have surfaced. If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.	SVCDOCS
9054	IOP resources not available due to previous problems. Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.	SVCDOCS
9081	I/O processor card detected device error	FI01105 STORIOA
9082	I/O processor card detected device error Perform IOPIP16.	FI01105 STORIOA FI01140 BACKPLN FI01106
9090	Disk unit has been modified after the last known status. Re-IPL the system. If any reference codes are surfaced, go to List of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.	SVCDOCS
9091	Incorrect hardware configuration change has been detected. Re-IPL the system. If any reference codes are surfaced, go to List of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.	SVCDOCS
9092	Disk unit requires initialization before use. Perform IOPIP26.	SVCDOCS
B3B1 to B3B7	A permanent I/O processor failure occurred	IOP
B3B8	Multi-adapter bridge error detected.	MA_BRDG IOP
B3B9	A permanent I/O processor failure occurred	IOP
B3E0 to B3E1	I/O processor detected a fault condition.	IOP MA_BRDG
B410 to B411	A permanent I/O processor failure occurred	STORIOA
B412	Tape/CD or disk bus interface error occurred Perform IOPIP16.	FI01107 FI01140 STORIOA DEVTERM
B935	Unknown hardware detected	FI01101 AJDGP01 IOP MA_BRDG

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
BE00	I/O processor detected a fault condition.	AJDGP01 IOP FI01104 MA_BRDG
FF3D	I/O adapter detected a recoverable error	STORIOA ANYBRDG
FF6D	I/O processor detected a recoverable system bus error	IOP ANYBUS

Table 2. Failing items details

Failing Item	Description	Document Description
AJDGP01	Vertical Licensed Internal Code	Service Functions; APAR or LICTR
AJDGP01	I/O card Licensed Internal Code	Service Functions; APAR or LICTR
AJDGP01	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
ANYBRDG	System I/O bus or any attached card	See the service documentation for instructions.
ANYBUS	IOP card bus error	See the service documentation for instructions.
BACKPLN	Card Enclosure or Planar Board	See the service documentation for instructions.
CACHBAT	Cache battery pack	See the service documentation for instructions.
CACHE	Cache adaptor card	See the service documentation for instructions.
COMPRES1	Compressed device and compression IOA are not compatible	See the service documentation for instructions.
CTLPNL	Control panel, or the interface to the Control panel	See the service documentation for instructions.
DEVBPLN	Device backplane	See the service documentation for instructions.
DEVTERM	Terminating plug	See the service documentation for instructions.
FCIOA	Fibre Channel IOA	See the service documentation for instructions.
IOACNFG	Configuration error	See the service documentation for instructions.
IOP	I/O processor card	See the service documentation for instructions.
MA_BRDG	Multi-adapter bridge	See the service documentation for instructions.
MEDIA	Defective media	See the service documentation for instructions.
OPT_CLN	Fiber optic cleaning kit	See the service documentation for instructions.
PCIBUS	Any PCI card on the PCI bus	See the service documentation for instructions.
STORIOA	Storage I/O adapter	See the service documentation for instructions.
SVCDOCS	Customer engineer directed to system problem analysis	See the service documentation for instructions.
USER	System Operator/User	See the service documentation for instructions.

(2750, 2751) Reference codes

1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.
2. Look at the last 8 characters of the top 16 character line of function 12 (word 3). These 8 characters are the direct select address of the card (BBBBcbb). The unit address portion of the card address is characters 1 through 8 of the bottom 16 character line of function 11 (Word 4). Card locations can be found using the 16 character address. See SRC Address Formats.

2749, 2767, 2768, 2842, 2843, 2844, 284B, 5702, 570B

3. Find the unit reference code in the following table.

Table 1. (2750, 2751) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B980 to B983	I/O adapter hardware error detected	FI00719 FI00730

(2761) Reference codes

1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.
2. Look at the last 8 characters of the top 16 character line of function 12 (word 3). These 8 characters are the direct select address of the card (BBBBcbb). The unit address portion of the card address is characters 1 through 8 of the bottom 16 character line of function 11 (word 4). Card locations can be found using the 16 character address. See SRC Address Formats.
3. Find the unit reference code in the following table.

Table 1. (2761) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B980 to B983	I/O adapter hardware error detected	FI00719 FI00730

(2765, 2766, 2787, 280D, 280E, 5704) Reference Codes

If the error is reported on the control panel, the unit reference code is characters 5 through 8 of the top 16 character line of function 11. If the error is reported on the console, the unit reference code is the 4 rightmost characters of word 1.

Find the unit reference code in the following table.

For more on the Failing Item column entries, see Table 2. Failing Items Details, which follows the reference code table below.

Table 1. (2765, 2766, 2787, 280D, 280E, 5704) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3020	I/O processor detected a configuration error Either too many devices or the wrong kind of devices have been configured under the IOA. Change the configuration.	SVCDPCS
3100	I/O processor card detected interface error	FCINTF ANYFC FCIOA OPT_CLN
3120	I/O processor detected a port failure	FCPORT FCIOA FCDEV OPT_CLN
3140	I/O Processor detected that a port is now operational This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3400	I/O processor card detected device error	FCDEV FCINTF ANYFC FCIOA OPT_CLN
34FF	Format in progress The device indicated that a format is in progress. When the format is complete, the device should be useable. No action is required. This reference code is logged for information only.	
8130, 8140	Recovered Fibre Channel interface error No action required. This reference code is logged for information only.	
8141	IOA detected recoverable device error No action required. This reference code is logged for information only.	
8145	A recoverable I/O processor error occurred.	FCIOA OPT_CLN
8146	Disk device detected recoverable error	FCDEV
8150	A permanent I/O processor failure occurred	FCIOA ANYBRDG OPT_CLN
8151	I/O processor Licensed Internal Code error	AJDGP01 FCIOA IOP OPT_CLN
8155 to 8156	A permanent I/O processor failure occurred	AJDGP01 FCIOA OPT_CLN
9091 to 9092	Incorrect hardware configuration change has been detected. Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see Debug the resource. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.	SVCDOS
FF3D	Recovered IOA error	FCIOA ANYBRDG OPT_CLN

Table 2. Failing items details

Failing Item	Description	Document Description
AJDGP01	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
ANYBRDG	System I/O bus or any attached card	See the service documentation for instructions.
ANYFC	Any Fibre Channel device	See the service documentation for instructions.
FCDEV	Fibre Channel device	See the service documentation for instructions.
FCINTF	Fibre Channel interface	See the service documentation for instructions.
FCIOA	Fibre Channel IOA	See the service documentation for instructions.
FCPORT	Port not operational	See the service documentation for instructions.
IOP	I/O processor card	See the service documentation for instructions.

Failing Item	Description	Document Description
OPT_CLN	Fiber optic cleaning kit	See the service documentation for instructions.
SVCDOCS	Customer engineer directed to system problem analysis	See the service documentation for instructions.

(2771, 2772) Reference codes

1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.
2. Look at the last 8 characters of the top 16 character line of function 12 (word 3). These 8 characters are the direct select address of the card (BBBBcbb). The unit address portion of the card address is characters 1 through 8 of the bottom 16 character line of function 11 (Word 4). Card locations can be found using the 16 character address. See SRC Address Formats.
3. Find the unit reference code in the following table.

For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (2771, 2772) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B904	I/O adapter Licensed Internal Code failed.	AJDGP01 FI00719
B934	Incompatible hardware detected.	FI00719 FI00718
B940	I/O adapter hardware error detected	FI00719 FI00718 AJDGP01 MA_BRDG
B941 to B942	One half of I/O adapter failed.	FI00719 FI00718 AJDGP01

Table 2. Failing items details

Failing Item	Description	Document Description
AJDGP01	LIC - Input/Output Processor Licensed Internal Code	Service Functions; APAR or LICTR
MA_BRDG	Multi-adapter bridge	See the service documentation for instructions.

(281x) Reference codes

1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.
2. Look at the last 8 characters of the top 16 character line of function 12 (word 3). These 8 characters are the direct select address of the card (BBBBcbb). The unit address portion of the card address is characters 1 through 8 of the bottom 16 character line of function 11 (word 4). Card locations can be found using the 16 character address. See SRC Address Formats.
3. Find the unit reference code in the following table.

Table 1. (281x) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B910	I/O adapter hardware error detected	FI00719 FI00730 FI00718

(2838, 2849) Reference codes

1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.
2. Look at the last 8 characters of the top 16 character line of function 12 (word 3). These 8 characters are the direct select address of the card (BBBBcbb). The unit address portion of the card address is characters 1 through 8 of the bottom 16 character line of function 11 (Word 4). Card locations can be found using the 16 character address. See SRC Address Formats.
3. Find the unit reference code in the following table.

For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (2838, 2849) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B904	I/O adapter Licensed Internal Code failed.	AJDGP01 FI00719
B930	I/O adapter Licensed Internal Code failed.	AJDGP01 FI00718 FI00719
B931	I/O adapter hardware error detected	FI00719 FI00718 AJDGP01 MA_BRDG
B933	Incompatible hardware detected.	FI00719 AJDGP01

Table 2. Failing items details

Failing Item	Description	Document Description
AJDGP01	LIC - Input/Output Processor Licensed Internal Code	Service Functions; APAR or LICTR
MA_BRDG	Multi-adapter bridge	See the service documentation for instructions.

(2847) Reference codes

If the error is reported on the control panel, the unit reference code is characters 5 through 8 of the top 16 character line of function 11. If the error is reported on the console, the unit reference code is the 4 rightmost characters of word 1.

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (2847) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0A17	A permanent I/O processor failure occurred	IOP MA_BRDG AJDGP01 AJDG301
0A22	I/O processor detected a storage transfer error	AJDGP01 AJDG301 IOP MA_BRDG
1307	I/O processor resource not available	AJDGP01 AJDG301
1310	I/O processor resource not available The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.	
3000	A permanent I/O processor failure occurred	FCIOA IOP MA_BRDG OPT_CLN
3001	Not valid condition in I/O Processor Licensed Internal Code The Licensed Internal Code found a condition that should not have occurred.	IOP AJDGP01
3002	Addressed device is not responding	FCPORT FCDEV FCIOA FCINTF OPT_CLN
3006	System bus error	IOP ANYBUS FCIOA OPT_CLN
3080	I/O processor Licensed Internal Code error	AJDGP01
3081	System log entry only, no service action required	
3084	I/O processor card or Licensed Internal Code error A microprocessor exception occurred on the I/O processor.	AJDGP01 IOP FCIOA MA_BRDG OPT_CLN
3087	I/O processor resource not available The Licensed Internal Code could not allocate resources on the I/O processor card.	AJDGP01 AJDG301 FCIOA OPT_CLN
3100	I/O processor card detected interface error	FCINTF ANYFC FCIOA OPT_CLN
3109	I/O processor timed out a device command	FCDEV FCINTF FCIOA OPT_CLN

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3120	I/O processor detected a port failure	FCPORT FCIOA FCDEV OPT_CLN
3200	A disk device reported a failure	FCDEV FCIOA IOP OPT_CLN
3501	I/O processor Licensed Internal Code error	AJDGP01 IOP
6070	A permanent I/O processor failure occurred	IOP
6071	I/O processor Licensed Internal Code error	AJDGP01
6072	I/O processor Licensed Internal Code error	AJDGP01 IOP
6075	I/O processor resource not available	AJDGP01
6076	I/O processor card detected media error	AJDG301 AJDGP01 FCDEV
6081 to 6083	I/O processor Licensed Internal Code error	AJDGP01 IOP
6085	I/O processor Licensed Internal Code error	AJDGP01 IOP MA_BRDG
6200	A permanent IOA hardware error occurred	FCIOA OPT_CLN
6201	IOA LID is not valid	AJDGP01
8100	I/O processor Licensed Internal Code error	AJDGP01 IOP
8150	A permanent I/O processor failure occurred	FCIOA ANYBRDG OPT_CLN
8155 to 8156	A permanent I/O processor failure occurred	AJDGP01 FCIOA OPT_CLN
8200	I/O processor Licensed Internal Code error	AJDGP01 IOP
8300	I/O processor card or Licensed Internal Code error A microprocessor exception occurred on the I/O processor.	FCIOA IOP AJDGP01 OPT_CLN
8301	Not valid condition in I/O Processor Licensed Internal Code The Licensed Internal Code found a condition that should not have occurred.	FCIOA AJDGP01 IOP OPT_CLN
B3B1 to B3B7	A permanent I/O processor failure occurred	IOP
B3B8	Multi-adapter bridge error detected.	MA_BRDG IOP
B3E0 to B3E1	I/O processor detected a fault condition.	IOP MA_BRDG

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B935	Unknown hardware detected	FCIOA AJDGP01 IOP MA_BRDG OPT_CLN
BE00	I/O processor detected a fault condition.	AJDGP01 IOP FCIOA MA_BRDG OPT_CLN

Table 2. Failing items details

Failing Item	Description	Document Description
AJDG301	Vertical Licensed Internal Code	Service Functions; APAR or LICTR
AJDGP01	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
AJDGP01	I/O card Licensed Internal Code	Service Functions; APAR or LICTR
ANYBRDG	System I/O bus or any attached card	See the service documentation for instructions.
ANYBUS	IOP card bus error	See the service documentation for instructions.
ANYFC	Any Fibre Channel device	See the service documentation for instructions.
BACKPLN	Card Enclosure or Planar Board	See the service documentation for instructions.
CACHBAT	Cache battery pack	See the service documentation for instructions.
CACHE	Cache adaptor card	See the service documentation for instructions.
COMPRES1	Compressed device and compression IOA are not compatible	See the service documentation for instructions.
CTLPNL	Control panel, or the interface to the Control panel	See the service documentation for instructions.
DEVBPLN	Device backplane	See the service documentation for instructions.
DEVTERM	Terminating plug	See the service documentation for instructions.
FCDEV	Fibre Channel device	See the service documentation for instructions.
FCINTF	Fibre Channel interface	See the service documentation for instructions.
FCIOA	Fibre Channel IOA	See the service documentation for instructions.
FCPORT	Port not operational	See the service documentation for instructions.
IOACNFG	Configuration error	See the service documentation for instructions.
IOP	I/O processor card	See the service documentation for instructions.
MA_BRDG	Multi-adaptor bridge	See the service documentation for instructions.
MEDIA	Defective media	See the service documentation for instructions.
OPT_CLN	Fiber optic cleaning kit	See the service documentation for instructions.
PCIBUS	Any PCI card on the PCI bus	See the service documentation for instructions.
STORIOA	Storage I/O adapter	See the service documentation for instructions.
SVCDOCS	Customer engineer directed to system problem analysis	See the service documentation for instructions.
USER	System Operator/User	See the service documentation for instructions.

(287F) Reference codes

1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.
2. Look at the last 8 characters of the top 16 character line of function 12 (word 3). These 8 characters are the direct select address of the card (BBBBCbBb). The unit address portion of the card address is characters 1 through 8 of the bottom 16 character line of function 11 (word 4). Card locations can be found using the 16 character address. See SRC Address Formats.
3. Find the unit reference code in the following table.

For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (287F) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B9A0	I/O adapter hardware error detected	FI00719 AJDGP01

Table 2. Failing items details

Failing Item	Description	Document Description
AJDGP01	Input/Output Processor Licensed Internal Code	Service Functions; APAR or LICTR

(2890) Reference codes

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (2890) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0A17	A permanent I/O processor failure occurred	IOP MA_BRDG AJDG301 AJDGP01
0A22	Adapter card storage error	AJDGP01 AJDG301 IOP MA_BRDG
1307	I/O adapter resource not available.	AJDGP01 AJDG301
1310	I/O adapter resource not available. The INS processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.	IOP AJDGP01
3000	An I/O adapter failure occurred.	IOP AJDGP01
3001	I/O adapter Licensed Internal Code failed.	IOP AJDGP01
3006	An I/O adapter failure occurred.	IOP ANYBUS

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3080	I/O adapter Licensed Internal Code failed.	AJDGP01
3081	I/O adapter error; logged only.	
3084	An I/O adapter failure occurred.	AJDGP01 IOP IOA MA_BRDG
3087	I/O adapter resource not available.	AJDGP01 AJDG301 NTUSER IOA
6070	An I/O adapter failure occurred.	IOP
6071	I/O adapter Licensed Internal Code failed.	AJDGP01
6072	I/O adapter Licensed Internal Code failed.	AJDGP01 IOP
6075	I/O adapter resource not available.	AJDGP01
6083	I/O adapter Licensed Internal Code failed.	AJDGP01 IOP
6085	I/O adapter Licensed Internal Code failed.	AJDGP01 IOP MA_BRDG
6201	A permanent I/O processor failure occurred	IOP AJDGP01
6202	I/O processor Licensed Internal Code error	AJDGP01 IOP
6210	I/O processor Licensed Internal Code error	AJDGP01
6221	I/O processor resource not available	AJDG301
6222	A permanent I/O processor failure occurred	AJDGP01 IOP
6223	A permanent I/O processor failure occurred	IOP AJDGP01
6224	A permanent I/O processor failure occurred	DISKIMG AJDGP01 IOP MEMORY
6225	A permanent I/O processor failure occurred	AJDGP01 AJDG301 IOP
6226	I/O processor card detected device error	AJDG301 AS4NTDD
6227	A HostLAN error was detected	NTUSER AJDGP01 IOP
6228	Windows initiated a warm boot	AJDGP01 IOP
6501	A Windows fatal error occurred	IOP AJDGP01
6502	A Windows fatal error occurred	AJDGP01 IOP

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6530	A Virtual SCSI error was detected	NTVSCSI NTOPSYS
6531	A Virtual SCSI error was detected	NTVSCSI AS4NTDD NTOPSYS AJDGP01
6532	A Virtual SCSI error was detected	NTOPSYS AJDGP01 AS4NTDD
6533	A Virtual SCSI error was detected	NTUSER NTOPSYS AS4NTDD
6534	A Virtual SCSI error was detected	AS4NTDD AJDGP01 NTOPSYS
6535	A Virtual SCSI error was detected	NTUSER NTDEVDR AJDGP01
6538	A Virtual SCSI error was detected	NTVSCSI NTOPSYS
6539	A Virtual SCSI error was detected	NTVSCSI AS4NTDD NTOPSYS AJDGP01
653A	A Virtual SCSI error was detected	NTOPSYS AJDGP01 AS4NTDD
653B	A Virtual SCSI error was detected	NTUSER NTOPSYS AS4NTDD
653C	A Virtual SCSI error was detected	AS4NTDD AJDGP01 NTOPSYS
653D	A Virtual SCSI error was detected	NTUSER NTDEVDR AJDGP01
653F	A Virtual SCSI error was detected	NTDEVDR NTOPSYS AJDG301
6540	A Virtual SCSI error was detected	NTVSCSI AJDGP01 AJDG301
6541	A permanent I/O processor failure occurred	IOP AJDGP01
6542	Licensed Internal Code error detected.	AJDG301 AJDGP01
6543	A Windows fatal error occurred	NTOPSYS NTVSCSI
6580	A Windows fatal error occurred	DISKIMG IOP AJDGP01

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
65B0	A HostLAN error was detected	NTLANDD NTOPSYS
65B1	A HostLAN error was detected	NTLANDD NTOPSYS AJDG301
65B2	A HostLAN error was detected	NTDEVDR NTOPSYS AJDG301
8301	An I/O adapter failure occurred.	AJDGP01 IOP
B3B1 to B3B7	A permanent I/O processor failure occurred	IOP
B3B8	Multi-adapter bridge error detected.	MA_BRDG IOP
B3B9	A permanent I/O processor failure occurred	IOP
B3E0	I/O processor detected a fault condition	IOP MA_BRDG
B3E1	An I/O adapter failure occurred.	IOP MA_BRDG
B4B0	I/O adapter hardware error detected	IOP
B4B1	I/O adapter hardware error detected	IOP MEMORY
B4B2	Incompatible hardware detected.	IOP
B4B3	Incompatible hardware detected.	IOA
B4B4	I/O adapter hardware error detected	IOP IOA MEMORY
B4B5	An I/O adapter failure occurred.	AJDGP01 IOP
B4B8	Adapter card storage error	MEMORY IOP
B4B9	An I/O adapter failure occurred.	IOP
B4BC	I/O adapter error; logged only.	IOP IOA
B4BE	Adapter card storage error	MEMORY IOP
B904	A permanent I/O processor failure occurred	AJDGP01 IOP
B935	Incompatible hardware detected.	IOA AJDGP01 IOP MA_BRDG
B960	I/O processor Licensed Internal Code error	AJDGP01 IOP IOA
B961	An error was detected on one of the attached adapter cards.	IOA IOP AJDGP01

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
BE00	An I/O adapter failure occurred.	AJDGP01 IOP IOA MA_BRDG

Table 2. Failing items details

Failing Item	Description	Document Description
AJDG301	Licensed Internal Code	See the service documentation for instructions.
AJDGP01	I/O card Licensed Internal Code	See the service documentation for instructions.
ANYBUS	System bus	See the service documentation for instructions.
AS4NTDD	Device Driver	See the service documentation for instructions.
DISKIMG	Server Storage Space Object	See the service documentation for instructions.
IOA	IOA Communications adapter card	Repair and Parts; removal and installation procedures
IOP	Communications Input/Output Processor card	Repair and Parts; removal and installation procedures
IOP	I/O adapter card	Repair and Parts; removal and installation procedures
MA_BRDG	Multi-adapter bridge	See the service documentation for instructions.
MEMORY	DIMM 0	See the service documentation for instructions.
MEMORY	Storage card	See the service documentation for instructions.
MEMORY	DIMM in first populated DIMM position	See the service documentation for instructions.
MEMORY	DIMM 3	See the service documentation for instructions.
MEMORY	DIMM 2	See the service documentation for instructions.
MEMORY	DIMM 1	See the service documentation for instructions.
NTDEVDR	Device Driver	See the service documentation for instructions.
NTLANDD	Device Driver	See the service documentation for instructions.
NTOPSYS	Windows Operating System	See the service documentation for instructions.
NTUSER	User-initiated action	See the service documentation for instructions.
NTVSCSI	Device Driver	See the service documentation for instructions.

(2892) Reference codes

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (2892) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0A17	A permanent I/O processor failure occurred	IOP MA_BRDG AJDG301 AJDGP01

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0A22	Adapter card storage error	AJDGP01 AJDG301 IOP MA_BRDG
1307	I/O adapter resource not available.	AJDGP01 AJDG301
1310	I/O adapter resource not available. The INS processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.	IOP AJDGP01
1317	I/O processor card error Display the Service Action Log entry for this SRC. If the Failing Item indicates to replace hardware, then replace hardware. If the Failing Item indicates SVCDOCS, then do NOT replace hardware. This is a recoverable error. If the resource is not operable, use Hardware Service Manager to re-IPL the resource. Perform the VRYCFG command to Vary On the NWSD.	SVCDOCS
3000	An I/O adapter failure occurred.	IOP AJDGP01
3001	I/O adapter Licensed Internal Code failed.	IOP AJDGP01
3006	An I/O adapter failure occurred.	IOP ANYBUS
3080	I/O adapter Licensed Internal Code failed.	AJDGP01
3081	I/O adapter error; logged only.	
3084	An I/O adapter failure occurred.	AJDGP01 IOP IOA MA_BRDG
3087	I/O adapter resource not available.	AJDGP01 AJDG301 NTUSER IOA
6070	An I/O adapter failure occurred.	IOP
6071	I/O adapter Licensed Internal Code failed.	AJDGP01
6072	I/O adapter Licensed Internal Code failed.	AJDGP01 IOP
6075	I/O adapter resource not available.	AJDGP01
6083	I/O adapter Licensed Internal Code failed.	AJDGP01 IOP
6085	I/O adapter Licensed Internal Code failed.	AJDGP01 IOP MA_BRDG
6201	A permanent I/O processor failure occurred	IOP AJDGP01
6202	I/O processor Licensed Internal Code error	AJDGP01 IOP
6204	I/O adapter failure due to a thermal condition	IOP

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6210	I/O processor Licensed Internal Code error	AJDGP01
6221	I/O processor resource not available	AJDG301
6222	A permanent I/O processor failure occurred	AJDGP01 IOP
6223	A permanent I/O processor failure occurred	IOP AJDGP01
6224	A permanent I/O processor failure occurred	DISKIMG AJDGP01 IOP MEMORY
6225	A permanent I/O processor failure occurred	AJDGP01 AJDG301 IOP
6226	I/O processor card detected device error	AJDG301 AS4NTDD
6227	A HostLAN error was detected	NTUSER AJDGP01 IOP
6228	Windows initiated a warm boot	AJDGP01 IOP
6501	A Windows fatal error occurred	IOP AJDGP01
6502	A Windows fatal error occurred	AJDGP01 IOP
6530	A Virtual SCSI error was detected	NTVSCSI NTOPSYS
6531	A Virtual SCSI error was detected	NTVSCSI AS4NTDD NTOPSYS AJDGP01
6532	A Virtual SCSI error was detected	NTOPSYS AJDGP01 AS4NTDD
6533	A Virtual SCSI error was detected	NTUSER NTOPSYS AS4NTDD
6534	A Virtual SCSI error was detected	AS4NTDD AJDGP01 NTOPSYS
6535	A Virtual SCSI error was detected	NTUSER NTDEVDR AJDGP01
6538	A Virtual SCSI error was detected	NTVSCSI NTOPSYS
6539	A Virtual SCSI error was detected	NTVSCSI AS4NTDD NTOPSYS AJDGP01

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
653A	A Virtual SCSI error was detected	NTOPSYS AJDGP01 AS4NTDD
653B	A Virtual SCSI error was detected	NTUSER NTOPSYS AS4NTDD
653C	A Virtual SCSI error was detected	AS4NTDD AJDGP01 NTOPSYS
653D	A Virtual SCSI error was detected	NTUSER NTDEVDR AJDGP01
653F	A Virtual SCSI error was detected	NTDEVDR NTOPSYS AJDG301
6540	A Virtual SCSI error was detected	NTVSCSI AJDGP01 AJDG301
6541	A permanent I/O processor failure occurred	IOP AJDGP01
6542	Licensed Internal Code error detected.	AJDG301 AJDGP01
6543	A Windows fatal error occurred	NTOPSYS NTVSCSI
6580	A Windows fatal error occurred	DISKIMG IOP AJDGP01
65B0	A HostLAN error was detected	NTLANDD NTOPSYS
65B1	A HostLAN error was detected	NTLANDD NTOPSYS AJDG301
65B2	A HostLAN error was detected	NTDEVDR NTOPSYS AJDG301
8301	An I/O adapter failure occurred.	AJDGP01 IOP
B3B1 to B3B7	A permanent I/O processor failure occurred	IOP
B3B8	Multi-adapter bridge error detected.	MA_BRDG IOP
B3B9	A permanent I/O processor failure occurred	IOP
B3E0	I/O processor detected a fault condition	IOP MA_BRDG
B3E1	An I/O adapter failure occurred.	IOP MA_BRDG
B4B0	I/O adapter hardware error detected	IOP
B4B1	I/O adapter hardware error detected	IOP MEMORY
B4B2	Incompatible hardware detected.	IOP

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B4B3	Incompatible hardware detected.	IOA
B4B4	I/O adapter hardware error detected	IOP IOA MEMORY
B4B5	An I/O adapter failure occurred.	AJDGP01 IOP
B4B8	Adapter card storage error	MEMORY IOP
B4B9	An I/O adapter failure occurred.	IOP
B4BC	I/O adapter error; logged only.	IOP IOA
B4BE	Adapter card storage error	MEMORY IOP
B904	A permanent I/O processor failure occurred	AJDGP01 IOP
B935	Incompatible hardware detected.	IOA AJDGP01 IOP MA_BRDG
B960	I/O processor Licensed Internal Code error	AJDGP01 IOP IOA
B961	An error was detected on one of the attached adapter cards.	IOA IOP AJDGP01
BE00	An I/O adapter failure occurred.	AJDGP01 IOP IOA MA_BRDG

Table 2. Failing items details

Failing Item	Description	Document Description
AJDG301	Licensed Internal Code	See the service documentation for instructions.
AJDGP01	I/O card Licensed Internal Code	See the service documentation for instructions.
ANYBUS	System bus	See the service documentation for instructions.
AS4NTDD	Device Driver	See the service documentation for instructions.
DISKIMG	Server Storage Space Object	See the service documentation for instructions.
IOA	IOA Communications adapter card	Repair and Parts; removal and installation procedures
IOP	Communications Input/Output Processor card	Repair and Parts; removal and installation procedures
IOP	I/O adapter card	Repair and Parts; removal and installation procedures
MA_BRDG	Multi-adapter bridge	See the service documentation for instructions.
MEMORY	Storage card	See the service documentation for instructions.
MEMORY	Storage card	See the service documentation for instructions.

Failing Item	Description	Document Description
MEMORY	DIMM in first populated DIMM position - DIMM 0 or DIMM 1	See the service documentation for instructions.
MEMORY	Storage card	See the service documentation for instructions.
MEMORY	DIMM 3	See the service documentation for instructions.
MEMORY	DIMM 2	See the service documentation for instructions.
MEMORY	DIMM 0	See the service documentation for instructions.
MEMORY	DIMM 1	See the service documentation for instructions.
NTDEVDR	Device Driver	See the service documentation for instructions.
NTLANDD	Device Driver	See the service documentation for instructions.
NTOPSYS	Windows Operating System	See the service documentation for instructions.
NTUSER	User-initiated action	See the service documentation for instructions.
NTVSCSI	Device Driver	See the service documentation for instructions.
SVCDOS	Customer engineer directed to system problem analysis	See the service documentation for instructions.

(3490) Tape unit reference codes

A tape or tape library device failure occurred.

Note: Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs that you find in the Serviceable Event View. If you cannot locate an error log in the Serviceable Event View that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?
 - **Yes:** You have corrected the problem. **This ends the procedure.**
 - **No:** Look at the 4 rightmost characters of the Data display for Function 11, which represent the unit reference code. Find the unit reference code in the following table.

For more on the Failing Item column entries, see Table 2. Tape unit failing items details, which follows the reference code table below.

Table 1. (3490) Tape unit reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0xxx, 1xxx, 2000	Tape unit failure Use online problem analysis and the 3490 Tape Unit service information to analyze the problem.	
2001	Tape path dirty or write data check error Clean the tape path using the cleaning procedures in the <i>3490 Magnetic Tape Subsystem Operator's Guide</i> , GA32-0124. Use the 3490 Tape Unit service information to continue analyzing the problem.	MHK0001 DHK0002

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2003	Tape path dirty or write identification record error Clean the tape path using the cleaning procedures in the <i>3490 Magnetic Tape Subsystem Operator's Guide</i> , GA32-0124. Use the 3490 Tape Unit service information to continue analyzing the problem.	MHK0001 DHK0002
2008	Tape path dirty or read data check error Clean the tape path using the cleaning procedures in the <i>3490 Magnetic Tape Subsystem Operator's Guide</i> , GA32-0124. Use the 3490 Tape Unit service information to continue analyzing the problem.	MHK0001 DHK0002
2009	Tape path dirty or read identification record error Clean the tape path using the cleaning procedures in the <i>3490 Magnetic Tape Subsystem Operator's Guide</i> , GA32-0124. Use the 3490 Tape Unit service information to continue analyzing the problem.	MHK0001 DHK0002
2010	Tape unit failure Use online problem analysis and the 3490 Tape Unit service information to continue analyzing the problem.	
2014	Recoverable tape unit failure; logged only No action required. This reference code is logged for information only.	
2015	Tape unit failure Clean the tape path using the cleaning procedures in the <i>3490 Magnetic Tape Subsystem Operator's Guide</i> , GA32-0124. Use the 3490 Tape Unit service information to continue analyzing the problem.	DHK0002 FI00856 FI00845
2017	Write Protect violation reported by tape unit; logged only No action required. This reference code is logged for information only.	
202x, 205x, 206x, 21xx, 22xx	Tape unit failure Use online problem analysis and the 3490 Tape Unit service information to continue analyzing the problem.	
23xx	Tape Library failure Use the 3494 Tape Library Dataserver Maintenance Information to analyze the problem.	
26xx, 27xx, 3xxx, 4xxx, 5xxx, 6xxx, 7xxx, 8xxx	Tape unit failure Use online problem analysis and the 3490 Tape Unit service information to continue analyzing the problem.	
9020	I/O processor detected a SCSI bus configuration error Before exchanging any parts, verify that the following conditions are not present: <ul style="list-style-type: none"> • Tape and DASD devices attached to the same type 6501 I/O processor • A device type or model that is not given support 	UHKCNFG FI00851 FI00130

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9100	Interface error detected by I/O processor or by tape unit Before exchanging any parts, do the following: <ol style="list-style-type: none"> 1. Ensure that an interposer is connected between the I/O processor and the SCSI cable. 2. Ensure that the SCSI cable between the interposer and the device is seated correctly, and that there are no bent or damaged pins on the SCSI cable. 3. Ensure that a terminating plug is attached to the device end of the SCSI cable. 	FI00851 FI00856 05H3834 EXTSCSI 61G8324
9200	I/O processor addressed the tape unit; no response Before exchanging any parts, do the following: <ol style="list-style-type: none"> 1. Ensure that the device is powered on. 2. Ensure that an interposer is connected between the I/O processor and the SCSI cable. 3. Ensure that the SCSI cable between the interposer and the device is seated correctly, and that there are no bent or damaged pins on the SCSI cable. 4. Ensure that a terminating plug is attached to the device end of the SCSI cable. 	FI00851 FI00856 05H3834 EXTSCSI 61G8324
9201	Tape unit command timeout Before exchanging any parts, do the following: <ol style="list-style-type: none"> 1. Ensure that the device is powered on. 2. Ensure that an interposer is connected between the I/O processor and the SCSI cable. 3. Ensure that the SCSI cable between the interposer and the device is seated correctly, and that there are no bent or damaged pins on the SCSI cable. 4. Ensure that a terminating plug is attached to the device end of the SCSI cable. 	FI00851 FI00856 05H3834 EXTSCSI 61G8324
9210	Illegal or unsupported tape unit response	FI00851 FI00856 FI00130
9300	Tape unit failure	DHK0002
9301	Tape device failure, redundancy lost The tape unit detected a hardware failure that does not prevent the tape unit from completing the present operation. See the 3590 Tape Unit service information to determine the failing item.	DHK0002
9302	I/O processor Licensed Internal Code error If the system is operational, take a dump of the I/O processor data. For more information, see the <i>iSeries Service Functions</i> information or ask your next level of support for assistance.	FI00130
9310	Licensed Internal Code for the tape unit is not correct	FI00851 FI00130

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9320	<p>Tape device Licensed Internal Code failure</p> <p>Do the following:</p> <ol style="list-style-type: none"> 1. Take a dump of the tape device Licensed Internal Code (see the 3490 Tape Drive service information). 2. Power off the tape unit. Then power on the tape unit to resume operation. 	FI00851
9350	<p>Tape unit detected a read or write error on tape medium</p> <p>A permanent read or write error occurred, and the tape unit determined that the tape cartridge is defective. Exchange the tape cartridge.</p>	MHKTMED UHKCLN FI00851
9351	<p>I/O processor Licensed Internal Code error</p> <p>If the system is operational, take a dump of the I/O processor data. For more information, see the <i>iSeries Service Functions</i> information or ask your next level of support for assistance.</p>	FI00130
9355	<p>The data format is incorrect; the tape cannot be read</p> <p>The tape device does not give support to the data format on the tape cartridge. Re-initialize the tape cartridge or use a different tape cartridge.</p>	MHKTMED UHKCLN FI00851
9500	<p>I/O processor Licensed Internal Code error</p> <p>If the system is operational, take a dump of the I/O processor data. For more information, see the <i>iSeries Service Functions</i> information or ask your next level of support for assistance.</p>	FI00130
96xx	<p>Tape unit failure</p> <p>Use online problem analysis and the 3490 Tape Unit service information to continue analyzing the problem.</p>	
9800 to 9803	<p>I/O processor successfully recovered from temporary error</p> <p>No action required. This reference code is logged for information only.</p>	
9810	<p>Problem analysis has determined a part should be replaced.</p> <p>This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)</p>	
9899	<p>Problem analysis completed, the problem has been corrected.</p> <p>This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.</p>	UHKFIXD
9900	<p>Licensed Internal Code for tape unit was not upgraded</p> <p>The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.</p> <p>The tape unit will continue to operate with the previous LIC. You may do either of the following:</p> <ul style="list-style-type: none"> • Wait for next IPL when the system will attempt to load the LIC for the tape unit again. • Perform TU-PIP4 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC. 	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
Axxx, Bxxx, Cxxx, Dxxx, Exxx, F00x	Tape unit failure Use online problem analysis and the 3490 Tape Unit service information to continue analyzing the problem.	
FFD5	Device error reported; tape I/O processor Verify the following: 1. That power is switched on in the 3490 Tape Unit Rack: <ul style="list-style-type: none"> • Set the 3490 Rack Unit Emergency Power Off switch to the On position. • Ensure that the 3490 Rack Enable/Off switch is set to the Enable position. • Press the 3490 Rack Power On button. 2. Verify the following on 3490 Tape Unit: <ul style="list-style-type: none"> • The Channel Enable/Disable switches are set to the Enable position. • The Normal/Test switch is set to the Normal position. • The CU Online/Offline switch is set to the Online position. • The Drive Address Online/Offline switches are set to the Online position. • The Drive DC Power switches are set to the On position. <p>If you are attempting to perform an IPL from the device that had the error, verify that the drive control unit address switch has an address of hexadecimal 7 and the drive unit address switch has an address of 0.</p> <p>Use the 3490 Tape Unit service information to continue analyzing the problem.</p>	UHK0003 DHK0002
FFF6	Volume statistics; logged only No action required. This reference code is logged for information only.	

Table 2. Tape unit failing items details

Failing Item	Description	Document Description
05H3834	Interposer	Magnetic tape subsystem service information
61G8324	Terminating plug	Magnetic tape subsystem service information
DHK0002	I/O device	Use the sense bytes and 3490 MI to find the failing items
EXTSCSI	External signal cable	Problem Analysis; Symbolic FRU Isolation
MHK0001	Tape	Magnetic tape subsystem operator's information
MHKTMED	Defective tape	Magnetic tape subsystem operator's information
UHK0003	I/O device not communicating	Magnetic tape subsystem operator's information
UHKCLN	Tape unit needs cleaning	Magnetic tape subsystem operator's information
UHKCNFG	Tape configuration detected by I/O processor; not valid	Installation
UHKUSRT	System Operator/User	System operation information

(3494) Tape library reference codes

A tape or tape library device failure occurred.

Note: Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs that you find in the Serviceable Event View. If you cannot locate an error log in the Serviceable Event View that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the 3494 Library Manager console for error indications. Refer to the 3494 service information to resolve any error indications.
3. Attempt the failing operation again. Does the operation complete successfully?
 - **Yes:** The problem has been corrected. **This ends the procedure.**
 - **No:** Look at the 4 rightmost characters of the Data display for Function 11, which represent the unit reference code. Find the unit reference code in the following table.

For more on the Failing Item column entries, see Table 2. Tape library failing items details, which follows the reference code table below.

Table 1. (3494) Tape library reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2301	Library device failure Library attachment facility equipment check. Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY PROBLEM - NO ERROR MESSAGE."	3494
2303	Library device failure Device control unit and library manager Licensed Internal Code are incompatible. Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY PROBLEM - NO ERROR MESSAGE."	DHALIBC DHADEVVC
2306 to 2307	Library device failure Library vision failure. Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY PROBLEM - NO ERROR MESSAGE."	3494
2308	Library device failure Library manager equipment check. Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY MANAGER HARDWARE PROBLEM"	3494
2309	Library device failure Library equipment check. Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY PROBLEM - NO ERROR MESSAGE."	3494

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2310 to 2311	Library device requires operator intervention Put the library into pause mode and perform the intervention indicated on the library manager console.	
2319	Tape unit failure Use the tape unit service information to analyze the failure.	FI00851
2321	Library enclosure environmental alert was detected. Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY PROBLEM - NO ERROR MESSAGE."	3494

Table 2. Tape library failing items details

Failing Item	Description	Document Description
3494	Library device	IBM 3494 Maintenance Information, SA37-0270
DHADEV C	3490 Control Unit Licensed Internal Code	Refer to I/O device service information
DHALIBC	3494 Library Manager Licensed Internal Code	IBM 3494 Maintenance Information, SA37-0270

(3570) Tape unit reference codes

A tape or tape library device failure occurred.

Note: Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs that you find in the Serviceable Event View. If you cannot locate an error log in the Serviceable Event View that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?
 - **Yes:** You have corrected the problem. **This ends the procedure.**
 - **No:** Look at the 4 rightmost characters of the Data display for Function 11, which represent the unit reference code. Find the unit reference code in the following table.

For more on the Failing Item column entries, see Table 2. Tape unit failing items details, which follows the reference code table below.

Table 1. (3570) Tape unit reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9020	I/O processor detected a SCSI bus configuration error Before exchanging any parts, verify that the following conditions are not present: <ul style="list-style-type: none"> • Tape and DASD devices attached to an I/O processor that does not support tape and DASD devices at the same time. • A device type or model that is not given support. 	UHZCNFG DHZDEV FI00130

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9100	<p>Interface error detected by I/O processor or by tape unit</p> <p>Before exchanging any parts, do the following:</p> <ol style="list-style-type: none"> 1. Ensure that an interposer is connected between the I/O processor and the SCSI cable. 2. Ensure that the SCSI cable between the interposer and the device is seated correctly, and that there are no bent or damaged pins on the SCSI cable. 3. Ensure that a terminating plug is attached to the device end of the SCSI cable. 	DHZDEV FI00131 05H3834 EXTSCSI 61G8324
9101	<p>Fibre Channel interface error detected</p> <p>If the attached device is an external device, do the following before exchanging any parts:</p> <ol style="list-style-type: none"> 1. Ensure that the Fibre Channel cable is correctly connected to the ports. 2. Clean the Fibre Channel connectors. 3. If there is a hub attached, verify that the hub is operational. 4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures. 5. refer to the tape device service documentation for additional problem analysis procedures. 	FCIOA FCDEV FCCABLE
9102	<p>Gateway device detected a SCSI interface error</p> <p>Use the gateway device service documentation to analyze the problem.</p>	DHZDEV FCGATE EXTSCSI 61G8324
9200	<p>I/O processor addressed the tape unit; no response</p> <p>Before exchanging any parts, do the following:</p> <ol style="list-style-type: none"> 1. Ensure that the device is powered on. 2. Ensure that an interposer is connected between the I/O processor and the SCSI cable. 3. Ensure that the SCSI cable between the interposer and the device is seated correctly, and that there are no bent or damaged pins on the SCSI cable. 4. Ensure that a terminating plug is attached to the device end of the SCSI cable. 	DHZDEV FI00131 05H3834 EXTSCSI 61G8324
9201	<p>Tape unit command timeout</p> <p>Before exchanging any parts, do the following:</p> <ol style="list-style-type: none"> 1. Ensure that the device is powered on. 2. Ensure that an interposer is connected between the I/O processor and the SCSI cable. 3. Ensure that the SCSI cable between the interposer and the device is seated correctly, and that there are no bent or damaged pins on the SCSI cable. 4. Ensure that a terminating plug is attached to the device end of the SCSI cable. 	DHZDEV FI00131 05H3834 EXTSCSI 61G8324

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9202	<p>Tape unit failed after Licensed Internal Code was loaded</p> <p>Before exchanging any parts, do the following:</p> <ol style="list-style-type: none"> 1. Ensure that the device is powered on. 2. Ensure that an interposer is connected between the I/O processor and the SCSI cable. 3. Ensure that the SCSI cable between the interposer and the device is seated correctly, and that there are no bent or damaged pins on the SCSI cable. 4. Ensure that a terminating plug is attached to the device end of the SCSI cable. 	DHZDEV FI00131 05H3834 EXTSCSI 61G8324
9210	Illegal or unsupported tape unit response	DHZDEV FI00131 FI00130
9211	<p>Gateway device detected a bus protocol error</p> <p>Use the gateway device service documentation to analyze the problem.</p>	FCGATE FCIOA DHZDEV ANYFC FCCABLE EXTSCSI 61G8324
9300	Tape unit failure	DHZDEV
9301	<p>Tape device failure, redundancy lost</p> <p>The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.</p> <p>Refer to the 3570 Tape Unit service information to determine the failing item.</p>	DHZDEV
9302	<p>I/O processor Licensed Internal Code error</p> <p>If the system is operational, perform a dump of the I/O processor data. For more information, see Performing an IOP dump using hardware service manager.</p>	FI00130
9303	<p>Gateway device failure</p> <p>Use the gateway device service documentation to analyze the problem.</p>	FCGATE
9310	Licensed Internal Code for the tape unit is not correct	DHZDEV FI00130
9320	<p>Tape device Licensed Internal Code failure</p> <p>Perform the following:</p> <ol style="list-style-type: none"> 1. Take a dump of the tape unit Licensed Internal Code (see the 3570 Tape Unit service information). 2. Power off the tape unit. Then power on the tape unit to resume operation. 3. Ask your next level of support for assistance. 	FI00130 DHZDEV
9321	<p>Gateway device Licensed Internal Code error</p> <p>Use the gateway device service documentation to analyze the problem.</p>	FCCODE
9350	<p>Tape unit detected a read or write error on tape medium</p> <p>A permanent read or write error occurred, and the tape unit determined that the tape cartridge is defective. Exchange the tape cartridge.</p>	MHZTMED UHZCLN DHZDEV

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9351	Tape with excessive error rate was mounted in tape device. The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.	MHZTMED UHZCLN DHZDEV
9355	The data format is incorrect; the tape cannot be read The tape unit does not give support to the data format on the tape cartridge. Use a different tape cartridge.	UHZUSER MHZTMED UHZCLN DHZDEV
9500	I/O processor Licensed Internal Code error If the system is operational, perform a dump of the I/O processor data. For more information, see Performing an IOP dump using hardware service manager.	FI00130
9800 to 9803	I/O processor successfully recovered from temporary error No action required. This reference code is logged for information only.	
9810	Problem analysis has determined a part should be replaced. This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)	
9899	Problem analysis completed, the problem has been corrected. This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.	UHZFIXD
9900	Licensed Internal Code for tape unit was not upgraded The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed. The tape unit will continue to operate with the previous LIC. You may do either of the following: <ul style="list-style-type: none"> • Wait for next IPL when the system will attempt to load the LIC for the tape drive again. • Perform TU-PIP4 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC. 	UHZUSER
FFF6	Tape volume statistics logged (no action required)	

Table 2. Tape unit failing items details

Failing Item	Description	Document Description
05H3834	Interposer	IBM 3570 Tape Drive Service Guide
61G8324	Terminating plug	IBM 3570 Tape Drive Service Guide
ANYFC	Any device on Fibre Channel interface	Problem Analysis; Symbolic FRU Isolation
DHZDEV	Tape unit failure	IBM 3570 Tape Drive Service Guide
EXTSCSI	External signal cable	Problem Analysis; Symbolic FRU Isolation
FCCABLE	Fibre Channel cable	Problem Analysis; Symbolic FRU Isolation
FCCODE	Gateway device Licensed Internal Code	Problem Analysis; Symbolic FRU Isolation
FCDEV	Fibre Channel device	Problem Analysis; Symbolic FRU Isolation
FCGATE	Gateway device	IBM SAN Data Gateway Service Guide

Failing Item	Description	Document Description
FCIOA	Fibre Channel IOA	Problem Analysis; Symbolic FRU Isolation
MHZTMED	Defective tape	Magnetic tape subsystem service information
UHZCLN	Tape unit needs cleaning	Magnetic tape subsystem operator's information
UHZCNFG	Tape configuration detected by I/O processor; not valid	Installation
UHZUSER	Operator action required	System operation information

(358x, 3592, 4685, 5755, 6279, 6381, 6382, 6383, 6384, 6386, 6387, 63A0, 7207) Tape unit reference codes

A tape or tape library device failure occurred.

Note: Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the Serviceable Event View. If you cannot locate an error log in the Serviceable Event View that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?
 - **Yes:** You have corrected the problem. **This ends the procedure.**
 - **No:** Look at the 4 rightmost characters of the Data display for Function 11, which represent the unit reference code. Find the unit reference code in the following table.

For more on the Failing Item column entries, see Table 2. Tape unit failing items details, which follows the reference code table below.

Table 1. (358x, 3592, 4685, 5755, 6279, 6381, 6382, 6383, 6384, 6386, 6387, 63A0, 7207) Tape unit reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3202	Tape unit configuration error Before exchanging any parts, verify that the following condition is not present: <ul style="list-style-type: none"> • The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor. 	UH7CNFG FI00871
9020	Tape unit configuration error Before exchanging any parts, verify that the following conditions are not present: <ul style="list-style-type: none"> • Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time. • An unsupported device type or model is attached. 	UH7CNFG FI00871 PTFSRCH

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9100	<p>Interface error detected by system or by tape unit</p> <p>If the attached device is an external device, do the following before exchanging any parts:</p> <ol style="list-style-type: none"> 1. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable. 2. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable. 3. Ensure that a terminating plug is attached to the device end of the SCSI cable. 	<p>FI00871 FI01112 FI00872 DEVTERM</p>
9101	<p>Fibre Channel interface error detected</p> <p>If the attached device is an external device, do the following before exchanging any parts:</p> <ol style="list-style-type: none"> 1. Ensure that the Fibre Channel cable is correctly connected to the ports. 2. Clean the Fibre Channel connectors. 3. If there is a hub attached, verify that the hub is operational. 4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures. 5. refer to the tape device service documentation for additional problem analysis procedures. 	<p>FCIOA FCDEV FCCABLE</p>
9102	<p>Gateway device detected a SCSI interface error</p> <p>Use the gateway device service documentation to analyze the problem.</p>	<p>FI00871 FCGATE FI00872 DEVTERM</p>
9200	<p>Tape unit is not responding</p> <p>If the attached device is an external device, do the following before exchanging any parts:</p> <ol style="list-style-type: none"> 1. Ensure that the device is powered on. 2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable. 3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable. 4. Ensure that a terminating plug is attached to the device end of the SCSI cable. 	<p>FI00871 FI01112 FI00872 DEVTERM</p>
9201	<p>Tape unit command timeout</p> <p>If the attached device is an external device, do the following before exchanging any parts:</p> <ol style="list-style-type: none"> 1. Ensure that the device is powered on. 2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable. 3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable. 4. Ensure that a terminating plug is attached to the device end of the SCSI cable. 	<p>FI00871 FI01112 FI00872 DEVTERM MH7TMED</p>

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9202	<p>Tape unit failed after Licensed Internal Code was loaded</p> <p>If the attached device is an external device, do the following before exchanging any parts:</p> <ol style="list-style-type: none"> 1. Ensure that the device is powered on. 2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable. 3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable. 4. Ensure that a terminating plug is attached to the device end of the SCSI cable. 	<p>FI00871 FI01112 FI00872 DEVTERM</p>
9210	Illegal or unsupported tape unit response	<p>FI00871 FI01112 PTFSRCH</p>
9211	<p>Gateway device detected a bus protocol error</p> <p>Use the gateway device service documentation to analyze the problem.</p>	<p>FCGATE FCIOA FI00871 ANYFC FCCABLE FI00872 DEVTERM</p>
9300	Tape unit failure	FI00871
9301	<p>Tape device failure, redundancy lost</p> <p>The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.</p>	FI00871
9302	<p>Tape device failure or media error</p> <p>The tape unit detected a failure that may be caused by a hardware failure or a media error.</p> <p>Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.</p>	<p>MH7TMED FI00871</p>
9303	<p>Gateway device failure</p> <p>Use the gateway device service documentation to analyze the problem.</p>	FCGATE
9310	Licensed Internal Code for the tape unit is not correct	<p>PTFSRCH FI00871</p>
9320	Tape device Licensed Internal Code failure	<p>FI00130 FI00871</p>
9321	<p>Gateway device Licensed Internal Code error</p> <p>Use the gateway device service documentation to analyze the problem.</p>	FCCODE
9350	<p>Tape unit detected a read or write error on tape medium</p> <p>A permanent read or write error occurred. Clean the tape unit and retry the operation.</p> <p>If cleaning the tape unit does not correct the problem, exchange the tape media.</p>	<p>MH7TMED UH7CLN FI00871</p>

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9351	Tape with excessive error rate was mounted in tape device. The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.	MH7TMED UH7CLN FI00871
9355	The data format is incorrect; the tape cannot be read The tape unit has detected that the data format on the tape media is not supported. Clean the tape unit and retry the operation. If the operation continues to fail, use a different tape cartridge.	UH7USER MH7TMED UH7CLN FI00871
9500	Licensed Internal Code error If the system is operational, perform a dump of the I/O processor data. For more information, see Performing an IOP dump using hardware service manager.	PTFSRCH
9800 to 9804	System successfully recovered from temporary I/O error No action required. This reference code is logged for information only.	
9810	Problem analysis has determined a part should be replaced. This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)	
9899	Problem analysis completed, the problem has been corrected. This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.	UH7FIXD
9900	Licensed Internal Code for tape unit was not upgraded The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed. The tape unit will continue to operate with the previous LIC. You may do either of the following: <ul style="list-style-type: none"> • Wait for next IPL when the system will attempt to load the LIC for the tape drive again. • Perform TU-PIP4 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC. 	UH7USER
9901	Tape performance statistics logged. No action required. This reference code is logged for information only.	
9902	An IOP dump was initiated No action required.	
FFF6	Tape volume statistics logged (no action required)	

Table 2. Tape unit failing items details

Failing Item	Description	Document Description
ANYFC	Any device on Fibre Channel interface	Problem Analysis; Symbolic FRU Isolation
DEVTERM	Terminating plug	Problem Analysis; Symbolic FRU Isolation

Failing Item	Description	Document Description
FCCABLE	Fibre Channel cable	Problem Analysis; Symbolic FRU Isolation
FCCODE	Gateway device Licensed Internal Code	Problem Analysis; Symbolic FRU Isolation
FCDEV	Fibre Channel device	Problem Analysis; Symbolic FRU Isolation
FCGATE	Gateway device	IBM SAN Data Gateway Service Guide
FCIOA	Fibre Channel IOA	Problem Analysis; Symbolic FRU Isolation
MH7TMED	Defective tape	Magnetic tape subsystem service information
PTFSRCH	Licensed Internal Code	Service Functions; APAR or LICTR
UH7CLN	Tape unit needs cleaning	Magnetic tape subsystem operator's information
UH7CNFG	Tape configuration detected by system is not valid	Installation
UH7FIXD	Problem no longer exists	System operation information
UH7USER	Operator action required	System operation information

(3590) Tape unit reference codes

A tape or tape library device failure occurred.

Note: Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs that you find in the Serviceable Event View. If you cannot locate an error log in the Serviceable Event View that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?
 - **Yes:** You have corrected the problem. **This ends the procedure.**
 - **No:** Look at the 4 rightmost characters of the Data display for Function 11, which represent the unit reference code. Find the unit reference code in the following table.

For more on the Failing Item column entries, see Table 2. Tape unit failing items details, which follows the reference code table below.

Table 1. (3590) Tape unit reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9020	I/O processor detected a SCSI bus configuration error Before exchanging any parts, verify that the following conditions are <i>not</i> present: <ul style="list-style-type: none"> • Tape and DASD devices attached to an I/O processor that does not support tape and DASD devices at the same time. • A device type or model that is not given support 	UHQCNFG FI00851 FI00130

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9100	<p>Interface error detected by I/O processor or by tape unit</p> <p>Before exchanging any parts, do the following:</p> <ol style="list-style-type: none"> 1. Ensure that an interposer is connected between the I/O processor and the SCSI cable. 2. Ensure that the SCSI cable between the interposer and the device is seated correctly, and that there are no bent or damaged pins on the SCSI cable. 3. Ensure that a terminating plug is attached to the device end of the SCSI cable. 	FI00851 FI00131 05H3834 EXTSCSI 61G8324
9101	<p>Fibre Channel interface error detected</p> <p>If the attached device is an external device, do the following before exchanging any parts:</p> <ol style="list-style-type: none"> 1. Ensure that the Fibre Channel cable is correctly connected to the ports. 2. Clean the Fibre Channel connectors. 3. If there is a hub attached, verify that the hub is operational. 4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures. 5. refer to the tape device service documentation for additional problem analysis procedures. 	FCIOA FCDEV FCCABLE
9102	<p>Gateway device detected a SCSI interface error</p> <p>Use the gateway device service documentation to analyze the problem.</p>	FI00851 FCGATE EXTSCSI 61G8324
9200	<p>I/O processor addressed the tape unit; no response</p> <p>Before exchanging any parts, do the following:</p> <ol style="list-style-type: none"> 1. Ensure that the device is powered on. 2. Ensure that an interposer is connected between the I/O processor and the SCSI cable. 3. Ensure that the SCSI cable between the interposer and the device is seated correctly, and that there are no bent or damaged pins on the SCSI cable. 4. Ensure that a terminating plug is attached to the device end of the SCSI cable. 	FI00851 FI00131 05H3834 EXTSCSI 61G8324
9201	<p>Tape unit command timeout</p> <p>Before exchanging any parts, do the following:</p> <ol style="list-style-type: none"> 1. Ensure that the device is powered on. 2. Ensure that an interposer is connected between the I/O processor and the SCSI cable. 3. Ensure that the SCSI cable between the interposer and the device is seated correctly, and that there are no bent or damaged pins on the SCSI cable. 4. Ensure that a terminating plug is attached to the device end of the SCSI cable. 	FI00851 FI00131 05H3834 EXTSCSI 61G8324

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9202	<p>Tape unit failed after Licensed Internal Code was loaded</p> <p>Before exchanging any parts, do the following:</p> <ol style="list-style-type: none"> 1. Ensure that the device is powered on. 2. Ensure that an interposer is connected between the I/O processor and the SCSI cable. 3. Ensure that the SCSI cable between the interposer and the device is seated correctly, and that there are no bent or damaged pins on the SCSI cable. 4. Ensure that a terminating plug is attached to the device end of the SCSI cable. 	FI00851 FI00131 05H3834 EXTSCSI 61G8324
9210	Illegal or unsupported tape unit response	FI00851 FI00131 FI00130
9211	<p>Gateway device detected a bus protocol error</p> <p>Use the gateway device service documentation to analyze the problem.</p>	FCGATE FCIOA FI00851 ANYFC FCCABLE EXTSCSI 61G8324
9300	Tape unit failure	FI00851
9301	<p>Tape device failure, redundancy lost</p> <p>The tape unit detected a hardware failure that does not prevent the tape unit from completing the present operation.</p> <p>See the 3590 Tape Unit service information to determine the failing item.</p>	FI00851
9302	<p>I/O processor Licensed Internal Code error</p> <p>If the system is operational, perform a dump of the I/O processor data. For more information, see Performing an IOP dump using hardware service manager.</p>	FI00130
9303	<p>Gateway device failure</p> <p>Use the gateway device service documentation to analyze the problem.</p>	FCGATE
9310	Licensed Internal Code for the tape unit is not correct	FI00851 FI00130
9320	<p>Tape device Licensed Internal Code failure</p> <p>Do the following:</p> <ol style="list-style-type: none"> 1. Take a dump of the tape device Licensed Internal Code (see the 3590 Tape Unit service information). 2. Power off the tape unit. Then power on the tape unit to resume operation. 	FI00130 FI00851
9321	<p>Gateway device Licensed Internal Code error</p> <p>Use the gateway device service documentation to analyze the problem.</p>	FCCODE
9350	<p>Tape unit detected a read or write error on tape medium</p> <p>A permanent read or write error occurred, and the tape unit determined that the tape cartridge is defective. Exchange the tape cartridge.</p>	MHQTMED UHQCLN FI00851

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9351	Tape with excessive error rate was mounted in tape device. The tape unit detected that the installed tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.	MHQTMED UHQCLN FI00851
9355	The data format is incorrect; the tape cannot be read The tape device does not give support to the data format on the tape cartridge. Format the tape cartridge again or use a different tape cartridge. See the <i>3590 Tape Drive Operator's Guide</i> for instructions on formatting a tape cartridge.	MHQTMED UHQCLN FI00851
9500	I/O processor Licensed Internal Code error If the system is operational, perform a dump of the I/O processor data. For more information, see Performing an IOP dump using hardware service manager.	FI00130
9800 to 9803	I/O processor successfully recovered from temporary error No action required. This reference code is logged for information only.	
9810	Problem analysis has determined a part should be replaced. This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)	
9899	Problem analysis completed, the problem has been corrected. This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.	UHQFIXD
9900	Licensed Internal Code for tape unit was not upgraded The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed. The tape unit will continue to operate with the previous LIC. You may do either of the following: <ul style="list-style-type: none"> • Wait for next IPL when the system will attempt to load the LIC for the tape unit again. • Perform TU-PIP4 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC. 	
FFF6	Tape volume statistics logged (no action required)	

Table 2. Tape unit failing items details

Failing Item	Description	Document Description
05H3834	Interposer	IBM 3590 Tape Drive Service Guide
61G8324	Terminating plug	IBM 3590 Tape Drive Service Guide
ANYFC	Any device on Fibre Channel interface	Problem Analysis; Symbolic FRU Isolation
EXTSCSI	External signal cable	Problem Analysis; Symbolic FRU Isolation
FCCABLE	Fibre Channel cable	Problem Analysis; Symbolic FRU Isolation
FCCODE	Gateway device Licensed Internal Code	Problem Analysis; Symbolic FRU Isolation
FCDEV	Fibre Channel device	Problem Analysis; Symbolic FRU Isolation

Failing Item	Description	Document Description
FCGATE	Gateway device	IBM SAN Data Gateway Service Guide
FCIOA	Fibre Channel IOA	Problem Analysis; Symbolic FRU Isolation
MHQTMED	Defective tape	Magnetic tape subsystem service information
UHQCLN	Tape unit needs cleaning	Magnetic tape subsystem operator's information
UHQCNFG	Tape configuration detected by I/O processor; not valid	Installation

(40xx) Model 185 and A50 reference (error) codes

The system detected a power, voltage, or thermal problem.

Table 1. (40xx) Model 185 and A50 reference (error) codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
40100100	Power supply failure Replace the power supply. (For more information, see Removing and replacing parts in the model 185 and A50.)	
40100111	VRM 1 failure	VRMOD SYSBKP2
40100122	VRM 2 failure	VRMOD SYSBKP2
40100133	VRM ECID setting	VRMOD SYSBKP2
40100134	The system detected a voltage problem	VRMOD SYSBKP2
40100144	Unfused board (ECID)	SYSBKP2
40110111	The system detected a battery failure Replace the battery. (For more information, see Removing and replacing parts in the model 185 and A50.)	
40200111	Warning temperature reached Do the following: 1. Check the airflow to the fans, and correct any problems that you find. 2. Look in the operating system error log for error codes that indicate a problem with a fan. Take the appropriate action for the error codes that you find.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
40200222	<p>Critical temperature reached</p> <p>The system will power itself down to standby when a critical temperature is reached. If this occurs, do the following:</p> <ol style="list-style-type: none"> 1. Check the connections on the fan, and correct any problems that you find. 2. Verify that the airflow to the fan is not blocked, and correct any problems that you find. 	
40210100	<p>A fan was failing but recovered</p> <p>Informational message. A replacement fan was hot-plugged in place of a failing fan. The system will clear the rollup card LED.</p>	
40210111	<p>A fan failed</p> <p>Look at the rollup LED card to identify the fan that failed, then do the following:</p> <ol style="list-style-type: none"> 1. Check the connections on the fan, and correct any problems that you find. 2. Verify that the airflow to the fan is not blocked, and correct any problems that you find. 3. If you find no obvious problems, replace the fan. (For more information, see Removing and replacing parts in the model 185 and A50.) 	
40500111	<p>Loss of rollup LED card</p> <p>Reseat the rollup LED card. You can reseat the rollup LED card while the system is powered on, but the system might reset and reboot.</p>	

(432x, 660x, 671x, 673x) Disk unit reference codes

If the error is reported on the control panel, the unit reference code is characters 5 through 8 of the top 16 character line of function 11. If the error is reported on the console, the unit reference code is the 4 rightmost characters of word 1.

Find the unit reference code in the following table. If the failing item is a disk unit, go to Start Disk Service.

Attention: The 673x is a read cache. Perform all actions required for 673x as a disk drive and logic card except where separate 673x cache instructions are provided.

For more on the Failing Item column entries, see Table 2. Disk unit failing items details, which follows the reference code table below.

Table 1. (432x, 660x, 671x, 673x) Disk unit reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
102E	Out of alternate sectors for disk storage	DISKDRV

432x, 660x, 671x, 673x

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3002	Addressed device failed to respond to selection	DISKDRV STORIOA BACKPLN FI01106 FI01140
3010	Disk device returned wrong response to IOA	DISKDRV STORIOA FI01140 FI01141
3020	Storage subsystem configuration error If an MES is being installed, verify the configuration.	DISKDRV FI01106 STORIOA FI01140
3029	A device replacement has occurred No action required. This reference code is logged for information only.	
3100	Tape/optical or disk bus interface error occurred Perform DSKIP03.	DISKDRV STORIOA FI01106 FI01140
3109	IOA timed out a disk command	DISKDRV STORIOA FI01106 FI01140
3110	Disk bus interface error occurred Perform DSKIP03.	STORIOA DISKDRV FI01106 FI01140
3130	Device Licensed Internal Code The device is not supported with the level of code currently on the system. Contact your next level of support.	SVCDOCS
3131	Device or IOA Licensed Internal Code The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.	SVCDOCS
7000	Disk sector read error No action required. This reference code is logged for information only.	DISKDRV
7001	Temporary disk data error A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code. For more information, see Using the Service Action Log.	DISKDRV
7003	Device format error If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.	
7004	System log entry only. No service action required.	
7050	Data compression failure Contact your next level of support.	SVCDOCS



Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
7051	Compressed device and compression IOA are not compatible The customer should perform the procedure specified in “Recovering From 6xxx7051 SRC” in the Backup and Recovery Guide  .	CMPRES1
7052	Data compression warning The customer should perform the procedure specified in “Recovering From 6xxx7052 SRC” in the Backup and Recovery Guide  .	SVCDOS
70DD	System log entry only, no service action required	
FFF2	Disk motor problem	DISKDRV
FFF3	Disk media format not valid	DISKDRV
FFF4	Disk device problem	DISKDRV STORIOA
FFF5	Disk sector read error A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code. For more information, see Using the Service Action Log.	DISKDRV
FFF6	Disk device detected recoverable error A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code. For more information, see Using the Service Action Log.	DISKDRV
FFF7	Temporary disk data error No action required. This reference code is logged for information only.	DISKDRV
FFF8 to FFF9	Temporary disk data error A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code. For more information, see Using the Service Action Log.	DISKDRV
FFFA	Temporary disk bus error A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code. For more information, see Using the Service Action Log.	DISKDRV STORIOA FI01140 FI01141 BACKPLN
FFFB	SCSI bus reset occurred No action required. This reference code is logged for information only.	
FFFE	Temporary disk bus error A disk unit service action is recommended only if the Service Action Log contains an entry for this reference code. For more information, see Using the Service Action Log.	DISKDRV STORIOA FI01106 FI01140

Table 2. Disk unit failing items details

Failing Item	Description	Document Description
08F5352	Token-ring network adapter	Repair and Parts; removal and installation procedures

432x, 660x, 671x, 673x

Failing Item	Description	Document Description
08F5361	Communications input/output processor card	Repair and Parts; removal and installation procedures
17G2504	Tape Unit	Repair and Parts; removal and installation procedures
21F1511	Internal power cable	Repair and Parts; removal and installation procedures
21F1512	Internal power cable	Repair and Parts; removal and installation procedures
21F1512	Internal power cable	Repair and Parts; removal and installation procedures
21F1513	Internal signal cable	Repair and Parts; removal and installation procedures
21F1514	Internal power cable	Repair and Parts; removal and installation procedures
21F1519	Internal signal cable	Repair and Parts; removal and installation procedures
21F1530	Card enclosure	Repair and Parts; removal and installation procedures
21F1687	Diskette adapter card	Repair and Parts; removal and installation procedures
21F1688	Multiple function I/O processor card	Repair and Parts; removal and installation procedures
21F1689	Multiple function I/O processor card	Repair and Parts; removal and installation procedures
21F2070	Bus cable	Repair and Parts; removal and installation procedures
21F3986	Tape I/O processor card	Repair and Parts; removal and installation procedures
21F4383	Multiple function I/O processor card	Repair and Parts; removal and installation procedures
21F4493	Ethernet controller card	Repair and Parts; removal and installation procedures
21F4579	Disk drive logic card	Repair and Parts; removal and installation procedures
21F4863	Magnetic storage device IOP card	Repair and Parts; removal and installation procedures
21F4867	Communication adapter	Repair and Parts; removal and installation procedures
21F4868	Communication adapter	Repair and Parts; removal and installation procedures
21F4869	Token-ring controller card	Repair and Parts; removal and installation procedures
21F4882	Diskette adapter card	Repair and Parts; removal and installation procedures
21F4882	Diskette adapter card	Repair and Parts; removal and installation procedures
21F5620	Disk unit power regulator	Repair and Parts; removal and installation procedures

Failing Item	Description	Document Description
21F5620	Disk unit power regulator	Repair and Parts; removal and installation procedures
21F5650	AC Module	Repair and Parts; removal and installation procedures
21F5680	AC Module	Repair and Parts; removal and installation procedures
21F5772	Control panel	Repair and Parts; removal and installation procedures
21F5774	Cable assembly	Repair and Parts; removal and installation procedures
21F5774	External signal cable	Repair and Parts; removal and installation procedures
21F5861	Tape Unit	Repair and Parts; removal and installation procedures
21F8566	Tape Unit	Repair and Parts; removal and installation procedures
21F8633	Tape Unit	Repair and Parts; removal and installation procedures
21F8719	Tape Unit	Repair and Parts; removal and installation procedures
21F8872	Cable Carrier	Repair and Parts; removal and installation procedures
21F8890	D/SE Module	Repair and Parts; removal and installation procedures
21F9208	ISDN adapter card	Repair and Parts; removal and installation procedures
21F9215	Power regulator card	Repair and Parts; removal and installation procedures
21F9586	Cable assembly	Repair and Parts; removal and installation procedures
21F9907	Cable assembly	Repair and Parts; removal and installation procedures
21F9937	Cable assembly	Repair and Parts; removal and installation procedures
21F9951	Tape Unit	Repair and Parts; removal and installation procedures
21F9987	Tape unit IOP card	Repair and Parts; removal and installation procedures
2452557	Fan	9346 Service Guide; Installation and Removal, SY31-0688
26F5028	Communication adapter	Repair and Parts; removal and installation procedures
375892	Power cord; U.S.A., Asia-Pacific group, Americas group	
4234002	Test diskette (8 inch)	System operation information
46F4115	Ethernet network adapter card	Repair and Parts; removal and installation procedures

432x, 660x, 671x, 673x

Failing Item	Description	Document Description
46F4239	Token-ring network adapter	Repair and Parts; removal and installation procedures
55F5199	Disk drive logic card	Repair and Parts; removal and installation procedures
55F5209	Disk drive and logic card	Repair and Parts; Recovery Procedures
59X4718	Communications input/output processor card	Repair and Parts; removal and installation procedures
59X4723	Tape I/O processor card	Repair and Parts; removal and installation procedures
59X4723	Token-ring network adapter	Repair and Parts; removal and installation procedures
59X4723	Tape unit IOP card	Repair and Parts; removal and installation procedures
59X4819	Multiple function I/O processor card	Repair and Parts; removal and installation procedures
6369759	Test diskette (5-1/4 inch)	System operation information
6369881	Diskette unit	Repair and Parts; removal and installation procedures
6462385	Power cord; Europe, Mid-East, Asia	
6495268	External signal cable	9346 Service Guide; Installation and Removal, SY31-0688
72X5631	Terminating plug	9346 Service Guide; Installation and Removal, SY31-0688
72X5631	Terminating plug	Repair and Parts; removal and installation procedures
72X5631	Terminating plug	Repair and Parts; removal and installation procedures
72X6361	Diskette unit	Repair and Parts; removal and installation procedures
72X6374	Work station attachment	Repair and Parts; removal and installation procedures
72X6385	Magnetic storage device IOP card	Repair and Parts; removal and installation procedures
72X6386	Diskette adapter card	Repair and Parts; removal and installation procedures
72X6387	Communications I/O processor card	Repair and Parts; removal and installation procedures
72X6388	Communications adapter card	Repair and Parts; removal and installation procedures
72X6389	Multiple interface adapter	Repair and Parts; removal and installation procedures
72X6390	Communications adapter card	Repair and Parts; removal and installation procedures
72X6391	Token-ring network adapter	Repair and Parts; removal and installation procedures
73F8987	Disk drive and logic card	Repair and Parts; Recovery Procedures

Failing Item	Description	Document Description
73F8994	Disk drive logic card	Repair and Parts; removal and installation procedures
73F9138	Planar board	Repair and Parts; removal and installation procedures
73F9139	Planar board	Repair and Parts; removal and installation procedures
73F9166	Planar board	Repair and Parts; removal and installation procedures
73F9193	Power regulator card	Repair and Parts; removal and installation procedures
73F9232	Cable assembly	Repair and Parts; removal and installation procedures
73F9244	Disk unit power regulator	Repair and Parts; removal and installation procedures
73F9267	ASCII work station IOP card	Repair and Parts; removal and installation procedures
73F9290	Control panel	Repair and Parts; removal and installation procedures
73F9290	Control panel	Repair and Parts; removal and installation procedures
73F9345	Tape Unit	Repair and Parts; removal and installation procedures
73F9393	Tape Unit	Repair and Parts; removal and installation procedures
74F1541	Card enclosure	Repair and Parts; removal and installation procedures
74F1542	Card enclosure	Repair and Parts; removal and installation procedures
74F1543	Card enclosure	Repair and Parts; removal and installation procedures
74F1544	Card enclosure	Repair and Parts; removal and installation procedures
74F1649	Tape Unit	Repair and Parts; removal and installation procedures
74F1760	DC Bulk Module	Repair and Parts; removal and installation procedures
74F2201	Multiple function I/O processor card	Repair and Parts; removal and installation procedures
74F2232	Multiple function I/O processor card	Repair and Parts; removal and installation procedures
79X3795	Terminating plug	Repair and Parts; removal and installation procedures
8266352	Power supply	9346 Service Guide; Installation and Removal, SY31-0688
85F7295	Multiple function I/O processor card	Repair and Parts; removal and installation procedures
85F7305	Multiple function I/O processor card	Repair and Parts; removal and installation procedures

432x, 660x, 671x, 673x

Failing Item	Description	Document Description
85F7405	Base power supply	Repair and Parts; removal and installation procedures
85F7418	Cable assembly	Repair and Parts; removal and installation procedures
85F7646	Magnetic storage device IOP card	Repair and Parts; removal and installation procedures
85F7846	Terminating plug	Repair and Parts; removal and installation procedures
85F9785	Control panel	Repair and Parts; removal and installation procedures
85F9840	Internal signal cable	Repair and Parts; removal and installation procedures
85F9845	Internal power cable	Repair and Parts; removal and installation procedures
92X3030	Feature power supply	Repair and Parts; removal and installation procedures
92X3080	Disk unit power regulator	Repair and Parts; removal and installation procedures
92X4041	Diskette unit	Repair and Parts; removal and installation procedures
92X4044	Cable assembly	Repair and Parts; removal and installation procedures
92X4091	Cable assembly	Repair and Parts; removal and installation procedures
92X4143	Planar board	Repair and Parts; removal and installation procedures
92X6551	Planar board	Repair and Parts; removal and installation procedures
92X7512	Flex cable	9346 Service Guide; Installation and Removal, SY31-0688
92X7514	Internal tape unit signal cable	9346 Service Guide; Installation and Removal, SY31-0688
92X7515	Internal signal cable	9346 Service Guide; Installation and Removal, SY31-0688
92X7516	Internal power cable	9346 Service Guide; Installation and Removal, SY31-0688
93X0901	Disk drive logic card	Repair and Parts; removal and installation procedures
93X0911	Disk drive and logic card	Repair and Parts; Recovery Procedures
93X2520	Disk drive and logic card	Repair and Parts; Recovery Procedures
93X2701	I/O processor card	Repair and Parts; removal and installation procedures
93X2730	9346 IOP card	Repair and Parts; removal and installation procedures
93X2777	I/O processor card	Repair and Parts; removal and installation procedures
A0B00E1	Licensed Internal Code for programmable tape unit	Service Functions; APAR or LICTR

Failing Item	Description	Document Description
AJDG301	Vertical Licensed Internal Code	Service Functions; APAR or LICTR
AJEDA00	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
AJEDA00	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
AJEH901	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
AJGJQ01	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
AJSLC01	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
AJSLC01	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
BACKPLN	Card enclosure or backplane	See the service documentation for instructions.
COMPRES1	Compressed device and compression IOA are not compatible	See the service documentation for instructions.
DEVTERM	Device terminator	See the service documentation for instructions.
DISKDRV	Disk drive and logic card	See the service documentation for instructions.
DISKDRV	Disk drive and logic card	See the service documentation for instructions.
DISKDRV	Disk drive and logic card	See the service documentation for instructions.
DISKDRV	Disk drive and logic card	See the service documentation for instructions.
DISKDRV	Disk drive and logic card	See the service documentation for instructions.
DISKDRV	Disk drive and logic card	See the service documentation for instructions.
DISKDRV	Disk drive and logic card	See the service documentation for instructions.
DISKDRV	Disk drive and logic card	See the service documentation for instructions.
DISKLC	Disk drive logic card	See the service documentation for instructions.
DISKLC	Disk drive logic card	See the service documentation for instructions.
DISKLC	Disk drive logic card	See the service documentation for instructions.
DISKLC	Disk drive logic card	See the service documentation for instructions.
DISKLC	Disk drive logic card	See the service documentation for instructions.
DISKLC	Disk drive logic card	See the service documentation for instructions.
DISKLC	Disk drive logic card	See the service documentation for instructions.
DISKLC	Disk drive logic card	See the service documentation for instructions.
DISKTRY	Disk unit tray	See the service documentation for instructions.
DISKTRY	Disk unit tray	See the service documentation for instructions.
DISKTRY	Disk unit tray	See the service documentation for instructions.
DISKTRY	Disk unit tray	See the service documentation for instructions.
DISKTRY	Disk unit tray	See the service documentation for instructions.
DISKTRY	Disk unit tray	See the service documentation for instructions.
DISKTRY	Disk unit tray	See the service documentation for instructions.
MFGDMED	Defective diskette	System operation information
MFGTCAR	Defective tape or damaged cartridge	System operation information
MFGTFOR	The data format is incorrect; the tape cannot be read	System operation information
MFGTMED	Defective removable media	System operation information
STORIOA	Storage I/O adapter	See the service documentation for instructions.
SVCDOCS	Customer engineer directed to system problem analysis	See the service documentation for instructions.
UFGUSER	System Operator/User	System operation information

(4758) Reference codes

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (4758) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B990	I/O adapter hardware error detected	IOA FI00130 IOP MA_BRDG
B991	Tampering of cryptographic card suspected.	IOA FI00130 IOP
B992	Operating voltage and/or temperature range limits exceeded. Correct any conditions in the physical environment which may have caused the voltage and/or temperature out-of-range error on the 4758 adapter card. After the conditions have been corrected, vary off and then vary back on the 4758 device description associated with the 4758 adapter card.	CARDTMP

Table 2. Failing items details

Failing Item	Description	Document Description
CARDTMP	Operating voltage or temperature range limit exceeded	See the service documentation for instructions.
IOA	I/O adapter card	See the service documentation for instructions.
IOP	I/O processor card	See the service documentation for instructions.
MA_BRDG	Multi-adapter bridge	See the service documentation for instructions.

(4764) Reference codes

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (4764) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B990	I/O adapter hardware error detected	IOA AJDG301
B991	Tampering of cryptographic card suspected.	IOA AJDG301
B992	Operating voltage and/or temperature range limits exceeded. Correct any conditions in the physical environment which may have caused the voltage and/or temperature out-of-range error on the 4764 adapter card. After the conditions have been corrected, vary off and then vary back on the 4764 device description associated with the 4764 adapter card.	CARDTMP

Table 2. Failing items details

Failing Item	Description	Document Description
AJDG301	Licensed Internal Code	See the service documentation for instructions.
CARDTMP	Operating voltage or temperature range limit exceeded	See the service documentation for instructions.
IOA	I/O adapter card	See the service documentation for instructions.

(4812) Reference codes

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (4812) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6201	A permanent I/O processor failure occurred	IOA FI00730
6202	I/O processor Licensed Internal Code error	FI00730 IOA
6204	I/O adapter failure due to a thermal condition	IOA
6210	I/O processor Licensed Internal Code error	FI00730
6221	I/O processor resource not available	LICCODE DISKIMG
6222	A permanent I/O processor failure occurred	FI00730 IOA
6223	A permanent I/O processor failure occurred	IOA FI00730
6225	A permanent I/O processor failure occurred	FI00730 LICCODE IOA
6226	A Virtual SCSI error was detected	LICCODE AS4NTDD FI00730
6227	Windows initiated a warm boot	NTUSER FI00730 IOA
6228	Windows initiated a warm boot	FI00730 IOA
6501	A Windows fatal error occurred	IOA FI00730
6502	A Windows fatal error occurred	FI00730 IOA
6530	A Virtual SCSI error was detected	NTVSCSI NTOPSYS
6531	A Virtual SCSI error was detected	NTVSCSI AS4NTDD NTOPSYS FI00730
6532	A Virtual SCSI error was detected	NTOPSYS FI00730 AS4NTDD

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6533	A Virtual SCSI error was detected	NTUSER NTOPSYS AS4NTDD
6534	A Virtual SCSI error was detected	AS4NTDD FI00730 NTOPSYS
6535	A Virtual SCSI error was detected	NTUSER NTDEVDR FI00730
6538	A Virtual SCSI error was detected	NTVSCSI NTOPSYS
6539	A Virtual SCSI error was detected	NTVSCSI AS4NTDD NTOPSYS FI00730
653A	A Virtual SCSI error was detected	NTOPSYS FI00730 AS4NTDD
653B	A Virtual SCSI error was detected	NTUSER NTOPSYS AS4NTDD
653C	A Virtual SCSI error was detected	AS4NTDD FI00730 NTOPSYS
653D	A Virtual SCSI error was detected	NTUSER NTDEVDR FI00730
653F	A Virtual SCSI error was detected	NTDEVDR NTOPSYS LICCODE
6540	A Virtual SCSI error was detected	NTVSCSI FI00730 LICCODE
6541	A permanent I/O processor failure occurred	IOA FI00730
6542	Licensed Internal Code error detected.	LICCODE FI00730
6543	A Windows fatal error occurred	NTOPSYS NTVSCSI
6580	A Windows fatal error occurred	NTOPSYS NTVSCSI DISKIMG IOA FI00730
B4B0	I/O adapter hardware error detected	IOA
B4B1, B4B4	I/O adapter hardware error detected	IOA MEMORY
B4B5	An I/O adapter failure occurred.	FI00730 IOA
B4B8	Adapter card storage error	MEMORY IOA

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B4B9	An I/O adapter failure occurred.	IOA
B4BC	I/O adapter error; logged only.	IOA
B4BE	Adapter card storage error	MEMORY IOA
B904	A permanent I/O processor failure occurred	FI00730 IOA
B960	I/O processor Licensed Internal Code error	FI00730 IOP

Table 2. Failing items details

Failing Item	Description	Document Description
AS4NTDD	Device Driver	See the service documentation for instructions.
DISKIMG	Server Storage Space Object	See the service documentation for instructions.
IOA	I/O adapter card	Repair and Parts; removal and installation procedures
IOP	I/O adapter card	Repair and Parts; removal and installation procedures
LICCODE	SLIC Licensed Internal Code	Service Functions; APAR or LICTR
MA_BRDG	Multi-adapter bridge	See the service documentation for instructions.
MEMORY	Storage card	See the service documentation for instructions.
MEMORY	DIMM in first populated DIMM position - DIMM 0 or DIMM 1	See the service documentation for instructions.
NTDEVDR	Device Driver	See the service documentation for instructions.
NTLANDD	Device Driver	See the service documentation for instructions.
NTOPSYS	Windows Operating System	See the service documentation for instructions.
NTUSER	User-initiated action	See the service documentation for instructions.
NTVSCSI	Device Driver	See the service documentation for instructions.

(4B20) Model 185 and A50 reference (error) codes

The system detected a problem with a processor.

Table 1. (4B20) Model 185 and A50 reference (error) codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
4B200111	A checkstop occurred If this error code only occurs once, it is not a problem. If this error code persists, replace the system backplane.	SYSBKP2
4B200120	Processor 0 failed to initialize On a two-way system, this error implies that one processor is still functioning, and the system will continue to operate in a degraded mode. At some point, you should replace the system backplane.	SYSBKP2

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
4B200121	Processor 1 failed to initialize On a two-way system, this error implies that one processor is still functioning, and the system will continue to operate in a degraded mode. At some point, you should replace the system backplane.	SYSBKP2
4B200122	No processors were detected	SYSBKP2

(5700, 5701) Reference codes

1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.
2. Look at the last 8 characters of the top 16 character line of function 12 (word 3). These 8 characters are the direct select address of the card (BBBBcbb). The unit address portion of the card address is characters 1 through 8 of the bottom 16 character line of function 11 (Word 4). Card locations can be found using the 16 character address. See SRC Address Formats.
3. Find the unit reference code in the following table.

For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (5700, 5701) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
A001	I/O adapter Licensed Internal Code error detected	AJDGP01
B9A0	I/O adapter hardware error detected	FI00719 FI00718 AJDGP01 MA_BRDG
B9B0	I/O adapter hardware error detected	FI00719 LICCODE MA_BRDG

Table 2. Failing items details

Failing Item	Description	Document Description
AJDGP01	LIC - Input/Output Processor Licensed Internal Code	Service Functions; APAR or LICTR
LICCODE	Licensed Internal Code	See the service documentation for instructions.
MA_BRDG	Multi-adapter bridge	See the service documentation for instructions.

(5706, 5707) Reference codes

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (5706, 5707) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
A001	I/O adapter Licensed Internal Code error detected	AJDGP01
B9B0	I/O adapter hardware error detected	IOA AJDGP01

Table 2. Failing items details

Failing Item	Description	Document Description
AJDGP01	I/O card Licensed Internal Code	See the service documentation for instructions.
IOA	Communications adapter card	See the service documentation for instructions.

(5708, 574F, 575B) Reference codes

If the error is reported on the control panel, the unit reference code is characters 5 through 8 of the top 16 character line of function 11. If the error is reported on the console, the unit reference code is the 4 rightmost characters of word 1.

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (5708, 574F, 575B) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1310	I/O adapter resource not available The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.	
3006	System bus error	AUXIOA ANYBRDG IOP
3100	Interface error Error occurred on SCSI bus 0.	AUXCBL AUXIOA PRIMIOA
3101	Interface error Error occurred on SCSI bus 1.	AUXCBL AUXIOA PRIMIOA
3400	SCSI resource error	AUXCBL PRIMIOA
6075	I/O processor resource not available	PTFSRCH
8008	A permanent cache battery pack failure occurred NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.	CACHBAT AUXIOA
8009	Impending cache battery pack failure	CACHBAT

5708, 574F, 575B

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
8130	IOA detected recoverable SCSI bus error An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.	
8131	IOA detected recoverable SCSI bus error An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.	
8140	IOA detected recoverable SCSI bus error No action is required. This reference code is logged for information only.	
8141	IOA detected recoverable SCSI resource error No action is required. This reference code is logged for information only.	
8145	A recoverable error occurred	AUXIOA
8150	A permanent failure occurred NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.	AUXIOA ANYBRDG
8151	Licensed Internal Code error	PTFSRCH AUXIOA
8155 to 8156	A permanent failure occurred	PTFSRCH AUXIOA
8157	I/O adapter card error Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to: 1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On. 2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources.	SVCDOCS
8300	IOA hardware or PCI bus error	AUXIOA ANYBRDG PTFSRCH
8301	Not valid condition in Licensed Internal Code	PTFSRCH AUXIOA
8302	Missing Licensed Internal Code Ensure that the code necessary to support this I/O adapter is loaded.	SVCDOCS AUXIOA
9055	Write cache data is available for attached storage IOA No service action required.	
9071	Link from IOA to auxiliary cache IOA went operational No service action required.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9072	Link from IOA to auxiliary cache IOA went non-operational No service action required.	
9073	Disconnected, incompatible, or non-operational storage IOA Perform IOPIP41.	SVCDOS
FF3D	I/O adapter detected a recoverable error	AUXIOA ANYBRDG

Table 2. Failing items details

Failing Item	Description	Document Description
AJDGP01	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
ANYBRDG	System I/O bus or any attached card	See the service documentation for instructions.
ANYBUS	IOP card bus error	See the service documentation for instructions.
AUXCBL	Cable assembly	See the service documentation for instructions.
AUXIOA	I/O adapter card	See the service documentation for instructions.
BACKPLN	Card Enclosure or Planar Board	See the service documentation for instructions.
CACHBAT	Cache battery pack	See the service documentation for instructions.
DEVBPLN	Device backplane	See the service documentation for instructions.
DEVTERM	Terminating plug	See the service documentation for instructions.
IOP	I/O processor card	See the service documentation for instructions.
PCIBUS	Any PCI card on the PCI bus	See the service documentation for instructions.
PRIMIOA	Storage I/O adapter	See the service documentation for instructions.
PTFSRCH	Licensed Internal Code	See the service documentation for instructions.
STORIOA	Storage I/O adapter	See the service documentation for instructions.
SVCDOS	Customer engineer directed to system problem analysis	See the service documentation for instructions.
USER	System Operator/User	See the service documentation for instructions.

(571A, 571B, 571E, 571F, 573D, 573E, 57FF) Reference codes

If the error is reported on the control panel, the unit reference code is characters 5 through 8 of the top 16 character line of function 11. If the error is reported on the console, the unit reference code is the 4 rightmost characters of word 1.

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (571A, 571B, 571E, 571F, 573D, 573E, 57FF) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1310	I/O adapter resource not available The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.	

571A, 571B, 571E, 571F, 573D, 573E, 57FF

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3000	A permanent failure occurred	FI01101 ANYBRDG
3006	System bus error	FI01101 ANYBRDG PTFSRCH
3020	SCSI bus configuration error Error occurred on SCSI bus 0. To correct or isolate a possible user error or configuration error, perform IOPIP17.	USER FI01107 STORIOA
3021	SCSI bus configuration error Error occurred on SCSI bus 1. To correct or isolate a possible user error or configuration error, perform IOPIP17.	USER FI01107 STORIOA
3022	SCSI bus configuration error Error occurred on SCSI bus 2. To correct or isolate a possible user error or configuration error, perform IOPIP17.	USER FI01107 STORIOA
3023	SCSI bus configuration error Error occurred on SCSI bus 3. To correct or isolate a possible user error or configuration error, perform IOPIP17.	USER FI01107 STORIOA
3100	Interface error Error occurred on SCSI bus 0. Perform IOPIP13.	FI01107 STORIOA FI01140 DEVBPLN
3101	Interface error Error occurred on SCSI bus 1. Perform IOPIP13.	FI01107 STORIOA FI01140 DEVBPLN
3102	Interface error Error occurred on SCSI bus 2. Perform IOPIP13.	FI01107 STORIOA FI01140 DEVBPLN
3103	Interface error Error occurred on SCSI bus 3. Perform IOPIP13.	FI01107 STORIOA FI01140 DEVBPLN
3120	Bus is not operational Adding a device to SCSI bus 0 of the I/O Adapter caused the bus to become not operational. Remove the device.	SVCDOS
3121	Bus is not operational Adding a device to SCSI bus 1 of the I/O Adapter caused the bus to become not operational. Remove the device.	SVCDOS
3122	Bus is not operational Adding a device to SCSI bus 2 of the I/O Adapter caused the bus to become not operational. Remove the device.	SVCDOS

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3123	Bus is not operational Adding a device to SCSI bus 3 of the I/O Adapter caused the bus to become not operational. Remove the device.	SVCDOS
3140	Bus is operational This reference code and the 3120 reference code that occurred before it require no service action because SCSI bus 0 is now operational.	
3141	Bus is operational This reference code and the 3121 reference code that occurred before it require no service action because SCSI bus 1 is now operational.	
3142	Bus is operational This reference code and the 3122 reference code that occurred before it require no service action because SCSI bus 2 is now operational.	
3143	Bus is operational This reference code and the 3123 reference code that occurred before it require no service action because SCSI bus 3 is now operational.	
3150	SCSI bus configuration error Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.	SVCDOS
3151	SCSI bus configuration error Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.	SVCDOS
3200	A tape/CD or disk device reported a failure	FI01105 STORIOA MEDIA
3202	Storage subsystem configuration error The device is not supported in the current configuration. An I/O processor might be required.	SVCDOS
3400	Device error NOTE: If external devices are attached check EXTSCSI and DEVTERM first.	FI02112 STORIOA FI01106 FI01140
3401	Device backplane problem	DEVBPLN
3501	Licensed Internal Code error The device type is either unsupported or the code has not been loaded to support it.	FI01105 PTFSRCH
3601	System log entry only, no service action required	
8008	A permanent cache battery pack failure occurred NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.	CACHBAT STORIOA
8009	Impending cache battery pack failure	CACHBAT

571A, 571B, 571E, 571F, 573D, 573E, 57FF

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
8100	Licensed Internal Code error	PTFSRCH STORIOA
8130	IOA detected recoverable device bus error An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.	
8131	IOA detected recoverable device bus error An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.	
8132	IOA detected recoverable device bus error An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.	
8133	IOA detected recoverable device bus error An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.	
8140	IOA detected recoverable device bus error No action is required. This reference code is logged for information only.	
8141	IOA detected recoverable device error No action is required. This reference code is logged for information only.	
8145	A recoverable error occurred	STORIOA
8146	Disk device detected recoverable error	FI01105
8150	A permanent failure occurred NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.	STORIOA ANYBRDG
8151	Licensed Internal Code error	PTFSRCH STORIOA
8155 to 8156	A permanent failure occurred	PTFSRCH STORIOA
8157	I/O adapter card error Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to: 1. If the I/O processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On. 2. If disk units are not attached, perform the "VRYCFG RESET(*YES)" command to reset the IOP and Vary On attached resources.	SVCDOCS
8300	IOA hardware error or PCI bus error	STORIOA ANYBRDG PTFSRCH

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
8301	Not valid condition in Licensed Internal Code	PTFSRCH STORIOA
8302	Missing Licensed Internal Code Ensure that the code necessary to support this I/O adapter is loaded.	SVCDOCS STORIOA
8400	Licensed Internal Code error	PTFSRCH
8404	System log entry only, no service action required	
9000	Device error	FI01105 STORIOA
9001	Device configuration error Perform IOPIP33.	SVCDOCS
9002	Device error Perform IOPIP16.	FI01105 STORIOA FI01140 BACKPLN FI01106
9008	I/O card does not support functions expected by devices Perform IOPIP25.	SVCDOCS
9009	Call your next level of support for assistance	SVCDOCS
9010	Cache data associated with attached devices cannot be found Perform IOPIP31.	SVCDOCS
9011	Cache data belongs to devices other than those attached Perform IOPIP32.	SVCDOCS
9020 to 9021	Array not functional due to present hardware configuration. Perform IOPIP20.	SVCDOCS
9022 to 9024	Array not functional due to present hardware configuration. Perform IOPIP22.	SVCDOCS
9025	Disk unit is not supported at its physical location. Perform IOPIP21.	SVCDOCS
9026	Array not functional due to present hardware configuration. Perform IOPIP22.	SVCDOCS
9027	Array not functional due to present hardware configuration. Perform IOPIP34.	SVCDOCS
9028	Incorrect hardware configuration change has been detected. Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.	SVCDOCS
9029	Incorrect hardware configuration change has been detected. Contact your next level of support.	SVCDOCS

571A, 571B, 571E, 571F, 573D, 573E, 57FF

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
902F	<p>Array addendum Product Activity Log entry</p> <p>This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.</p>	
9030	<p>Array no longer protected due to missing or failed disk unit</p> <p>Perform IOPIP21.</p>	FI02112 SVCDOCS
9031	<p>Automatic rebuild initiated for array</p> <p>Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.</p>	
9032	<p>A disk unit in an array is missing or failed</p> <p>The array is still protected, but the disk unit should be replaced.</p> <p>Perform IOPIP21.</p>	FI02112 SVCDOCS
9040	<p>Array protection temporarily suspended</p> <p>No action required. Protection will be automatically restarted.</p>	
9041	<p>Background array parity check detected and corrected errors</p> <p>Call your next level of support to report the problem.</p>	PTFSRCH
9042	<p>An array parity error has been detected and corrected</p> <p>Call your next level of support to report the problem.</p>	NEXTLVL
9050	<p>Required cache data cannot be located for a disk unit.</p> <p>Perform IOPIP30.</p>	SVCDOCS
9051	<p>Cache data exists for a missing or failed device</p> <p>If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.</p> <p>Otherwise, perform IOPIP27.</p>	SVCDOCS
9052	<p>Cache data exists for device that has been modified.</p> <p>Contact your next level of support.</p>	SVCDOCS
9053	<p>IOA resources not available due to previous problems</p> <p>Take action on other reference codes which have surfaced.</p> <p>If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.</p>	SVCDOCS
9054	<p>IOA resources not available due to previous problems</p> <p>Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.</p> <p>Look for Product Activity Log entries for other reference codes and take action on them.</p>	SVCDOCS

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9071	Link from IOA to auxiliary cache IOA went operational No service action required.	
9072	Link from IOA to auxiliary cache IOA went non-operational No service action required.	
9073	Incompatible or non-operational auxiliary cache IOA attached Perform IOPIP40.	SVCDOS
9081	Device error	FI01105 STORIOA
9082	Device error Perform IOPIP16.	FI01105 STORIOA FI01140 BACKPLN FI01106
9090	Disk unit has been modified after the last known status. Re-IPL the system. If any reference codes are surfaced, go to List of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.	SVCDOS
9091	Incorrect hardware configuration change has been detected. Re-IPL the system. If any reference codes are surfaced, go to List of system reference codes and use the new reference code as the entry point to the problem. If you cannot resolve the problem, contact your next level of support.	SVCDOS
9092	Disk unit requires initialization before use. Perform IOPIP26.	SVCDOS
9902	System log entry only, no service action required	
C000	System log entry only, no service action required No action is required. This reference code is logged for information only.	
C402	Licensed Internal Code error Ask your next level of support for assistance.	PTFSRCH
FF3D	I/O adapter detected a recoverable error	STORIOA ANYBRDG
FF6D	Recoverable system bus error	STORIOA ANYBRDG PTFSRCH

Table 2. Failing items details

Failing Item	Description	Document Description
AJDG301	Vertical Licensed Internal Code	Service Functions; APAR or LICTR
AJDGP01	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
AJDGP01	I/O card Licensed Internal Code	Service Functions; APAR or LICTR

571A, 571B, 571E, 571F, 573D, 573E, 57FF

Failing Item	Description	Document Description
ANYBRDG	System I/O bus or any attached card	See the service documentation for instructions.
ANYBUS	IOP card bus error	See the service documentation for instructions.
BACKPLN	Card Enclosure or Planar Board	See the service documentation for instructions.
CACHBAT	Cache battery pack	See the service documentation for instructions.
CACHE	Cache adaptor card	See the service documentation for instructions.
COMPRES1	Compressed device and compression IOA are not compatible	See the service documentation for instructions.
CTLPNL	Control panel, or the interface to the Control panel	See the service documentation for instructions.
DEVBPLN	Device backplane	See the service documentation for instructions.
DEVTERM	Terminating plug	See the service documentation for instructions.
FCIOA	Fibre Channel IOA	See the service documentation for instructions.
IOACNFG	Configuration error	See the service documentation for instructions.
IOP	I/O processor card	See the service documentation for instructions.
MA_BRDG	Multi-adapter bridge	See the service documentation for instructions.
MEDIA	Defective media	See the service documentation for instructions.
NEXTLVL	Call your next level of support for assistance	See the service documentation for instructions.
OPT_CLN	Fiber optic cleaning kit	See the service documentation for instructions.
PCIBUS	Any PCI card on the PCI bus	See the service documentation for instructions.
PTFSRCH	Licensed Internal Code	See the service documentation for instructions.
STORIOA	Storage I/O adapter	See the service documentation for instructions.
SVCDOCS	Customer engineer directed to system problem analysis	See the service documentation for instructions.
USER	System Operator/User	See the service documentation for instructions.

(573A, 576A) Reference codes

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (573A, 576A) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B9B0	I/O adapter hardware error detected	IOA AJDG301

Table 2. Failing items details

Failing Item	Description	Document Description
AJDG301	Licensed Internal Code	See the service documentation for instructions.
IOA	Communications adapter card	See the service documentation for instructions.

(573B) Reference codes

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (573B) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
A6D9	I/O adapter hardware error detected	IOA FI00722 AJDG301
A6E3	Ethernet adapter or network device cabling error.	FI00722 UJE40 IOA
B100	I/O adapter hardware error detected	IOA AJDG301
B200	I/O adapter hardware error detected	AJDG301 IOA
B300	I/O adapter hardware error detected	IOA AJDG301

Table 2. Failing items details

Failing Item	Description	Document Description
AJDG301	Licensed Internal Code	See the service documentation for instructions.
IOA	Communications adapter card	See the service documentation for instructions.
UJE40	Network Termination, Network or Network devices	Communications Configuration

(573C) Reference codes

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (573C) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
A6D9	I/O adapter hardware error detected	IOA FI00722 AJDG301
A6E3	Ethernet adapter or network device cabling error.	FI00722 UJE40 IOA
B100	I/O adapter hardware error detected	IOA AJDG301
B200	I/O adapter hardware error detected	AJDG301 IOA
B300	I/O adapter hardware error detected	IOA AJDG301

Table 2. Failing items details

Failing Item	Description	Document Description
AJDG301	Licensed Internal Code	See the service documentation for instructions.
IOA	Communications adapter card	See the service documentation for instructions.

Failing Item	Description	Document Description
UJE40	Network Termination, Network or Network devices	Communications Configuration

(6320, 6321, 632B, 632C, 6330, 6331, 6333, 6336, 6337) Optical storage unit reference codes

An optical storage unit failure occurred.

Notes:

1. If the system is available, use online diagnostic tests when possible.
2. Use the Hardware Service Manager (HSM) verify function (via DST or SST) and verify that the unit is operating correctly.
3. Search the problem log (**WRKPRB**) for a recent optical storage entry that may assist in analyzing the problem. The WRKPRB entry will provide a unit reference code that can be found in the following table.

Perform the following:

1. If the system is available, attempt the failing operation again with an optical media that is known to be good.

Does the operation complete successfully?

- **Yes:** The original optical media may be defective, or the problem may be intermittent.

Attempt the failing operation again with the original optical media to verify.

This ends the procedure.

- **No:** Look at the 4 rightmost characters of the Data display for word 1. These 4 characters are the unit reference code. Find the unit reference code in the following table.

For more on the Failing Item column entries, see Table 2. Optical storage unit failing items details, which follows the reference code table below.

Table 1. (6320, 6321, 6330, 6331, 6333, 6336, 6337) Optical storage unit reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
C000	System log entry only, no service action required No action is required. This reference code is logged for information only.	
C002	SCSI selection or reselection timeout occurred	FI00870 CNVTCRD FI01106 STORIOA MEDIA FI01141 FI01140
C010	Undefined sense key returned by device	FI00870
C020	Device internal configuration error	FI00870
C100	SCSI bus command error occurred	FI00870 CNVTCRD FI01106 STORIOA MEDIA FI01141 FI01140

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
C110	SCSI command timeout occurred	FI00870 CNVTCRD FI01106 STORIOA MEDIA FI01141 FI01140
C210	Unexpected device condition recovered The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.	
C300	Media or device error occurred Perform the following: 1. Clean the disk. 2. Attempt the failing operation again. 3. If this does not correct the problem, exchange the failing items.	MEDIA FI00870
C301	Media or device error occurred Dust check encountered. The optical media or the optical lens of the drive is dirty. Clean the optical drive and the media contained in the drive.	
C302	Media or device error occurred The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable. Clean the optical drive and the media contained in the drive.	
C303	Media had an unknown format No action required. This reference code is logged for information only.	
C333	Incompatible media was detected Perform the following: 1. Verify that the disk has a supported format. 2. If the format is supported, clean the disk and attempt the failing operation again. 3. If the operation fails again and results in the same reference code, ask your media source for a replacement disk.	MEDIA FI00870
C400	Interface error detected by device	FI00870 CNVTCRD FI01106 STORIOA FI01140 FI01141
C402	Licensed Internal Code error Ask your next level of support for assistance.	FI00130
CFF2	Recovered from device not ready - Start Unit issued The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.	

6320, 6321, 632B, 632C, 6330, 6331, 6333, 6336, 6337

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
CFF4	Internal device error occurred	FI00870 MEDIA
CFF6	Device successfully recovered from a temporary error No action is required. This reference code is logged for information only.	
CFF7	Recovered device error The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.	
CFFE	Recovered SCSI bus error The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.	
FF09	Licensed Internal Code for optical device was not upgraded This reference code is logged for information only.	
FF3D	Recovered IOA error The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.	
FF6D	Recovered System bus error The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.	

Table 2. (6320, 6321, 6330, 6331, 6333, 6336, 6337) Optical storage unit failing items details

Failing Item	Description	Document Description
46G3532	CD-ROM device with tray	Repair and Parts; removal and installation procedures
88G4918	CD-ROM device, Apex part	Repair and Parts; removal and installation procedures
CDTRAY	Flex cable on tray assembly	See the service documentation for instructions.
CNVTCRD	Converter card	See the service documentation for instructions.
DEVTERM	Bus Terminator	See the service documentation for instructions.
MEDIA	Optical Media	System operation information
STORIOA	Storage I/O adapter	See the service documentation for instructions.

Table 3. (632B) Optical storage unit reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
CFC1	Virtual media list access problem A virtual optical device cannot access the file containing the list of volumes. On this partition and the Network File System server, ensure the proper file is specified and proper authority is granted.	SVCDPCS

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
CFC2	<p>Error reading virtual volume list</p> <p>A non-recoverable error was detected while reading the list of volumes.</p> <p>Check for errors on the Network File System server and resolve them. Then retry the operation. If the failure reoccurs, contact your hardware service provider.</p>	SVCDPCS
CFC3	<p>Virtual media volume list is not valid</p> <p>The data in the list of volumes is not valid.</p> <p>On the Network File System server, ensure that the proper file is specified, that all files are entered correctly, that there are no blank lines, and that the character set used is valid.</p>	SVCDPCS
CFC4	<p>Virtual optical volume access problem</p> <p>A virtual optical device cannot access the file containing the specified optical volume.</p> <p>On the Network File System server, ensure the proper file is specified in the list of volumes, and that the proper authority is granted.</p>	SVCDPCS
CFC5	<p>Error reading virtual optical volume</p> <p>A non-recoverable error was detected while reading a virtual optical volume.</p> <p>Check for errors on the Network File System server and resolve them. Then retry the operation. If the failure reoccurs, contact your hardware service provider.</p>	SVCDPCS
CFC6	<p>Virtual optical volume is not valid</p> <p>The file specified does not contain data that can be processed as a virtual optical volume.</p> <p>On the Network File System server, ensure all the files specified in the list of optical volumes are correct.</p>	SVCDPCS
CFC7	<p>Virtual optical device detected error</p> <p>A virtual optical device detected an error reported by the Network File System server that cannot be recovered.</p> <p>Check for errors on the Network File System server and resolve them. Then retry the operation. If the failure reoccurs, contact your hardware service provider.</p>	SVCDPCS
CFC8	<p>Virtual optical device error</p> <p>A virtual optical device encountered a non-recoverable error.</p> <p>Contact your next level of support for assistance.</p>	NEXTLVL

Table 4. (632B) Optical storage unit failing items details

Failing Item	Description	Document Description
NEXTLVL	Call your next level of support for assistance	Call your next level of support for assistance
SVCDPCS	Customer engineer directed to system problem analysis	See the service documentation for instructions.

Table 5. (632C) Optical storage unit reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
C000	System log entry only, no service action required No action is required. This reference code is logged for information only.	
C002	SCSI selection or reselection timeout occurred Refer to the hosting partition for problem analysis.	
C010	Undefined sense key returned by device Refer to the hosting partition for problem analysis.	
C020	Device internal configuration error Refer to the hosting partition for problem analysis.	
C100	SCSI bus command error occurred Refer to the hosting partition for problem analysis.	
C110	SCSI command timeout occurred Refer to the hosting partition for problem analysis.	
C210	Unexpected device condition recovered The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.	
C300 to C302	Media or device error occurred Refer to the hosting partition for problem analysis.	
C303	Media had an unknown format No action required. This reference code is logged for information only.	
C333	Incompatible media was detected Perform the following: 1. Verify that the disk has a format that is given support. 2. If the format is given support, clean the disk and attempt the failing operation again. 3. If the operation fails again with the same reference code, ask your media source for a replacement disk.	
C400	Interface error detected by device Refer to the hosting partition for problem analysis.	
C402	Licensed Internal Code program error occurred Ask your next level of support for assistance.	PTFSRCH
CFF2	Recovered from device not ready - Start Unit issued The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.	
CFF4	Internal device error occurred Refer to the hosting partition for problem analysis.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
CFF6	The device successfully recovered from a temporary error No action is required. This reference code is logged for information only.	
CFF7	Recovered device error The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.	
CFFE	Recovered SCSI bus error The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.	
FF3D	Recovered IOA error The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.	
FF6D	Recovered System bus error The device successfully recovered from a temporary error. No action is required. This reference code is logged for information only.	

Table 6. (632C) Optical storage unit failing items details

Failing Item	Description	Document Description
46G3532	CD-ROM device with tray	Repair and Parts; removal and installation procedures
88G4918	CD-ROM device, Apex part	Repair and Parts; removal and installation procedures
CDTRAY	Flex cable on tray assembly	See the service documentation for instructions.
DEVTERM	Bus Terminator	See the service documentation for instructions.
MEDIA	Optical Media	System operation information
PTFSRCH	Licensed Internal Code	See the service documentation for instructions.

(6A59) Workstation adapter console reference codes

The workstation adapter console detected a failure.

Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code. Find the unit reference code in the following table.

For more on the Failing Item column entries, see Table 2. Workstation adapter console failing items Details, which follows the reference code table below.

Table 1. (6A59) Workstation adapter console reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0AD2 to 0AD3	Communications adapter card test failed	FI00718

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0B25	Communications adapter card test failed	FI00719 FI00718 FI00727
0BA0, 0BAB, 0BB0, 0BD0 to 0BD1	Communications adapter card test failed	FI00719 FI00718
0BEE	I/O card Licensed Internal Code ended abnormally	FI00719 FI00718
0C10	Communications adapter card test failed	FI00719 FI00718 FI00727
0C20	Communications adapter card test failed	FI00719 FI00718
0C30	Adapter card failed modem interface test	FI00719 FI00718
0C40, 0C43	Synchronous-data-link-control send-receive test failed	FI00719 FI00718
0C50, 0C53	Binary synchronous control send-receive test failed	FI00719 FI00718
0C60, 0C63	Asynchronous send-receive test failed	FI00719 FI00718
0C70, 0C80	Communications adapter card test failed	FI00719 FI00718
0C90	Communications adapter card X.21 test failed	FI00719 FI00718
0CA1, 0CC0	Communications adapter card test failed	FI00719 FI00718
5007	Diagnostic wrap test completed; no errors detected	
5008	Diagnostic wrap test completed; error was detected	FI00719 DPAC FI00718
FFFF	User suspected communications problem.	UNAUPPR

Table 2. Workstation adapter console failing items details

Failing Item	Description	Document Description
DPAC	Communications two-port adapter cable	Problem Analysis; Symbolic FRU Isolation
UNAUPPR	User suspected problem	

(7208) Tape drive reference codes

A tape or tape library device failure occurred.

Note: Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs that you find in the Serviceable Event View. If you cannot locate an error log in the Serviceable Event View that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.

3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?
 - **Yes:** You have corrected the problem. **This ends the procedure.**
 - **No:** Is the failing tape unit located in a type 9427 Tape Library device?
 - **Yes:** Go to “(9427) Tape unit reference codes” on page 163.
 - **No:** Look at the 4 rightmost characters of the Data display for Function 11, which represent the unit reference code. Find the unit reference code in the following table.

Table 1. (7208) Model 012 Tape drive reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0001	<p>Tape unit failure</p> <p>The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking.</p> <p>Perform TU-PIP2.</p>	46G2227 ML2TMED
030B	<p>Tape unit detected a read error on the tape medium</p> <p>Read (or write) errors may be caused by:</p> <ul style="list-style-type: none"> • Poor or damaged tape • Dirty read/write heads • Damaged data cartridges • Using a data cartridge previously recorded in a format or density that is not correct • Using the wrong data cartridge (for example, one in a different format or density from another set of data cartridges) <p>If the data on the tape was not written by i5/OS®, the format or the density may not be correct. Get or make a new copy of the data cartridge.</p> <p>If you are performing a write or a save operation, initialize the tape. See the note below.</p> <p>If you are performing a read or a restore operation, the tape may be worn or the device that wrote the tape may be the cause of the problem.</p> <p>Perform TU-PIP2.</p> <p>When the system is available, perform the following:</p> <ul style="list-style-type: none"> • Verify the operation of the tape drive. Use the VFYTAP system command. <p>Note: When a tape is initialized, a new label is recorded at the beginning of the tape, and any data recorded previously is erased and overwritten. To initialize used tapes, use the INZTAP system command with “Check for active files” option of *NO.</p> <p>Use of the INZTAP “Clear” (security erase) option is not recommended. The 7208 Tape Drive performs a write operation to erase all of the tape; writing (erasing) a full-size tape takes up to 3.5 hours.</p>	ML2TMED 46G2227 46G3934 42F7300
0311, 0316	<p>Tape unit detected a read error on the tape medium</p> <p>Perform the Action for reference code 030B.</p>	ML2TMED 46G2227 46G3934 42F7300

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
031C	<p>The data format is incorrect; the tape cannot be read</p> <p>The tape format is not known or not compatible. The data cartridge may not have been recorded using i5/OS.</p> <p>Get another copy of the data cartridge recorded in a format and density given support by i5/OS.</p>	ML2TMED 46G2227
0336	<p>The data format is incorrect; the tape cannot be read</p> <p>The tape format is not known or not compatible. The data cartridge may not have been recorded using i5/OS.</p> <p>Get another copy of the data cartridge recorded in a format and density given support by i5/OS.</p>	ML2TMED 46G2227 46G3934 42F7300
0337 to 0338, 033D	<p>Tape unit detected a read error on the tape medium</p> <p>Perform the Action for reference code 030B.</p>	ML2TMED 46G2227 46G3934 42F7300
0395 to 0397, 039D to 039F	<p>Tape unit detected a write error on tape medium</p> <p>Perform the Action for reference code 030B.</p>	ML2TMED 46G2227
03AE, 03B0	<p>Tape unit detected a read or write error on tape medium</p> <p>Perform the Action for reference code 030B.</p>	ML2TMED 46G2227
03B3 to 03B4	<p>Tape unit detected a write error on tape medium</p> <p>Perform the Action for reference code 030B.</p>	ML2TMED 46G2227
03B5	<p>Tape unit detected a read error on the tape medium</p> <p>Perform the Action for reference code 030B.</p>	ML2TMED 46G2227
0417 to 0419, 0458, 045A, 0467 to 0468, 046D, 0498 to 049A, 049C, 04A1 to 04A8, 04AB to 04AD, 04FA, 04FC to 04FD	<p>Tape unit failure</p> <p>The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking.</p> <p>Perform TU-PIP2.</p>	46G2227 ML2TMED 46G3934 42F7300
3002	<p>I/O processor addressed the tape unit; no response</p> <p>The tape drive did not respond to commands from the IOP. Perform the following:</p> <ol style="list-style-type: none"> 1. Ensure that the system interface cable is connected. 2. Ensure that power is on. <p>If the above items are correct, call your next level of support</p>	46G2227 46G3934 FI00830 FI00141 46G2599 17G1500 42F7300
3004	<p>Tape unit failed after Licensed Internal Code was loaded</p> <p>The tape drive does not respond to IOP commands after new Licensed Internal Code was transferred to the tape drive.</p> <p>Perform TU-PIP4.</p>	46G2227

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3005	<p>Blank tape or BOT encountered</p> <p>The tape drive has found a blank tape or BOT.</p> <p>When using a new data cartridge, the tape must first be initialized.</p> <p>This error can also occur when reading a tape if that tape was removed from the tape drive before writing was complete.</p> <p>Also see the Action for reference code 030B.</p>	ML2TMED 46G2227 AJEDA00
3010	<p>Illegal or unsupported tape unit response</p> <p>The tape drive returned a response to the IOP that is illegal or is not given support.</p> <p>Call your next level of support</p>	46G2227 AJEDA00
3100	<p>Interface error detected by I/O processor or by tape unit</p> <p>The IOP or the device detected a permanent error on the interface to the system.</p> <p>Call your next level of support</p>	46G2227 FI00141 FI00830 46G2599 42F7300 17G1500 46G3934 AJEDA00
3110	<p>Tape unit command timeout</p> <p>The tape drive did not complete a command sent by the IOP in the time allowed.</p> <p>Call your next level of support</p>	46G2227 FI00141 FI00830 46G2599 42F7300 17G1500 46G3934 AJEDA00
4016 to 4017	Licensed Internal Code for the tape unit is not correct	AJEDA00
9020	<p>I/O processor detected a SCSI bus configuration error</p> <p>Before exchanging any parts, verify that the following conditions are not present:</p> <ul style="list-style-type: none"> • Tape and DASD devices attached to an I/O Processor that does not support attachment of both tape and DASD devices at the same time. • A device type or model that is not given support. 	UL2CNFG 46G2227 FI00130
9100	<p>Interface error detected by I/O processor or by tape unit</p> <p>Before exchanging any parts, do the following:</p> <ol style="list-style-type: none"> 1. Ensure that the device is powered on. 2. Ensure that the SCSI cable between the device and the I/O Processor or I/O Adaptor is seated correctly, and that there are no bent or damaged pins on the SCSI cable. 3. Ensure that a terminating plug is attached to the device. 	46G2227 FI00131 46G3934 FI00830 46G2599 17G1500

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9200	I/O processor addressed the tape unit; no response Before exchanging any parts, do the following: 1. Ensure that the device is powered on. 2. Ensure that the SCSI cable between the device and the I/O Processor or I/O Adaptor is seated correctly, and that there are not bent or damaged pins on the SCSI cable. 3. Ensure that the terminating plug is attached to the device.	46G2227 46G3934 FI00830 FI00131 46G2599 17G1500 42F7300
9201	Tape unit command timeout Before exchanging any parts, do the following: 1. Ensure that the device is powered on. 2. Ensure that the SCSI cable between the device and the I/O Processor or I/O Adaptor is seated correctly, and that there are not bent or damaged pins on the SCSI cable. 3. Ensure that the terminating plug is attached to the device.	46G2227 46G3934 FI00830 FI00131 46G2599 17G1500 42F7300
9202	Tape unit failed after Licensed Internal Code was loaded Before exchanging any parts, do the following: 1. Ensure that the device is powered on. 2. Ensure that the SCSI cable between the device and the I/O Processor or I/O Adaptor is seated correctly, and that there are not bent or damaged pins on the SCSI cable. 3. Ensure that the terminating plug is attached to the device.	46G2227 46G3934 FI00830 FI00131 46G2599 17G1500 42F7300
9210	Illegal or unsupported tape unit response	46G2227 FI00130 FI00131
9300	Tape unit failure The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking. Perform TU-PIP2.	46G2227 ML2TMED 46G3934 42F7300
9301	Tape device failure, redundancy lost The tape device detected a hardware failure that does not prevent the tape unit from completed the current operation. Refer to the Tape unit service information to determine the failing item.	46G2227 ML2TMED 46G3934 42F7300
9302	Tape device failure or media error The tape unit detected a failure that may be caused by a hardware failure or a media error. Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.	ML2TMED 46G2227 46G3934 42F7300
9310	Licensed Internal Code for the tape unit is not correct	46G2227 FI00130
9320	Tape device Licensed Internal Code failure	FI00130 46G2227

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9350	Tape unit detected a read or write error on tape medium A permanent read or write error occurred. Clean the tape unit and retry the operation. If cleaning the tape unit does not correct the problem, exchange the tape media.	ML2TMED 46G2227 46G3934 42F7300
9351	Tape with excessive error rate was mounted in tape device. The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.	ML2TMED UL2CLN 46G2227
9355	The data format is incorrect; the tape cannot be read The tape unit has detected that the data format on the tape media is not supported. Clean the tape unit and retry the operation. If the operation continues to fail, use a different tape cartridge.	UL2USR1 ML2TMED UL2CLN 46G2227
9500	I/O processor Licensed Internal Code error If the system is operational, take a dump of the I/O processor data. For more information, see the <i>iSeries Service Functions</i> information or ask your next level of support for assistance.	FI00130
9800 to 9803	I/O processor successfully recovered from temporary error No action required. This reference code is logged for information only.	
9810	Problem analysis has determined a part should be replaced. This reference code is used for ending Online Problem Analysis with a list of failing items. (Information only)	
9899	Problem analysis completed, the problem has been corrected. This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.	UL2FIXD
9900, FF09	Licensed Internal Code for tape unit was not upgraded The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape drive was not completed. The tape drive will continue to operate with the previous LIC. You may do either of the following: <ul style="list-style-type: none"> • Wait for next IPL when the system will attempt to load the LIC for the tape drive again. • Perform TU-PIP4 to reset the IOP and the tape drive. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC. 	UL2WAIT
FF4D	I/O processor successfully recovered from temporary error No action required. This reference code is logged for information only. When the system is available, display the operator messages, find message CPI946B, and press F14 to run online problem analysis to see if the error threshold has been exceeded.	46G2227 FI00141 FI00830 46G2599 46G3934 17G1500 42F7300 AJEDA00

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
FF5D	I/O processor successfully recovered from temporary error No action required. This reference code is logged for information only. When the system is available, display the operator messages, find message CPI946B, and press F14 to run online problem analysis to see if the error threshold has been exceeded.	46G2227 46G3934 FI00830 FI00141 46G2599 17G1500 42F7300
FFF6	Tape volume statistics logged (no action required) No action required. This reference code is logged for information only.	
FFF8	Asynchronous device attached; synchronous device expected The attached device is operational and working in the asynchronous mode of data transfer. The IBM tape unit uses the synchronous mode of data transfer; if the attached device is an IBM tape unit, exchange the tape unit.	46G2227
FFFE	Tape unit detected a read error on the tape medium Perform the Action for reference code 030B.	ML2TMED 46G2227 46G3934 42F7300
FFFF	Tape unit detected a write error on tape medium Perform the Action for reference code 030B.	ML2TMED 46G2227

Table 2. Model 012 Tape drive failing items

Failing Item	Description	Document Description
17G1500	Internal signal cable	7208 Model 012 5.0GB External 8mm Tape Drive Service Guide
42F7300	Fan	7208 Model 012 5.0GB External 8mm Tape Drive Service Guide
46G2227	Tape drive	7208 Model 012 5.0GB External 8mm Tape Drive Service Guide
46G2599	Terminating plug	7208 Model 012 5.0GB External 8mm Tape Drive Service Guide
46G3934	Power supply	7208 Model 012 5.0GB External 8mm Tape Drive Service Guide
AJEDA00	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
ANYBUS	IOP card bus error	Problem Analysis; Symbolic FRU Isolation
ML2TMED	Defective tape	7208 Model 012 5.0GB External 8mm Tape Drive Service Guide
UL2CLN	Tape unit needs cleaning	Magnetic tape subsystem operator's information
UL2CNFG	Tape configuration detected by I/O processor; not valid	Magnetic tape subsystem operator's information
UL2USR1	Operator action required	Magnetic tape subsystem operator's information
UL2WAIT	Wait to next IPL or perform TU-PIP4	Problem Analysis

(9348) Tape unit reference codes

A tape or tape library device failure occurred.

Use the following procedure to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs that you find in the Serviceable Event View. If you cannot locate an error log in the Serviceable Event View that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?
 - **Yes:** The problem has been corrected. **This ends the procedure.**
 - **No:** Look at the 4 rightmost characters of the Data display for Function 11, which represent the unit reference code. See the *9348 Tape Unit Service Information* and find the unit reference code.

(9427) Tape unit reference codes

A tape or tape library device failure occurred.

Note: Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs that you find in the Serviceable Event View. If you cannot locate an error log in the Serviceable Event View that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?
 - **Yes:** You have corrected the problem. **This ends the procedure.**
 - **No:** Look at the 4 rightmost characters of the Data display for Function 11, which represent the unit reference code. Find the unit reference code in the following table.

For more on the Failing Item column entries, see Table 2. Tape unit failing items details, which follows the reference code table below.

Table 1. (9427) Tape unit reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0001	Tape unit failure Refer to the 9427 8mm Tape Cartridge Library Service Guide.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
03xx	<p>Tape unit detected an error on the tape medium</p> <p>Read (or write) errors may be caused by:</p> <ul style="list-style-type: none"> • Poor or damaged tape • Dirty read/write heads • Damaged data cartridges • Using a data cartridge previously recorded in a format or density that is not correct • Using the wrong data cartridge (for example, one in a different format or density from another set of data cartridges) <p>Do the following:</p> <ol style="list-style-type: none"> 1. Clean the tape unit and retry the operation. 2. If cleaning the tape unit does not correct the problem, exchange the tape media. 	
04xx	<p>Tape unit failure</p> <p>The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking.</p> <p>Refer to the 9427 8mm Tape Cartridge Library Service Guide.</p>	
3xxx	<p>Device or interface error.</p> <p>Refer to the 9427 8mm Tape Cartridge Library Service Guide.</p>	
4016 to 4017	Licensed Internal Code for the tape unit is not correct	AJEDA00
9020	<p>I/O processor detected a SCSI bus configuration error</p> <p>Before exchanging any parts, verify that the following conditions are not present:</p> <ul style="list-style-type: none"> • Tape and DASD devices attached to an I/O Processor that does not support attachment of both tape and DASD devices at the same time. • A device type or model that is not given support. 	ULYCNFG 86G9251 FI00130 86G9254
9100	<p>Interface error detected by I/O processor or by tape unit</p> <p>Before exchanging any parts, do the following:</p> <ol style="list-style-type: none"> 1. Ensure that the device is powered on. 2. Ensure that the SCSI cable between the device and the I/O Processor or I/O Adaptor is seated correctly, and that there are no bent or damaged pins on the SCSI cable. 3. Ensure that a terminating plug is attached to the device. 	86G9251 FI00131 86G9254 EXTSCSI 86G9255 86G9274 17G9134 FI00130
9200	<p>I/O processor addressed the tape unit; no response</p> <p>Before exchanging any parts, do the following:</p> <ol style="list-style-type: none"> 1. Ensure that the device is powered on. 2. Ensure that the SCSI cable between the device and the I/O Processor or I/O Adaptor is seated correctly, and that there are not bent or damaged pins on the SCSI cable. 3. Ensure that the terminating plug is attached to the device. 	86G9251 86G9274 86G9254 FI00131 EXTSCSI 17G9134 87G1531 86G9255

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9201	<p>Tape unit command timeout</p> <p>Before exchanging any parts, do the following:</p> <ol style="list-style-type: none"> 1. Ensure that the device is powered on. 2. Ensure that the SCSI cable between the device and the I/O Processor or I/O Adaptor is seated correctly, and that there are not bent or damaged pins on the SCSI cable. 3. Ensure that the terminating plug is attached to the device. 	86G9251 FI00131 86G9254 EXTSCSI 17G9134 86G9255 86G9274 FI00130
9202	<p>Tape unit failed after Licensed Internal Code was loaded</p> <p>Before exchanging any parts, do the following:</p> <ol style="list-style-type: none"> 1. Ensure that the device is powered on. 2. Ensure that the SCSI cable between the device and the I/O Processor or I/O Adaptor is seated correctly, and that there are not bent or damaged pins on the SCSI cable. 3. Ensure that the terminating plug is attached to the device. 	86G9251 86G9274 86G9254
9210	<p>Illegal or unsupported tape unit response</p>	86G9251 FI00130 FI00131
9300	<p>Tape unit failure</p> <p>The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking.</p> <p>Perform TU-PIP2.</p>	86G9251 LIBDEV MLYTMED 86G9274 86G9255
9301	<p>Tape device failure, redundancy lost</p> <p>The tape device detected a hardware failure that does not prevent the tape unit from completed the current operation.</p> <p>Refer to the Tape unit service information to determine the failing item.</p>	86G9251 LIBDEV MLYTMED 86G9274 86G9255
9302	<p>Tape device failure or media error</p> <p>The tape unit detected a failure that may be caused by a hardware failure or a media error.</p> <p>Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.</p>	MLYTMED 86G9251
9310	<p>Licensed Internal Code for the tape unit is not correct</p>	86G9251 FI00130
9320	<p>Tape device Licensed Internal Code failure</p>	FI00130 86G9251
9350	<p>Tape unit detected a read or write error on tape medium</p> <p>A permanent read or write error occurred. Clean the tape unit and retry the operation.</p> <p>If cleaning the tape unit does not correct the problem, exchange the tape media.</p>	MLYTMED 86G9251
9351	<p>Tape with excessive error rate was mounted in tape device.</p> <p>The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.</p>	MLYTMED ULYCLN 86G9251

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9355	<p>The data format is incorrect; the tape cannot be read</p> <p>The tape unit has detected that the data format on the tape media is not supported.</p> <p>Clean the tape unit and retry the operation.</p> <p>If the operation continues to fail, use a different tape cartridge.</p>	ULYUSR1 MLYTMED ULYCLN 86G9251
9500	<p>I/O processor Licensed Internal Code error</p> <p>If the system is operational, perform a dump of the I/O processor data. For more information, see Performing an IOP dump using hardware service manager.</p>	FI00130
9600	<p>Equipment Check Failure on Library Device.</p> <p>See library device service information to resolve the error.</p>	LIBDEV
9800 to 9803	<p>I/O processor successfully recovered from temporary error</p> <p>No action required. This reference code is logged for information only.</p>	
9810	<p>Problem analysis has determined a part should be replaced.</p> <p>This reference code is used for ending Online Problem Analysis with a list of failing items. (Information only)</p>	
9899	<p>Problem analysis completed, the problem has been corrected.</p> <p>This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.</p>	ULYFIXD
9900	<p>Licensed Internal Code for tape unit was not upgraded</p> <p>The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape drive was not completed.</p> <p>The tape drive will continue to operate with the previous LIC. You may do either of the following:</p> <ul style="list-style-type: none"> • Wait for next IPL when the system will attempt to load the LIC for the tape drive again. • Perform TU-PIP4 to reset the IOP and the tape drive. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC. 	ULYWAIT
FF09	<p>Licensed Internal Code for tape unit was not upgraded</p> <p>The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape drive was not completed.</p> <p>The tape drive will continue to operate with the previous LIC. You may do either of the following:</p> <ul style="list-style-type: none"> • Wait for next IPL when the system will attempt to load the LIC for the tape drive again. • See the system service documentation to reset the IOP and the tape drive. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC. 	ULYWAIT

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
FF4D	I/O processor successfully recovered from temporary error No action required. This reference code is logged for information only. When the system is available, display the operator messages, find message CPI946B, and press F14 to run online problem analysis to see if the error threshold has been exceeded.	86G9251 FI00141 EXTSCSI 17G9134 86G9253 86G9255 AJSLC01
FF5D	I/O processor successfully recovered from temporary error No action required. This reference code is logged for information only. When the system is available, display the operator messages, find message CPI946B, and press F14 to run online problem analysis to see if the error threshold has been exceeded.	86G9251 86G9253 EXTSCSI FI00141 17G9134 86G9255
FFF6	Tape volume statistics logged (no action required) No action required. This reference code is logged for information only.	
FFF8	Asynchronous device attached; synchronous device expected The attached device is operational and working in the asynchronous mode of data transfer. The IBM tape unit uses the synchronous mode of data transfer; if the attached device is an IBM tape unit, exchange the tape unit.	86G9251
FFFE	Tape unit detected a read error on the tape medium Perform the Action for reference code 03xx.	MLYTMED 86G9251 86G9253
FFFF	Tape unit detected a write error on tape medium Perform the Action for reference code 03xx.	MLYTMED 86G9251

Table 2. Tape unit failing items details

Failing Item	Description	Document Description
17G9134	Terminating plug	Magnetic tape subsystem service information
86G9251	Tape Drive	7208 Model 012 5.0GB External 8mm Tape Drive Service Guide
86G9251	Tape drive	Magnetic tape subsystem service information
86G9253	Power supply	Magnetic tape subsystem service information
86G9254	Controller logic card	Magnetic tape subsystem service information
86G9255	Internal signal cable	Magnetic tape subsystem service information
87G1531	Operator Panel/LCD Assembly	Magnetic tape subsystem service information
AJSLC01	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
EXTSCSI	Cable assembly	Problem Analysis; Symbolic FRU Isolation
LIBDEV	Media Library Device	Magnetic tape subsystem service information
MLYTMED	Defective tape	System operation information
ULYCLN	Tape unit needs cleaning	Magnetic tape subsystem operator's information
ULYCNGF	Tape configuration detected by I/O processor; not valid	Magnetic tape subsystem operator's information
ULYUSR1	Operator action required	Magnetic tape subsystem operator's information
ULYWAIT	Wait to next IPL or perform TU-PIP4	Problem Analysis

(A1xx) Service processor reference (attention) codes

An A1xx system reference (attention) code is an attention code posted by the service processor. An A1XX SRC offers information about a platform or service processor dump, confirms a control panel function request, or indicates an issue with a service processor wake-on-LAN setting.

The A1xx table uses the following format:

- The first column, Reference Code, contains numbers that identify a particular action your server performs during initialization of firmware.
- The second column, Description/ Action, offers a brief description about this SRC. It may also contain instructions for continuing the problem analysis.
- The third column, Failing Item, offers a link to instructions service actions for recovering from a hang on an attention code. Click the failing item code only when you experience a hang condition on an attention code. For example, a hang condition occurs when your server performs a requested action but the SRC in the control panel display does not change for several minutes and the service processor appears to be hung.

Table 1. (A1xx) Service processor reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
A1003000	Platform dump was successful	FSPSPD1
A1003001	Reserved (for platform dump)	FSPSPD1
A1003022	Confirm partition dump (control (operator) panel function 22) The control panel displays this attention code after you request a partition dump (panel function 22). When you see this code, scroll to function 22 again on the panel and press Enter to perform the partition dump.	FSPSPD1
A1003042	Confirm platform dump (control panel function 42) The control panel displays this attention code after you request a platform dump (panel function 42). When you see this code, scroll to function 42 again on the panel and press Enter to perform the platform dump.	FSPSPD1
A1003043	Confirm service processor dump (control panel function 43) The control panel displays this attention code after a service processor dump (panel function 43) is requested. When you see this code, scroll to function 43 again on the panel and press Enter to perform the service processor dump.	FSPSPD1
A1008008	Confirm fast power-off (control panel function 08) This attention code is displayed on the control panel after you request a fast power-off (panel function 08). When you see this code, scroll to function 08 again on the panel and press Enter to perform the fast power-off.	FSPSPD1
A1008009	Beginning emergency power off (EPO) countdown	FSPSPD1
A100800A	Proceeding with EPO. This SRC displays after the countdown has completed successfully.	FSPSPD1
A1751000	Service processor service action in progress	FSPSPD1
A181D000	The hypervisor did not respond to a ROLE or FAILOVER message.	FSPSPD1
A181D001	The hypervisor did not post an Xdown interrupt when a reset/reload occurred.	FSPSPD1
A1A3C100	Invalid operational mode for remote power on (wake on LAN) Check the service processor settings for remote power on.	

(A2xx, B2xx) Logical partition reference codes

When the server posts these SRCs, you can find them in the Serviceable Event View or the view that you use to see informational logs (such as the Product Activity Log or ASM).

1. Characters 3 and 4 of word 1 are the partition ID of the logical partition with the problem.
2. If the SRC begins with A2xx, no service action is required. If the SRC begins with B2xx, find the next 4 characters of the SRC (called the unit reference code) in the following table.

Table 1. (A2xx, B2xx) Logical partition reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1150	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format).</p> <p>This is a partitioning configuration problem. The LPARCFG Symbolic FRU will help correct the problem.</p> <p>If the problem persists, call your next level of support.</p>	LPARCFG
1225	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format).</p> <p>The partition attempted to IPL prior to the platform fully initializing. Retry the partition IPL after the platform IPL has fully completed and the platform is not in standby mode. If that IPL fails, call your next level of support.</p>	SVCDOCS
1230	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format).</p> <p>This is a partitioning configuration problem. The partition is lacking the necessary resources to IPL.</p> <p>This error might occur when you shut down a partition that is set to automatically IPL and then turn the managed system off and back on. When the partition automatically IPLs, it uses the resources specified in PHYP NVRAM, and this error occurs when the server does not find the exact resources specified in NVRAM. The solution is to activate the partition by using the partition profile on the HMC. The HMC applies the values in the profile to NVRAM. When the partition IPLs, it uses the resources specified in the profile.</p>	LPARCFG LICCODE
1260	<p>A problem occurred during the IPL of a partition.</p> <p>The partition could not IPL at the Timed Power On setting because the IPL setting of the partition was not set to Normal. The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format).</p>	SVCDOCS

A2xx, B2xx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1265	<p>A problem occurred during the IPL of a partition.</p> <p>The partition could not IPL. The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format).</p> <p>An operating system MSD IPL was attempted with the IPL side on D-mode. This is not a valid operating system IPL scenario, and the IPL will be halted. This SRC is usually seen when a D-mode SLIC install fails and attempts an MSD.</p>	SVCDOCS
1266	<p>A problem occurred during the IPL of a partition.</p> <p>The partition could not IPL. The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format).</p> <p>You are attempting to IPL an operating system that is not supported.</p>	SVCDOCS
1280	<p>A problem occurred during a partition Main Storage Dump.</p> <p>A mainstore dump IPL did not complete due to configuration mismatch. Contact your next level of support.</p>	NEXTLVL
1281	<p>A partition memory error occurred</p> <p>An attempt to perform a partition dump failed. A partition memory error occurred. The failed memory will no longer be used. The partition dump was terminated. The partition ID is in extended word one as LP=xxx (in decimal format). Re-IPL the partition.</p>	SVCDOCS
1310	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). No alternate (D-mode) IPL IOP was selected. The IPL will attempt to continue, but there may not be enough information to find the correct D-mode load source.</p> <p>Have the customer configure an alternate IPL IOP for the partition. Then retry the partition IPL.</p>	SVCDOCS
1320	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). No default load source IOP was selected for an A/B-mode IPL. The IPL will attempt to continue, but there may not be enough information to find the correct load source.</p> <p>Have the customer configure a load source IOP for the partition. Then retry the partition IPL.</p>	SVCDOCS

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1321	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). The IOA for the load source device needed an IOP, and none was detected. Check your LPAR configuration and make sure the correct slot is specified for the IPL load source. Then retry the partition IPL.</p>	SVCDOS
1322	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). During the partition IPL, code tried to determine if the device in a slot was an I/O Processor or an I/O Adapter. That check failed. Check your LPAR configuration and make sure that the correct slot is specified for the IPL load source. Then retry the partition IPL. If this does not resolve the problem, perform LICIP15.</p>	SVCDOS
2048	<p>A problem occurred during a partition Main Storage Dump.</p> <p>A mainstore dump IPL did not complete due to a copy error. Contact your next level of support.</p>	NEXTLVL
2058	<p>A problem occurred during a partition Main Storage Dump.</p> <p>A mainstore dump IPL did not complete due to a copy error. Contact your next level of support.</p>	NEXTLVL
2250, 2300	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). A slot that was needed for the partition was unavailable. See the Symbolic FRU SLOTUSE for more information on the cause of this error.</p>	SLOTUSE
2310, 2320, 2425 to 2426	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). The platform LIC for this partition attempted an operation. There was a failure. Contact your next level of support.</p>	NEXTLVL
2475	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). A slot that was needed for the partition was either empty or the device in the slot has failed. See the Symbolic FRU SLOTUSE for more information on the cause of this error.</p> <p>If you have a RAID enablement card (CCIN 5709) on your system, it will disable an embedded SCSI adapter. If that embedded slot is called out in the error, you can safely ignore this error.</p>	SLOTUSE

A2xx, B2xx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2485	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). The platform LIC for this partition attempted an operation. There was a failure. Contact your next level of support.</p>	NEXTLVL
3000	<p>System log entry only, no service action required</p> <p>A user requested an immediate termination and main store dump of a partition. The partition ID is in extended word one as LP=xxx in decimal format.</p>	
3081	<p>A problem occurred during the IPL of a partition.</p> <p>IPL did not complete due to a copy error. Contact your next level of support.</p>	LICCODE
3110	<p>A problem occurred during the IPL of a partition.</p> <p>The search for a valid load source device was exhausted. The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). Perform LICIP15.</p>	SVCDOS
3113	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). A problem occurred on the path to the load source for the partition.</p> <p>If present, look in the Serviceable Event View for a B7xx xxxx during the partition's IPL. Correct that error and retry the partition IPL.</p>	SVCDOS
3114	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format).</p> <p>The B2xx xxxx SRC Format is Word 1: B2xx3114, Word 3: Bus, Word 4: Board, Word 5: Card.</p>	NEXTLVL
3120	<p>System log entry only, no service action required</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). Retry count exceeded. This is logged for each unsuccessful attempt to IPL with a loadsource candidate. If the IPL fails, look for other serviceable errors.</p>	
3123	System log entry only, no service action required	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3125	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format).</p> <p>This is a platform LIC main store utilization problem. The platform LIC could not obtain a segment of main storage within the platform's main store to use for managing the creation of a partition.</p>	LICCODE
3128	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). An unexpected failure return code was returned when attempting to query the IOA slots that are assigned to an IOP.</p> <p>Look for B700 69xx errors in the Serviceable Event View and work those errors.</p>	NEXTLVL
3130	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). If word 3 is zero, then this SRC is informational and can be ignored.</p> <p>Otherwise there is a problem in the platform LIC. A nonzero bus number has no associated bus object.</p> <p>Look for B700 69xx errors in the Serviceable Event View and work those errors.</p> <p>If there are no serviceable B700 69xx errors, or if correcting the errors did not correct this problem, contact your next level of support.</p>	NEXTLVL
3135	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). An unknown bus type was detected.</p>	NEXTLVL
3140	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). The load source IOP is not owned by the partition. This is a configuration problem in the partition. Have the customer reconfigure the partition to have the intended load source IOP.</p> <p>If there is not a configuration problem then contact your next level of support.</p>	SVCDOCS

A2xx, B2xx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3141	<p>System log entry only, no service action required</p> <p>The IOP in the slot used for the last successful IPL of the operating system was replaced with an I/O Adapter. The IPL will continue by searching for a valid load source device.</p> <p>Check the LPAR configuration if required, and ensure that the tagged I/O for the partition is correct.</p>	
3142	<p>System log entry only, no service action required</p> <p>The I/O Adapter in the slot used for the last successful IPL of the operating system was replaced with an I/O Processor. The IPL will continue by searching for a valid load source device.</p> <p>Check the LPAR configuration if required, and ensure that the tagged I/O for the partition is correct.</p>	
3143	<p>System log entry only, no service action required</p> <p>The I/O Adapter in the slot used for the last successful IPL of the operating system was removed. The IPL will continue by searching for a valid load source device.</p> <p>Check the LPAR configuration if required, and ensure that the tagged I/O for the partition is correct.</p>	
3144	<p>System log entry only, no service action required</p> <p>The I/O Processor in the slot used for the last successful IPL of the operating system was removed. The IPL will continue by searching for a valid load source device.</p> <p>Check the LPAR configuration if required, and ensure that the tagged I/O for the partition is correct.</p>	
3200	<p>System log entry only, no service action required</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format).</p> <p>Look for a SRC in the Serviceable Event View logged at the time the partition was performing an IPL.</p> <p>This error indicates a failure during a search for the load source. There may be a number of these failures prior to finding a good load source. This is normal. If a B2xx3110 error is logged, a B2xx3200 may be posted to the control panel. Work the B2xx3110 error in the Serviceable Event View. If the system IPL hangs at B2xx3200 and you cannot check the SRC history, perform the actions indicated for the B2xx3110 SRC.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
4158	<p>System log entry only, no service action required</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format).</p> <p>Look for a SRC in the Serviceable Event View logged at the time the partition was performing an IPL.</p> <p>This error indicates a failure during a search for the load source. It is usual for a number of these failures to occur prior to finding a valid load source. This is normal. If a B2xx3110 error is logged, a B2xx3200 may be posted to the control panel. Work the B2xx3110 error in the Serviceable Event View. If the system IPL hangs at B2xx3200 and you cannot check the SRC history, perform the actions indicated for the B2xx3110 SRC.</p>	
5106	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). There is not enough space to contain the partition main storage dump.</p> <p>Contact your next level of support.</p>	NEXTLVL
5109	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). There was a partition main storage dump problem. Contact your next level of support.</p>	NEXTLVL
5114	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). There is not enough space to contain the partition main storage dump. Contact your next level of support.</p>	NEXTLVL
5115	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). There was an error reading the partition's main storage dump from the partition's load source into main storage.</p>	NEXTLVL
5117	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). A partition main storage dump has occurred but cannot be written to the load source device because a valid dump already exists.</p> <p>Use the Main Storage Dump Manager to rename or copy the current main storage dump.</p>	SVCDOS

A2xx, B2xx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5121	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). There was an error writing the partition's main storage dump to the partition's load source.</p>	NEXTLVL
5122 to 5123	<p>System log entry only, no service action required</p> <p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format).</p> <p>An error occurred when writing the partition's main storage dump to the partition's load source. No service action required.</p>	
5135	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). There was an error writing the partition's main storage dump to the partition's load source.</p>	NEXTLVL
5137	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). There was an error writing the partition's main storage dump to the partition's load source.</p>	NEXTLVL
5145	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). There was an error writing the partition's main storage dump to the partition's load source.</p>	NEXTLVL
5148	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). An error occurred while doing a main storage dump that would have caused another main storage dump.</p> <p>Contact your next level of support.</p>	NEXTLVL
6006	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). A platform LIC error occurred when the partition's memory initialized. The IPL will not continue.</p> <p>Contact your next level of support.</p>	NEXTLVL

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6012	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). The partition's LID failed to completely load into the partition's mainstore area.</p> <p>Contact your next level of support.</p>	NEXTLVL
6015	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format).</p> <p>The load source media is corrupted or not valid.</p>	LSERROR
6025	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format).</p> <p>This is a problem with the load source media being corrupt or not valid.</p>	LSERROR
6027	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format).</p> <p>A failure occurred when allocating memory for an internal object used for LID load operations. Ensure the partition was allocated enough main storage, verify that no memory leaks are present, and then retry the operation.</p>	NEXTLVL
6110	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). Error on load source device.</p>	LSERROR
690A	<p>A problem occurred during the IPL of a partition.</p> <p>An error occurred while copying Open Firmware into the partition load area. Contact your next level of support.</p>	NEXTLVL

A2xx, B2xx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
7200	<p>System log entry only, no service action required</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). An error condition was encountered when communicating with the load source I/O Processor for the partition identified in the xx field of the B2xx SRC.</p> <p>This informational error indicates a failure resetting the I/O Processor in the preceding B2xx3200 error. This may be normal. If there is a hardware failure there will be a different serviceable event. If the system IPL hangs at B2xx7200 and you cannot check the SRC history, perform the actions indicated for the B2xx3110 SRC.</p>	
8080	System log entry only, no service action required	
8081	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). An internal LIC timeout has occurred. The partition may continue to IPL but it may experience problems while running.</p>	LICCODE
8105	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). There was a failure loading the VPD areas of the partition. Possible causes are:</p> <ul style="list-style-type: none"> • Corrupted/unsupported load source media • Insufficient resources allocated to the partition • Unsupported partition configuration by the operating system <p>If the problem is due to media, replace the load source media. If the problem is due to insufficient resources, allocate enough resources to the partition. If the problem is due to unsupported partition configuration, correct the partition configuration.</p>	SVCDOCS
8107	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). There was a problem getting a segment of main storage in the platform's main store.</p>	LICCODE
8109	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). A failure occurred. The IPL is terminated. Ensure that there is enough memory to IPL the partition.</p>	LICCODE
8112	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). A failure occurred. The IPL is terminated.</p>	LICCODE

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
8113	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). A problem occurred on the path to the load source for the partition.</p> <p>There was an error mapping memory for the partition's IPL. Call your next level of support.</p>	LICCODE
8114	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). A problem occurred on the path to the load source for the partition.</p> <p>There was a failure verifying VPD for the partition's resources during IPL. Call your next level of support.</p>	LICCODE
8115	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). There was a low level partition to partition communication failure.</p>	LICCODE
8117, 8121, 8123, 8125, 8127, 8129	<p>A problem occurred during the IPL of a partition.</p> <p>Partition did not IPL due to platform Licensed Internal Code error.</p> <p>Contact your next level of support.</p>	NEXTLVL
813A	<p>A problem occurred during the IPL of a partition.</p> <p>Ensure that the console device cables are connected properly. If the cables are already connected properly, replace the cables. Re-IPL the partition. If the problem reoccurs, contact your next level of support.</p>	SVCDOS
A100 to A101	<p>A problem occurred after a partition ended abnormally.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). This partition could not stay running and shut itself down.</p> <p>Work any error logs in the Serviceable Event View. If there are no errors, contact your next level of support.</p>	SVCDOS
B07B	System log entry only, no service action required	
B215	<p>A problem occurred after a partition ended abnormally.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). There was a communications problem between this partition's service processor and the platform's service processor.</p> <p>The platform will need to be re-IPLed before that partition can be used. Call your next level of support.</p>	NEXTLVL

A2xx, B2xx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
C1F0	<p>A problem occurred during a power off a partition</p> <p>Internal platform Licensed Internal Code error occurred during partition shutdown or re-IPL.</p> <p>Contact your next level of support.</p>	NEXTLVL
D150	<p>A problem occurred after a partition ended abnormally.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). There was a communications problem between this partition and code that handles resource allocation. Call your next level of support.</p>	LICCODE
E0AA	<p>A problem occurred during the IPL of a partition.</p> <p>Ensure that the console device cables are connected properly. If the cables are already connected properly, replace the cables. Re-IPL the partition. If the problem reoccurs, contact your next level of support.</p>	SVCDOCS
F001	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). An operation has timed out.</p> <p>Ignore this error if there are other serviceable errors. Work those error logs for this partition and for the platform from the Serviceable Event View. If there are no errors, contact your next level of support.</p>	SVCDOCS
F003	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). Partition processors did not start LIC within the timeout window.</p> <p>Capture a Partition Dump and call your next level of support.</p>	NEXTLVL
F004	<p>A system request to power off a partition failed</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). The partition did not respond to a system request to power off the partition. This partition had a communications problem.</p> <p>If the partition is an i5/OS partition, capture a Partition Dump. Contact your next level of support.</p>	NEXTLVL

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
F005	<p>A system request to power off a partition failed</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). The partition did not respond to a system request to power off the partition. This partition had a communications problem.</p> <p>If the partition is an i5/OS partition, perform a Partition Dump and contact your next level of support.</p> <p>For all other partition types, a Partition Dump is not supported. If the system is Hardware Management Console (HMC) or Integrated Virtualization Manager (IVM) controlled, do an immediate partition power off. If the system is not HMC or IVM controlled, perform a Function 8 on the control panel. After the partition has powered off, re-IPL the partition, collect error logs and contact your next level of support.</p>	NEXTLVL
F006	<p>A problem occurred during the IPL of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). The code load operation for the partition's IPL timed out.</p> <p>Work any error logs for this partition in the Serviceable Event View. If there are no errors, contact your next level of support.</p>	SVCDOS
F007	<p>A problem occurred during a power off a partition</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC (in hexadecimal format). If characters 3 and 4 are both zero, then the partition ID is in extended word one as LP=xxx (in decimal format). A problem occurred on the path to the load source for the partition.</p> <p>A timeout occurred during the process of trying to stop a partition from running. Contact your next level of support.</p>	LICCODE
F008	<p>A problem occurred during the IPL of a partition.</p> <p>During an IPL, a timeout occurred while waiting for a ready message from the partition.</p> <p>Look for other errors. Re-IPL the partition to recover.</p>	
F009	<p>System log entry only, no service action required</p> <p>During an IPL, a timeout occurred while waiting for a response to a message.</p> <p>Look for other errors. Re-IPL the partition to recover.</p>	
F00A to F00B	<p>System log entry only, no service action required</p> <p>During an IPL, a timeout occurred while waiting for a response to a message.</p> <p>Look for other errors. If this SRC is displayed in the operator panel, then panel function 34 might be used to retry the current IPL while the partition is still in the failed state.</p>	

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
F00C	<p>System log entry only, no service action required</p> <p>During an IPL, a timeout occurred while waiting for a response to a message.</p> <p>Look for other errors. If this SRC is displayed in the operator panel, then panel function 34 might be used to retry the current IPL while the partition is still in the failed state.</p>	
F00D	<p>Timeout occurred during a main store dump IPL</p> <p>If this SRC is displayed in the operator panel during a main store dump IPL, then panel function 34 might be used to retry the current main store dump IPL while the partition is still in the failed state.</p>	

(A6xx, B6xx) Licensed Internal Code reference codes

Use this table for both A6xx and B6xx reference codes. Bus errors are of the form B600 69xx. Other subsystems that produce Licensed Internal Code errors are also represented in the B6xx Reference Code Table.

Perform the following:

1. Find the SRC in the **SRC** column of the following table.
2. Perform the actions in the **What You Should Do** column of the table.

In all cases, after you determine the failing item, go to the locations table for the system or tower you are working on to determine the location, and to the removal and replacement procedure for the failing item.

Table 1. General description of recommended actions


SRC	What You Should Do
11 A6xx xxxx	<p>Licensed Internal Code intervention is needed.</p> <ol style="list-style-type: none"> 1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code. 2. See the following table (Table 2) and find the unit reference code.
11 B6xx xxxx	<p>The Licensed Internal Code detected a failure.</p> <ol style="list-style-type: none"> 1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code. 2. See the following table (Table 2) and find the unit reference code. 3. When working with the Product Activity Log, System Licensed Internal Code entries often occur as a secondary effect of other hardware related entries. The following list is a suggested method of isolating these kinds of problems. <ol style="list-style-type: none"> a. Examine the date and time of the informational reference codes. b. Determine if any other reference codes were logged at or before the same date and time. c. Start the service approach based on these other logged errors.

For more on the Failing Item column entries, see Table 3. Licensed Internal Code failing items details, which follows the reference code table below.

Table 2. (A6xx, B6xx) Licensed Internal Code reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0000	<p>Operating system status code</p> <p>This reference code is for information only. It is shown in the Product activity log as a side effect of a condition that was detected by LIC.</p> <p>Normally, no action should be taken as a result of information reference codes. However, to isolate the root cause, use these suggestions:</p> <ol style="list-style-type: none"> 1. Examine the date and time of the informational reference code. 2. Determine if any other reference codes have been logged at or before the same date and time. 3. Begin the service approach based on these other logged errors. 	
0102	<p>A machine check occurred during IPL</p> <p>Words 2 to 9 of this SRC contain additional diagnostic information. Record SRC words 1 through 9 before attempting to IPL again and report the problem to your Software Service Provider.</p>	
0103	<p>Main storage dump must be copied for service.</p> <p>Perform LICIP01.</p>	
0104	<p>Terminate Immediate reference code is bad</p> <p>Perform LICIP08.</p>	AJDG301
0105	<p>More than one request to terminate the system was issued</p> <p>Perform LICIP08.</p>	AJDG301
0106	<p>Terminate Immediate data is not valid</p> <p>Perform LICIP08.</p>	AJDG301
0107	<p>Main storage dump must be copied for service.</p> <p>The server detected an unrecoverable machine check condition.</p> <p>Collect all the words of the SRC and the main store dump and send to your system manufacturer for analysis.</p>	
0109	<p>An unrecoverable memory error occurred</p> <p>Re-IPL the partition that terminated. Then, look for and correct errors with SRCs of the form B1xxxxxx in the Serviceable Event View that indicate the replacement of memory in the failing item list. If there are no B1xxxxxx SRCs in the Serviceable Event View that indicate a memory problem, perform a slow boot in order to run diagnostics on the memory. Then, look for and correct errors with SRCs of the form B1xxxxxx in the Serviceable Event View.</p>	SVCDOS
0202	<p>Unrecoverable read error</p> <p>Restore the Licensed Internal Code using "Licensed Internal Code Install and Restore" in the <i>iSeries Service Functions</i> information.</p>	

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0210	<p>The system ASP has run out of disk storage</p> <p>The out of storage condition in the system ASP can be caused by an allocation failure in some other system software. This could be a looping condition that continues to allocate storage. Contact your service representative for assistance with the Main Storage Dump.</p>	
0231	<p>Disk sanitize action completed successfully</p> <p>No service action required. This entry is logged for information only.</p>	
0232	<p>Disk sanitize action did not complete successfully</p> <p>Provide the Product Activity Log entry to your next level of support for analysis.</p>	
0244, 0255, 0266	<p>Contact was lost with the device indicated</p> <p>Do not power off the system.</p> <p>Perform LICIP13.</p>	FI00580 FI00500 FI00302 FI00301 AJDG301
0277	<p>A compression disk unit cannot complete an operation.</p> <p>Note: Do not power off the system when performing this procedure.</p> <p>Look at the 4 leftmost characters of the Data display for word 7. These four characters indicate the type of problem that exists and the recovery action to perform.</p> <p>If these characters are 8402 or 2002, the compression disk unit is temporarily full of data. The command to the compression disk is being held. When the storage subsystem controller has created sufficient space on the compression disk unit to contain the data, the command which is being held will be released and the system will resume normal processing. If the system does not resume normal processing within 20 minutes, contact your next level of support.</p> <p>If these characters are 8400 or 2000, the compression disk unit is full of data. The command to the compression disk is being held.</p> <p>The customer should perform the recovery actions specified in "Disk Unit Full Considerations" in the Backup and Recovery Guide .</p>	
0302	<p>Recursion in exception handler</p> <p>Perform LICIP08.</p>	AJDG301
0304	<p>Component specific exception handler return code not valid</p> <p>Perform LICIP08.</p>	AJDG301
0305	<p>Exception while storage management lock is held</p> <p>Perform LICIP08.</p>	AJDG301
0307 to 0308	<p>LIC exception code detected a problem</p> <p>Component Specific Exception Handler recursion is detected in an OS/400 process.</p> <p>Perform LICIP08.</p>	AJDG301
0317	<p>Traceback for code not found</p> <p>Perform LICIP08.</p>	AJDG301

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0323 to 0329	LIC exception code detected a problem Perform LICIP08.	AJDG301
0333	A branch to a bad address was attempted Perform LICIP08.	AJDG301
0334	Exception Handler could not be removed Perform LICIP08.	AJDG301
0335	Code resumed to not valid address following exception Perform LICIP08.	AJDG301
0401	A machine check occurred during IPL Perform LICIP08.	AJDG301
0402	A machine check occurred during authority initialization Perform LICIP08.	AJDG301
0403	Unhandled exception during IPL or install Perform LICIP08.	AJDG301
0405	Unhandled exception in authority recovery Perform LICIP08.	AJDG301
0406	Unhandled exception in data base recovery Perform LICIP08.	AJDG301
0407	Unhandled exception in data base initialization Perform LICIP08.	AJDG301
0408	Unhandled exception in journal recovery Perform LICIP08.	AJDG301
0409	Unhandled exception in journal synchronization Perform LICIP08.	AJDG301
0410	Unhandled exception in journal clean up Perform LICIP08.	AJDG301
0411	Unhandled exception in commit recovery Perform LICIP08.	AJDG301
0412	Unhandled exception in commit initialization Perform LICIP08.	AJDG301
0413	Rebuild of recovery object index failed Perform LICIP08.	AJDG301
0414	Install of operating system failed on read from media Perform LICIP08.	FI00300
0415	Create user profile failed Perform LICIP08.	AJDG301

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0417	Initiating the initial process failed Perform LICIP08.	AJDG301
0418 to 0419, 0420	The information loaded from the install media is not valid Perform LICIP08.	AJDG301
0421	Bad return code creating a queue or message Perform LICIP08.	AJDG301
0422	The Load/Dump command failed Perform LICIP08.	AJDG301
0439	Opening the IPCF connection failed Perform LICIP08.	AJDG301
0440	Termination code is not valid Perform LICIP08.	AJDG301
0441	Power off system command failed Perform LICIP08.	AJDG301
0443	Programmed IPL command failure Perform LICIP08.	AJDG301
0446	Error during machine termination Perform LICIP08.	AJDG301
0447	Failure to reach MI boundary Perform LICIP08.	AJDG301
0449	Exception in MI boundary manager Perform LICIP08.	AJDG301
0506	Attempt to destroy a task with critical flag on Perform LICIP08.	AJDG301
0607	Maximum stack size exceeded in process or task Perform LICIP08.	AJDG301
0620	Event management index is not usable Perform LICIP08.	AJDG301
0650	Resource management segment could not be created or extended A main store dump was initiated. Words 2 to 9 of this SRC contain additional diagnostic information. Record SRC words 1 through 9. Perform a system IPL and collect the Product activity log and main store dump and provide them along with the recorded SRC information to IBM Service Support. The problem may also be that there is not enough auxiliary storage.	AJDG301

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0801	Invalid LID directory detected During system IPL, the LIDMgr detected an I/O failure or media failure while trying to read the LID directory. Perform LICIP08.	FI00070 FI00300 AJDG301
0802	LID directory unusable During system IPL, the LIDMgr detected that the LID directory and associated load source is not usable. Reinstall the Licensed Internal Code by using Utilities to install and restore Licensed Internal Code. For more information, contact IBM Service Support.	AJDG301
0901	The LinkLoader has found its bad flag ON This reference code is usually the result of a system termination while the LinkLoader is performing its work. Reinstall the Licensed Internal Code by using Utilities to install and restore Licensed Internal Code.	
0902	Unable to perform programmed IPL The LinkLoader was not successful in performing a programmed IPL. Perform a system IPL. If the problem persists, examine the main storage dump and determine the reason for the failure of the programmed IPL.	
1001	Enqueueing a task to the TDQ which is already enqueued on TDQ Perform LICIP08.	AJDG301
1103	MISR not readable; must be readable for Normal Mode install MISR is not readable. Perform a manual install to reinitialize the system.	
1104	Failure reading media or not install media Determine that correct install media is loaded. If correct install media is installed, media could be corrupt. Obtain another copy of the install media and reattempt the install. If the install still fails, contact your service representative.	
1201	Critical database segment could not be created Perform LICIP08.	AJDG301
1204	Error in constraint enforcement Perform LICIP08.	AJDG301
1210	Object not found in the in-use table Perform LICIP08.	AJDG301
1215	Error in critical code sequence Perform LICIP08.	AJDG301
1219	A back leveled driver has been detected Perform LICIP08.	AJDG301

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1604	<p>Not able to create APPN task</p> <p>An error occurred during task creation which requires a power off of the system.</p> <p>Perform LICIP08.</p>	AJDG301
1724	<p>An attempt to create a segment failed</p> <p>The create could fail for two reasons:</p> <ul style="list-style-type: none"> • A code problem Perform LICIP08. • No free auxiliary storage on the system Add additional DASD if the create failed because no auxiliary storage was available. 	AJDG301
1730	<p>An IPL is needed to restore system performance</p> <p>Licensed Internal Code has detected a condition that is impacting system performance. System operation can continue, but system performance may be noticeably reduced until the next IPL.</p> <p>Look at the Product Activity Log entry, and find the value at offset x'000180'. If the value equals x'00000122', the error was caused by too much processor memory being installed.</p> <p>For more information, contact IBM Service Support.</p>	GG4PL01
3000	<p>Logical partition service function Main Storage Dump.</p> <p>Copy the current main storage dump to media. For more information on how to copy a Main Storage Dump, refer to the <i>iSeries</i> Service Functions Information (see "Copying a Main Storage Dump" under "Working with Storage Dumps").</p>	AJDG301
41FC	<p>Installation of LIC failed</p> <p>Words 12 and 13 of this SRC contain additional diagnostic information.</p> <p>Install LIC using physical media.</p> <p>To determine what caused the failure, collect SRC information and contact your next level of support.</p>	SVCDOCS
41FD	<p>Installation of LIC failed</p> <p>A main store dump was initiated. Words 12 and 13 of this SRC contain additional diagnostic information.</p> <p>To recover the partition using the previously installed LIC, perform a B-mode IPL. You can then re-try the installation of LIC. Otherwise, install LIC using physical media.</p> <p>To determine what caused this failure, collect SRC information and main store dump and contact your next level of support.</p>	SVCDOCS
4401	<p>Missing DASD units.</p> <p>Copy the current main storage dump to media.</p> <p>For more information on how to perform a Main Storage Dump, refer to <i>iSeries</i> Service Functions information (see "Copying a Main Storage Dump" under "Working with Storage Dumps").</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
4402	<p>Missing DASD units.</p> <p>Copy the current main storage dump to media. Then exit the Main Storage Dump Manager.</p> <p>For more information on how to perform a Main Storage Dump, refer to <i>iSeries</i> Service Functions information (see "Copying a Main Storage Dump" under "Working with Storage Dumps").</p>	
4403	<p>Storage Management failed to reach full paging.</p> <p>Copy the current main storage dump to media.</p> <p>For more information on how to perform a Main Storage Dump, refer to <i>iSeries</i> Service Functions information (see "Copying a Main Storage Dump" under "Working with Storage Dumps").</p>	
4404	<p>Auto copy failed or not attempted.</p> <p>Copy the current main storage dump. If copying to system ASP, existing copies may need to be deleted or renamed. Then exit the Main Storage Dump Manager.</p> <p>For more information on how to perform a Main Storage Dump, refer to <i>iSeries</i> Service Functions information (see "Copying a Main Storage Dump" under "Working with Storage Dumps").</p>	
4405	<p>System ASP threshold exceeded after auto copy done.</p> <p>Delete other system ASP copies or exit the Main Storage Dump Manager and then from DST copy the Auto Copy to media and then delete the Auto Copy in system ASP.</p>	
4420	<p>MSD Manager not configured to save dump information</p> <p>The platform produced dump data, but the Main Storage Dump (MSD) Manager was not configured to automatically copy the dump to an Auxiliary Storage Pool (ASP). The dump will be lost if the system power is lost. Use MSD Manager to manually copy the current platform dump to media or an ASP.</p>	
4421	<p>Insufficient space in the ASP to store a platform dump</p> <p>The platform produced dump data, and the Main Storage Dump (MSD) Manager was configured to automatically copy the dump to an Auxiliary Storage Pool (ASP), but there was not sufficient free space available in the ASP. The dump will be lost if the system power is lost. Manually copy the current platform dump from the platform by performing one of the following:</p> <ul style="list-style-type: none"> • Make room in the designated ASP and then use the MSD Manager to copy the current platform dump to ASP. • Use the MSD Manager to delete other dump copies, then copy the current platform dump to ASP. • Use the MSD Manager to copy the current platform dump to a different ASP. • Use the MSD Manager to copy the current platform dump to media. 	
4422	<p>A platform dump is saved in MSD Manager</p> <p>The platform produced dump data. The dump data was copied to the Main Storage Dump (MSD) Manager.</p>	PLDUMP

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
4700	Processor On Demand error detected. Processor on Demand Data Block key is not valid. Replace the Processor Capacity card.	CTLPNCD
4701	Processor On Demand error detected. Processor On Demand Data Block contains data that does not match the expected data. Contact your service provider.	AJDG301
4703	Processor On Demand error detected. Processor On Demand Serialization has failed during IPL. Contact your service provider.	AJDG301
4710	Processor On Demand error detected. SPCN communication failure during Processor On Demand. Look in the Product Activity Log for other SPCN errors and perform the actions indicated for those errors.	SPNLCRD
4712	Processor On Demand error detected. Correct any Processor Capacity card or SPCN failures.	CTLPNCD
4713	Incorrect Processor Capacity Card installed. The Processor Capacity Card is the failing item since it has been swapped in from a different system. Put the Processor Capacity Card back in the system it came from, and reinstall this system's original Processor Capacity Card.	CTLPNCD
4714	The CUoD data is not present. A problem may exist. The Processor Capacity Card was changed and there may be a problem. If the system did have any activated standby processors before the Processor Capacity Card was replaced, then new processor on demand activation codes must be obtained to restore the previous activations. Contact your service provider.	
4715	Processor On Demand error detected. Correct any Processor Capacity card or SPCN failures.	CTLPNCD
4730	Processor On Demand error detected. Processor On Demand standby processors are in use. Contact your service provider.	AJDG301
4731	Processor On Demand error detected. The Processor On Demand Trial Activation period is not valid. Contact your next level of support.	AJDG301
4733	Processor On Demand error detected. Contact your service provider.	AJDG301

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
4740	Processor On Demand error detected. The Processor On Demand Activation code just entered is not valid. Contact your next level of support.	AJDG301
4741	Processor On Demand error detected. An invalid Processor On Demand Activation code has been entered more than 5 consecutive times. Contact your service provider.	AJDG301
4745	Processor Capacity card replaced on activated POD system. Contact IBM Support to order a replacement Processor On Demand activation code.	
4747	1 hour left in POD 14 day Trial Activation Period. If a new activation code was purchased, it should be entered now. Otherwise, the system will revert back to its previous activation state at the end of the Trial Activation Period.	
5001	DST received no response from a work station controller The workstation I/O processor for the system or partition console did not respond. Perform RTRIP01 to determine which Isolation procedure to perform.	FI00380 AJDG301
5002	DST problem attempting to use the system console A code problem occurred during an attempt to use the system console. Perform LICIP03.	AJDG301 FI00380
5003	Service program failed The ASCII system console failed to respond.	FI00320 FI00602 UG4USR1 AJDG301 FI00380
5004	DST console failed to respond The system console failed to respond. Perform RTRIP02 to determine which isolation procedure to perform.	FI00320 FI00602 UG4USR1 AJDG301 FI00380
5005	Service program failed The workstation adapter system console failed to respond. Perform WSAIP01.	FI00320 FI00602 UG4USR1 AJDG301 FI00380
5007	Service program failed The workstation adapter console failed to respond. Perform RTRIP07 to determine which isolation procedure to perform.	FI00320 FI00602 UG4USR1 AJDG301 FI00380
5008	DST console failed to respond Perform OPCIP03.	FI00719
5010	IPL service function ended abnormally Perform LICIP04.	AJDG301

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5082	DST lost contact with the console A service program lost contact with the system console. Perform RTRIP03 to determine which isolation procedure to perform.	AJDG301 UG4USR1
5083	IPL service function ended abnormally A service program lost contact with the system console. Perform TWSIP01.	AJDG301 UG4USR1
5090	System startup failed in unattended IPL mode Perform the following: <ul style="list-style-type: none"> • If reference code A6005090 is displayed on the control panel for more than 10 minutes, perform LICIP11. • For reference code B6005090, perform LICIP11. 	FI00580 FI00500 FI00301 FI00021 FI00065 AJDG301
5092	System is in DASD migration mode "Install Licensed Internal Code" and "Upgrade Load Source" was specified but the key is not in the manual position. Change the key position to manual and perform a system IPL.	
5094	IASP detected a failure during the vary on operation Perform LICIP12.	SVCDPCS
50FF	DST unrecoverable program error Perform LICIP03.	AJDG301 FI00380
5120	System LIC detected a program exception System LIC detected a programming problem. If performance or other system degradation is occurring, the system may be operating with reduced resources. Check the Product activity log for related entries. If this reference code is logged with a <i>Class</i> of Informational, then no action is required. Otherwise, perform LICIP01.	AJDG301 FI00130
5121	System LIC program exception occurred System LIC detected a programming problem for which a main storage dump may have been initiated. A problem log entry may be generated for this ref code. Perform LICIP01.	AJDG301
5122	System LIC program exception occurred System LIC detected an IOP programming problem for which an IOP dump may have been initiated. Perform LICIP01.	FI00130 AJDG301 FI00131

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5123	<p>System LIC program exception occurred</p> <p>System LIC detected an interface problem with the IOP or an IOP programming problem for which an IOP and main storage dump may have been initiated.</p> <p>Perform LICIP01.</p>	FI00130 AJDG301 FI00131
5126	Addressed device failed to respond to selection	DISKDRV STORIOA DISKTRY FI01106 FI01140 FI01141 DEVTERM BACKPLN
5127	IOP timed out a disk command	DISKDRV STORIOA FI01106 DISKTRY FI01140 FI01141 DEVTERM BACKPLN
5128	I/O processor failure	FI01112 FI01107
512D	<p>An IOP dump was initiated</p> <p>Copy the IOP dump entry and any related entries from the Product Activity Log to suitable media, and give to an IBM service representative.</p>	
512E	<p>System LIC program exception occurred</p> <p>The system was in a D IPL mode when the problem was detected. A main storage dump was not taken.</p> <p>Perform LICIP01.</p>	AJDG301 FI00130
5206	<p>System LIC detected a missing IOP LIC code load</p> <p>System LIC detected a missing IOP LIC code load during IPL of the IOP. This indicates that either the IOP code load is not installed on the system load source device or that system LIC was unable to successfully read that load from the load source device.</p> <p>Perform LICIP01.</p>	UG4USR1
5209	<p>System LIC detected an IOP timeout during IOP IPL</p> <p>Verify that all IOP cable connections are secure, and check tape and other non-disk devices and media to verify that they are in a ready state.</p> <p>Perform LICIP01.</p>	UG4USR1 FI00130 AJDG301
5219	<p>System LIC program exception occurred</p> <p>An IOP signalled to system LIC that it had entered a critical internal state. LIC automatically attempted to restart the IOP.</p> <p>This reference code is logged for information only. No action is required.</p>	FI00310 FI00318 FI00065 FI00130 AJDG301

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5275	<p>The system issued a reset/reload to the IOP.</p> <p>System Licensed Internal Code detected that an IOP Reset/Reload has occurred, and that the IOP successfully recovered.</p> <p>Users who were signed on to a Workstation device under the IOP will need to sign back on. Any LAN/WAN communications lines under the IOP will need to be restarted. Tape/Optical devices under the IOP may need to be varied back on.</p> <p>To determine the cause of the IOP Reset/Reload, check the Product Activity Log for additional entries logged with the same System Log ID, and perform any actions indicated for those errors.</p>	
5276	<p>IOP Reset was issued</p> <p>LIC has detected a problem with the Service Processor IOP and has reset it but has not initiated reload of the Service Processor.</p> <p>If the load source is mirrored, some system operations may be able to continue normally. However, some system service operations have been suspended and the system should be scheduled for power down as soon as possible.</p> <p>Perform RTRIP08.</p>	AJGLD01 AJDG301 FI00021
5310	<p>System LIC program exception occurred</p> <p>System LIC detected a logical partition configuration data consistency error. Copy the Product Activity Log data for this error and any related entries and contact your next level of hardware service support.</p>	LPARSUP
5311	<p>System LIC program exception occurred</p> <p>LPAR configuration data does not match current system configuration. The system will not IPL past DST until the problem is corrected.</p> <p>Following is a list of problems which may have caused this SRC to be reported:</p> <ul style="list-style-type: none"> • Non-configured disk unit which was previously a load source on a partitioned system. • Load source configuration data does not match partition for which it is being used. • Load source configuration data does not match system serial number for which it is being used. • Load source configuration data is newer than primary partition configuration data. <p>Perform LPRIP01.</p>	LPARSUP
5312	<p>System LIC program exception occurred</p> <p>LPAR configuration data informational error.</p> <p>The LPAR configuration data was found to be or inconsistent on a secondary partition's load source. The data was automatically updated to the current system level.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5313	<p>System LIC program exception occurred</p> <p>LPAR configuration data informational error.</p> <p>The LPAR configuration data was found to be inconsistent on a primary partition and could only be corrected with an older copy of the data.</p>	LPARCFG
5320	<p>Incorrect hardware configuration detected.</p> <p>An I/O Adapter used by a guest partition is located in a card slot on the same PCI bridge set as an I/O Processor. Guest partition data may be lost if any of the following occur:</p> <ul style="list-style-type: none"> • A primary partition Type D IPL is performed. • The I/O Adapter is moved to an operating system partition. • An error causes the logical partition (LPAR) configuration to not be used. <p>To correct the hardware configuration, either the I/O Adapter or the I/O Processor must be moved to a new location. Use the LPAR Validation Tool (LVT) to create a valid configuration. For more information about the LPAR Validation Tool, see the following web site:</p> <p>http://www.ibm.com/eserver/series/lpar</p>	
5340	<p>Secondary partition not running at optimum.</p> <p>Check the Primary partition's Product Activity Log for system processor entries from approximately the same time. Perform the actions indicated for those entries.</p>	
5341	<p>Secondary partition not running at optimum.</p> <p>Check the primary partition Product Activity Log for system memory entries from approximately the same time. Perform the actions indicated for those entries.</p>	
5342	<p>Secondary partition not running at optimum.</p> <p>Check the Primary partition's Product Activity Log for system processor entries from approximately the same time. Perform the actions indicated for those entries.</p>	
5343	<p>Secondary partition not running at optimum.</p> <p>Check the Primary partition's Product Activity Log for system memory errors from approximately the same time. Perform the actions indicated for those entries.</p>	
5344	<p>Secondary partition not running at optimum.</p> <p>The interactive performance specified in the configuration data for this partition could not be met.</p> <p>Contact your next level of support.</p>	LPARSUP
5350	<p>Secondary partition software release not supported.</p> <p>The logical partition software version is outside the supported release delta. Check the Release Delta from the Primary partition "Display Partition Release Level" screen.</p> <p>Check the LPAR documentation for the release level of the Primary partition and determine what the supported Release Delta is.</p>	

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5380	<p>System LIC program exception occurred</p> <p>Record the Product Activity Log (PAL) hex data for this SRC or print the PAL entry.</p> <p>Contact your next level of support.</p>	LPARSUP
5390	<p>System LIC program exception occurred</p> <p>Record the Product Activity Log (PAL) hex data for this SRC or print the PAL entry.</p> <p>Contact your next level of support.</p>	LPARSUP
5505	<p>The copying of DASD log data to the IOP log was successful</p> <p>IOP log data can be copied to a spool file for examination by the development lab.</p>	
5555	SLIC I/O DASD subsystem error recovery in progress.	
5600	<p>Unrecoverable read error</p> <p>VPD data could not be read.</p> <p>Look for other errors implicating hardware. There is no way to know what VPD read has failed, but the resource is not useable and should generate an error.</p> <p>If no such error occurred, call your next level of support.</p>	SVCDOS
6900	System bus error Contact your next level of support.	FI00065 AJDG301
6901	Bus Expansion Adapter card failed Contact your next level of support.	LBUSADP AJDG301
6902	Bus Expansion Adapter card failed Contact your next level of support.	FI00203 AJDG301
6905	Optical bus failed Contact your next level of support.	FI00065 LBUSADP AJDG301
6906	<p>High Speed Link (HSL) I/O bridge failure</p> <p>LIC could not access part of the HSL I/O bridge VPD. The bridge and HSL loop may be prevented from becoming operational.</p> <p>For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event viewer you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.</p> <p>If the Service Action Log (SAL) or serviceable event view on the HMC is available then use the failing item list presented there for servicing this reference code.</p> <p>If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.</p> <p>NOTE: A fiber optic cleaning kit may be required for optical HSL connections.</p>	SIIOADP OPT_CLN

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6907	<p>High Speed Link (HSL) I/O bridge failure</p> <p>LIC detected invalid data in the HSL I/O bridge VPD. The bridge and HSL loop may not have become operational.</p> <p>For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.</p> <p>If the Service Action Log (SAL) or serviceable event view on the HMC, is available then use the failing item list presented there for servicing this reference code.</p> <p>If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.</p> <p>NOTE: A fiber optic cleaning kit may be required for optical HSL connections.</p>	SIOADP OPT_CLN
6908	<p>High Speed Link (HSL) I/O bridge failure</p> <p>LIC data in the I/O bus vpd could not be accessed. The I/O Bus identified in the SRC may not have become operational.</p> <p>If there is a B600 6906 reference code, close this problem in the serviceable event view you are working with and work the 6906 error.</p> <p>For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.</p> <p>If the Service Action Log or serviceable event view on the HMC or service processor is available then use the failing item list presented there for servicing this reference code.</p> <p>If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.</p> <p>NOTE: A fiber optic cleaning kit may be required for optical HSL connections.</p>	SIOADP OPT_CLN

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6909	<p>High Speed Link (HSL) I/O bridge failure</p> <p>LIC detected invalid data in the I/O bus VPD. The bus and resources associated with it may not be operational.</p> <p>For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.</p> <p>If the Service Action Log (SAL) or serviceable event viewer on the HMC is available then use the failing item list presented there for servicing this reference code.</p> <p>If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.</p> <p>If the serviceable event view only indicated a frame or enclosure see the locations section for the frame or enclosure type. The location of the HSL I/O Bridge will be given in the locations tables.</p> <p>NOTE: A fiber optic cleaning kit may be required for optical HSL connections.</p>	SIOADP OPT_CLN
690A	<p>Associated adapter not found in this partition</p> <p>Perform LICIP16.</p>	LICIP16
6910	<p>I/O processor failure</p> <p>An I/O processor timed out, returned bad status, or is not following the system bus protocol.</p> <p>Perform LICIP07.</p>	FI00310 FI00318 FI00065 FI00130 AJDG301
6938	<p>Not valid system configuration detected</p> <p>This system model does not allow a configuration of more than three (non-OptiConnect) I/O Processors.</p> <p>Power down the system and remove the extra (non-OptiConnect) I/O Processor(s) so that there are three or less. Restart the system.</p>	
6944	<p>Missing or failed I/O processor cards</p> <p>A system bus appears to be empty. If the bus is not empty, two I/O processors in consecutive slots may be missing or broken. If there are broken I/O processors, then another more serious SRC has occurred. Otherwise find the bus number for this failure from the Product activity log and use the system configuration list to verify the configuration of the I/O processors on that bus.</p>	FI00317 FI00316 AJDG301
6960	<p>Multi-adapter bridge card slot error, do not use card slot</p> <p>Slot unavailable due to 64 bit card in adjacent slot.</p> <p>One of the messages documented with the symbolic FRU will describe the problem. See the SLOTERR symbolic FRU for a list of messages and corrective actions.</p>	SLOTERR

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6961	<p>Multi-adapter bridge card slot error, do not use card slot</p> <p>LED control failure, do not use slot.</p> <p>The card location is not available for use. The Failing Item with the card slot error is in the Failing Item list for this reference code.</p> <p>See the SLOTERR symbolic FRU for the list of messages and a further description of the problem detected by Licensed Internal Code.</p> <p>For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.</p> <p>If the Service Action Log or a serviceable event viewer on the HMC is available for this problem then use the failing item list presented there for servicing this reference code.</p> <p>If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.</p>	SLOTERR MASBUS
6962	<p>Multi-adapter bridge card slot error, do not use card slot</p> <p>Power control failure, do not use slot.</p> <p>If there is a Linux partition in the system, any IOPs plugged into slots owned by a Linux partition will not power on. This error will be logged. Correct the situation by removing the IOP cards.</p> <p>The card location is not available for use. The Failing Item with the card slot error is in the Failing Item list for this reference code.</p> <p>See the SLOTERR symbolic FRU for the list of messages and a further description of the problem detected by Licensed Internal Code.</p> <p>For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.</p> <p>If the Service Action Log, or serviceable event view on the HMC is available then use the failing item list presented there for servicing this reference code.</p> <p>If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.</p>	SLOTERR MASBUS

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6963	<p>Multi-adapter bridge card slot error, do not use card slot</p> <p>Power control failure, do not use slot.</p> <p>The card location is not available for use. The Failing Item with the card slot error is in the Failing Item list for this reference code.</p> <p>See the SLOTERR symbolic FRU for the list of messages and a further description of the problem detected by Licensed Internal Code.</p> <p>For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event viewer you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.</p> <p>If the Service Action Log or serviceable event viewer on the HMC is available then use the failing item list presented there for servicing this reference code.</p> <p>If serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.</p>	SLOTERR MASBUS
6964	<p>Multi-adapter bridge configuration change or error</p> <p>One of several errors or configuration problems has occurred under a Multi-adapter bridge. If you are using the Service Action Log (SAL), or the serviceable event viewer on the HMC or the service processor, then the correct FRU, description and card position(s) will be listed. Use the FRUs and descriptions in the serviceable event view you are working with to determine the problem.</p> <p>If you do not have access to the Service Action Log, or serviceable event view on the HMC or service processor, then word 4 of the SRC has more information. Examine the last 4 digits in word 4 to determine the problem by comparing them to the list below and using the FRU(s) listed here.</p> <ol style="list-style-type: none"> 1. xxxx2022 - IOP found in slots owned by a Linux partition. The Mutli-adapter Bridge and PCI Bridge set that it controls are assigned to a Linux partition. The IOP found in the SLOT indicated by the DSA in word 7 will not be configured. 2. xxxx2014 - I/O adapters were found under the Multi-adapter Bridge but there is no IOP to support them. The adapters cannot be used. 3. xxxx2015 - An card type was found that cannot be supported in the card position where it is located. <p>See the MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.</p>	MABRCFG
6965	<p>Multi-adapter bridge configuration change or error</p> <p>Card type not supported in this slot.</p> <p>An I/O processor or I/O adapter card type is installed in the location indicated in word 7 of the SRC. The card type is not supported in that slot under the Multi-adapter bridge. The card is unavailable.</p> <p>See the MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.</p>	MABRCFG

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6966	<p>Multi-adapter bridge configuration change or error</p> <p>I/O processor removed from multi-adapter bridge card slot.</p> <p>On the previous IPL an I/O processor was in the card location specified in word 7 of the SRC. The I/O processor was not detected on this IPL.</p> <p>See the MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.</p>	MABRCFG
6967	<p>Multi-adapter bridge configuration change or error</p> <p>I/O adapter unavailable due to moved I/O processor card.</p> <p>The I/O adapter specified in word 7 of the SRC is not available. On the previous IPL there was an I/O processor card the adapter was assigned to. The I/O processor was not detected on this IPL.</p> <p>See the MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.</p>	MABRCFG
6968	<p>Multi-adapter bridge configuration change or error</p> <p>IOA removed from multi-adapter bridge slot.</p> <p>On the previous IPL an I/O adapter was in the card slot specified in word 7 of the SRC. That I/O adapter was not detected on this IPL.</p> <p>See the MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.</p>	MABRCFG
6969	<p>Multi-adapter bridge configuration change or error</p> <p>I/O adapter replaced by I/O processor card.</p> <p>On the previous IPL there was an I/O adapter in the location specified in word 7 of the SRC. This IPL LIC detected that the IOA was replaced by an IOP in that location.</p> <p>See the MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.</p>	MABRCFG
696A	<p>Card slot test failed</p> <p>Perform LICIP14.</p>	FI00131 BACKPLN

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
696B	<p>Card slot could not be validated</p> <p>This can be caused by "PCI error injection policy" being set to "YES" and an I/O Processor being installed on the same Multi-adapter bridge domain as the I/O Adapter. Do one of the following:</p> <p>-- Using the HMC or a customer PC with a Web browser access the Advanced System Management Interface (ASMI) and disable PCI error injection policy.</p> <p>OR</p> <p>-- Vary off the I/O Adapter. Using Hardware Service manager in SST/DST, locate the I/O Adapter resource. Using concurrent maintenance on the associated packaging resource, remove the I/O Adapter and install it in a location that does not have I/O Processors on the same Multi-adapter bridge domain.</p> <p>OR</p> <p>-- Vary off the I/O Adapter. Use the concurrent maintenance option in Hardware Service Manager in SST/DST to power off all I/O Processors located on the same Multi-adapter bridge domain as the I/O Adapter. Use concurrent maintenance to power off and power on the I/O Adapter. Then use concurrent maintenance to power on the I/O Processors located on the same Multi-adapter bridge domain as the I/O Adapter.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6970	<p>High Speed Link (HSL) resource failure</p> <p>A system PCI bus failure was detected. Word 7 of the SRC contains the bus number.</p> <p>This failure can occur when a tower in an HSL loop is powered off using concurrent maintenance. If this is the case, close this problem.</p> <p>This error is most likely in the hardware that makes up the PCI bus, the PCI bus side of the HSL I/O bridge or the multi-adapter bridge. In some cases it may be caused by a failing IOP in the multi-adapter bridge's domain. When an IOP is causing the problem, the failing IOP cannot be identified.</p> <p>NOTE: This SRC can occur for the PCI bus resource on a PCI bus in an I/O expansion unit when the unit is powered off for a concurrent maintenance action.</p> <p>Exchange the failing items, one at a time, in the order they are listed in the serviceable event view or this document until you get to the BRDGSET or BRDGSx symbolic FRU. If the problem still exists after exchanging the failing items up to, but not including, BRDGSET or BRDGSx then perform MABIP03 to determine the failing I/O processor card.</p> <p>For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.</p> <p>If the Service Action Log, or serviceable event view on the HMC or service processor, is available then use the failing item list presented there for servicing this reference code.</p> <p>If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.</p> <p>NOTE: A fiber optic cleaning kit may be required for optical HSL connections.</p>	SI_PHB PRI_PCI MA_BRDG BRDGSET OPT_CLN
6971	<p>High Speed Link (HSL) resource failure</p> <p>Failure in a multi-adapter bridge or on the bus to the card location it controls.</p> <p>For this reference code the failing item list presented in the Service Action Log (SAL) or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.</p> <p>If the Service Action Log (SAL) or serviceable event viewer is available then use the failing item list presented there for servicing this reference code.</p> <p>If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.</p> <p>Perform MABIP02</p>	MA_BRDG MASBUS PIOCARD

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6972	<p>High Speed Link (HSL) resource failure</p> <p>Multi-adapter Bridge (MaB) failure detected.</p> <p>For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event viewer you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.</p> <p>If the Service Action Log (SAL) or serviceable event viewer on the HMC is available then use the failing item list presented there for servicing this reference code.</p> <p>If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.</p>	MA_BRDG
6973	<p>High Speed Link (HSL) resource failure</p> <p>Multi-adapter Bridge has detected a problem in the card installed in the location specified in word 7 of the SRC. Use the FRU list in the Service Action Log (SAL), or serviceable event view you are working with. If you are working from this document's FRU list use the Symbolic FRU BRDGSET to determine the failing items.</p>	BRDGSET SIOADP MA_BRDG
6974	<p>Multi-adapter bridge configuration change or error</p> <p>PCI I/O processor rejected the assignment of or the removal of an I/O adapter.</p> <p>The direct select address in word 7 of the SRC specifies the location of the IOA. The direct select address of the IOP is in word 5 of the SRC.</p> <p>See the DSA translation table and the Card positions table to determine the card locations for the IOA and the IOP.</p> <p>Use slot concurrent maintenance under HSM to assign or remove the IOA.</p>	MABRCFG
6975	<p>The system issued a reset/reload to the service processor</p> <p>Service processor error.</p>	AJDGP01
6976	<p>Service processor failure</p> <p>For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.</p> <p>If the Service Action Log (SAL) or a serviceable event viewer on the HMC is available then use the failing item list presented there for servicing this reference code.</p> <p>If a serviceable event viewer is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.</p>	SVCPROC

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6980	<p>Network Interface Controller (NIC) resource failure</p> <p>The FRU list displayed in the Service Action Log (SAL) or serviceable event view you are working with, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.</p> <p>NOTE: A fiber optic cleaning kit may be required for optical HSL connections.</p>	SICNTRL OPT_CLN
6981	<p>High Speed Link (HSL) I/O bridge failure</p> <p>Cycle power on the frame identified as the frame with failed HSL I/O Bridge prior to replacing FRUs.</p> <p>The FRU list displayed in the Service Action Log (SAL), or serviceable event view you are using, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.</p> <p>If you find either a B600 6982 or B600 6984 SRC logged at approximately the same time as this SRC then they were caused by the same failure. If you find a 6982 SRC logged at approximately the same time then close this problem and service the 6982 SRC. The failing item listed for this SRC is one of the failing items listed for B600 6982. If the serviceable event view's entry for this SRC has a location listed then record the location for use in servicing the 6982 SRC.</p> <p>NOTE: This SRC can occur for the HSL I/O Bridge resource in an I/O expansion unit when the unit is powered off for a concurrent maintenance action.</p> <p>NOTE: A fiber optic cleaning kit may be required for optical HSL connections.</p>	SIIOADP OPT_CLN
6982	<p>High Speed Link (HSL) connection failure</p> <p>If this SRC is not in the Service Action Log (SAL), or serviceable event view you are using, then it is informational and/or statistical only. It does not require a service action.</p> <p>Otherwise: This is a connection failure on an HSL link. Perform RIOIP09 to determine the service action.</p>	HSL_LNK SIIOADP SICNTRL REM_NIC OPT_CLN
6983	<p>An invalid High Speed Link (HSL) configuration was detected</p> <p>An HSL loop has an invalid configuration. Word 4 of the SRC contains the program return code (PRC) which identifies the problem with the loop's configuration. Use the PRC and the FRU listed to determine the problem.</p> <p>If you are using the Service Action Log (SAL) or serviceable event view you are working with, the FRU description may already indicate the configuration problem.</p>	SIRGCFG

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6984	<p>High Speed Link (HSL) loop status message</p> <p>An HSL loop has switched to its alternate path. This is an informational SRC only.</p> <p>Word 7 of the SRC contains the loop number in the leftmost 4 digits. The loop number is in hexadecimal format. You must convert the hexadecimal loop number into decimal format to recognize the loop number in HSM.</p> <p>This SRC can be caused by a tower on the HSL loop powering off.</p> <p>This SRC may also appear in the Service Action Log (SAL), or serviceable event viewer you are using, with a B600 6982 or B600 6981 logged at approximately the same time. In that case the other SRC is reporting a failure and this SRC is reporting that the alternate HSL path is now being used. Service the other SRC if present.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6985	<p>High Speed Link (HSL) loop status message</p> <p>If this SRC is not in the Service Action Log (SAL), or serviceable event view you are using, then it is informational. Use FRU SIRSTAT to determine what this SRC means. Otherwise, continue with the following steps:</p> <p>This error can appear as a serviceable event when a tower, or I/O unit or another system in the loop did not complete powering on before LIC on this system checked this loop for errors. Search the Product Activity Log (PAL) for the last B600 6985 SRC logged for this loop and use FRU SIRSTAT to determine if this error requires service. If the last entry indicates the loop is functioning (determined by FRU SIRSTAT) then no service action is required, close this problem</p> <p>There may be multiple B600 6985 logs with xxxx 3205 in word 4 errors for the same loop resource in the serviceable event view. This is caused by retry and recovery attempts. If there is a B600 6985 with xxxx 3206 or xxxx 3208 in word 4 after the above B600 6985 entries in the PAL, then the recovery efforts were successful. If this is the case, close all the B600 6985 entries for that loop resource in the serviceable event view.</p> <ol style="list-style-type: none"> If you find a B600 6981 in the serviceable event view then close that problem and go to step 2. Otherwise perform the following: <ul style="list-style-type: none"> Perform RIOIP06 to determine if any other systems are connected to this loop and return here. (HSL_LNK or HSLxxxx FRU in the Service Action Log (SAL) entry, or serviceable event view you are working with, indicates the loop number.) If there are other system(s) then continue with the steps that follow, otherwise go to step 2. Check for HSL failures on the other system(s) before replacing parts. HSL failures are serviceable event entries with HSL I/O Bridge and Network Interface Controller (NIC) resources. Ignore B600 6982 and B600 6984 entries. If there are HSL failures on other system(s) then continue with the steps that follow, otherwise go to step 2. Repair the problems on the other systems and return to this step. After making repairs on the other system(s) check the Product Activity Log (PAL) of this system for a B600 6985 logged after the repairs you made on the other system(s). If you find one then continue with the steps that follow, otherwise go to step 2. For the B600 6985 log you found, use FRU SIRSTAT to determine if the loop is now complete. If the loop is complete then this problem has been resolved. Use RIOIP01 to verify that the loop is now working properly. Otherwise, go to step 2. Use the serviceable event's FRU list when it is available. <p>If this SRC appears in the Service Action Log (SAL), or the serviceable event view you are using, with the Symbolic FRU HSL_LNK or HSLxxxx listed as a FRU, then perform problem isolation procedure RIOIP01. Otherwise exchange the FRUs listed in the serviceable event view.</p> <p>NOTE: A fiber optic cleaning kit may be required for optical HSL connections.</p> 	SIRSTAT HSL_LNK SIIOADP SICNTRL OPT_CLN

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6986	<p>System bus error</p> <p>During IPL, system LIC detected an HSL I/O bridge that was already initialized. The bridge should have been in a flushed and uninitialized state after powering on. There is a problem with SPCN components that prevented the tower from powering off after a previous power off was issued. The tower will not be configured for this IPL.</p> <p>This reference code is equivalent to 1xxx 90F0. When referring to the "CBLALL" symbolic FRU in the Failing Item list, perform the "CBLALL" procedure using reference code "90F0".</p> <p>Word 5 of the SRC identifies the frame. Determine the frame by breaking down word 5:</p> <p>Word 5 -> xxxx xxNN where: NN is the frame number in hexadecimal format.</p>	TWRCARD CBLALL
6987	<p>High Speed Link (HSL) connection failure</p> <p>Failures are occurring on the HSL link.</p> <p>There may be B600 6982 errors logged on the same loop and about the same time as this error. Close those errors and continue to correct the problem by working this error.</p> <ul style="list-style-type: none"> • If there is a cable FRU in the serviceable event entry: <ol style="list-style-type: none"> 1. If the connection is copper and either end has a loose connection, reseal the cable. To do this, disconnect the connection and wait a minimum of 30 seconds. Then reconnect the cable and complete the tightening process in at most 30 seconds. Repeat the process at the other end of the cable. If the error persists, replace the FRUs in the Service Action Log (SAL), or serviceable event view you are using. 2. If the connection is optical, clean the connections at both ends of the cable. See OPT_CLN. If the error persists, replace the FRUs in the Service Action Log (SAL), serviceable event view you are using. 3. If the error persists, replace the FRUs at each end of the cable starting with the FROM FRU listed in the serviceable event view you are using. • If there was no cable in the Service Action Log (SAL), or serviceable event view you are using, then replace the FRUs listed in the serviceable event view. 	HSL_LNK OPT_CLN
6990	<p>Service processor failure</p> <p>The FRU list displayed in the Service Action Log (SAL), or serviceable event view you are working with, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.</p>	SVCPROC
6991 to 6992	<p>Service processor failure</p>	AJDGP01
6993	<p>Service processor failure</p> <p>A failure occurred with the service processor hardware or the service processor LIC.</p> <p>The FRU list displayed in the Service Action Log (SAL), or serviceable event view you are working with, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.</p>	SVCPROC AJDGP01

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6994	Service processor failure The FRU list displayed in the Service Action Log (SAL) or serviceable event view you are working with, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.	SVCPROC
699C	Wrap plug is installed on Bus Expansion Adapter card This reference code is for information only. It indicates the presence of a wrap plug on the local optical link card.	
69A8	Informational bus reference code This reference code is for information only and might include the following: <ul style="list-style-type: none"> • Optical speed encode • Broken optical links now operational • Other information 	
69B8	Bus hardware configuration problem Contact your next level of support.	FI00187 AJDG301
69C1	A failure occurred on another system Contact your next level of support.	FI01040 FI00206 FI00182 AJDG301
69C2	Information only, no service action required. HSL OptiConnect normal connection to another system or partition. This reference code is informational only. HSL OptiConnect has established connection normally. The local system or partition is participating in HSL Opticonnect with other systems or partitions on the same HSL loop.	
69C3	Information only, no service action required. Opticonnect normal remote disconnection from OptiConnect participation. This reference code is informational only. HSL Opticonnect disconnected normally from a remote node. The local system or partition has stopped participating in HSL Opticonnect with the remote system or partition on the same HSL loop. Possible reasons include: <ul style="list-style-type: none"> • A remote system or partition went off line due to a normal power off or disable of HSL Opticonnect. 	
69C5	I/O processor failure Contact your next level of support.	FI00206 FI01040 AJDG301

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
69C6	<p>Abnormal or unexpected HSL OptiConnect disconnection from a remote system or partition.</p> <p>The local system or partition disconnected from a remote system or partition due to an unexpected event or failure. The problem is most likely with the remote system or partition. Intervention at the remote system is most likely required. Examine both the local and remote HSL OptiConnected systems or partitions for problems on this HSL loop.</p> <p>Possible reasons include: A fatal error in software or hardware in the remote system or partition or a power failure in the remote system.</p> <p>If there was not a complete HSL loop before this error occurred then a failure or power down in an HSL component between the local system or partition and the remote system or partition could have caused this error. Check for a problem with: an HSL cable, HSL I/O bridge or a power problem in an expansion I/O tower or unit on this loop.</p> <p>Examine the Service Action Log (SAL), or serviceable event view you are using on the local system or partition for HSL failures on the same HSL loop at approximately the same time this error occurred.</p> <p>Examine the remote system or partition for problems. If the remote system or partition is powered on and IPL'd then examine the Service Action Log (SAL), or serviceable event view you are using, on the remote system or partition for problems on the same HSL loop at approximately the same time this error occurred.</p> <p>Correct any problems you find with the remote and local systems or partitions that happened at approximately the same time and involve HSL Opticonnect or HSL loop components or Network Interface Controllers. When the remote system is IPL'd it will automatically reconnect with this system or partition.</p> <p>If there are no problems with the remote system or partition and there are no problems with the local system or partition then collect all the Product Activity Log information for this failure on both systems. Be sure to record all words in the SRC. Contact your next level of support.</p>	REM_SYS

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
69C7	<p>Abnormal or unexpected HSL OptiConnect disconnection from a remote system or partition.</p> <p>The local system or partition disconnected from a remote system or partition due to an unexpected event or failure. LIC will attempt to recover from the error. Intervention at the local or remote system or partition may be required.</p> <p>Possible causes are: time out, hang or hardware failure. The problem may be with: the local system or partition or the remote system or partition.</p> <p>If there was not a complete HSL loop before this error then a failure or power down in an HSL component between the local system or partition and the remote system or partition could have caused this error. Check for SRCs with FRUs like: HSL cables, HSL I/O bridge or a power problem in an expansion I/O tower or unit on this loop.</p> <p>Examine the SAL or serviceable event view you are working with on the local system or partition for failures on the same loop, or with the Network Interface Controller at approximately the same time.</p> <p>Examine the remote system or partition for problems. Correct any HSL or NIC problems you find with the remote and local systems or partitions.</p> <p>If there are no problems with the remote system or partition and there are no problems with the local system or partition then collect all the Product Activity Log (PAL) information for this failure on both systems. Be sure to record all words in the SRC. Contact your next level of support.</p>	REM_SYS LOC_SYS

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
69C8	<p>Abnormal or unexpected HSL OptiConnect disconnection from a remote system or partition.</p> <p>The local system or partition disconnected from a remote system or partition due to an unexpected event or failure. All of the HSL OptiConnect connections on this loop will be in a failed state. LIC will attempt to recover from the error. Intervention at the local or remote system or partition may be required. Possible causes are:</p> <ul style="list-style-type: none"> • time out of a critical message • LIC code / table problem • Network deadlock detected <p>The problem may be with:</p> <ul style="list-style-type: none"> • The local system or partition • The remote system or partition <p>Examine the Service Action Log (SAL), or serviceable event view you are using, on the local system or partition for HSL failures on the same HSL loop, or with the Network Interface Controller at approximately the same time this error occurred.</p> <p>Examine the remote system or partition for problems. Examine the Service Action Log (SAL), or serviceable event view you are using, on the remote system or partition for problems on the same HSL loop or with the Network Interface Controller at approximately the same time this error occurred.</p> <p>Correct any problems you find with the remote and local systems or partitions that happened at approximately the same time and involve HSL Opticonnect or HSL loop components or Network Interface Controllers.</p> <p>If there are no problems with the remote system or partition and there are no problems with the local system or partition then collect all the Product Activity Log information for this failure on all systems or partitions. Be sure to record all words in the SRCs. Contact your next level of support.</p>	REM_SYS LOC_SYS AJDG301
69C9	<p>Abnormal or unexpected HSL OptiConnect disconnection from a remote system or partition.</p> <p>The local system or partition disconnected from a remote system or partition due to an failure in a LIC virtualized bus unit. LIC will attempt to recover from the error. Possible causes are:</p> <ul style="list-style-type: none"> • LIC problem where the local bus unit is off line. • LIC problem where the remote bus unit is off line. <p>Examine the Service Action Log (SAL), or serviceable event view you are using, on the local system or partition for HSL Opticonnect failures that occurred at approximately the same time this error occurred.</p> <p>Examine the remote system or partition for problems. Examine the Service Action Log (SAL), or the serviceable event view you are using, on the remote system or partition for HSL Opticonnect problems that occurred at approximately the same time this error occurred.</p> <p>Collect all the Product Activity Log information for this failure on all systems and partitions on this HSL loop. Be sure to record all words in the SRCs. Contact your next level of support with the information you have collected.</p>	AJDG301 REM_SYS LOC_SYS

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
69CF	<p>Abnormal or unexpected HSL OptiConnect disconnection from a remote system or partition.</p> <p>LIC internal error. All systems participating in HSL OptiConnect will be disconnected. The system must be re-IPL'd to recover. Before re-IPL'ing the system initiate a main store dump.</p> <p>After getting the dump, examine the Service Action Log (SAL), or serviceable event view you are using, on the local system or partition for HSL Opticonnect failures that occurred at approximately the same time this error occurred.</p> <p>Examine the remote systems or partitions for problems. Examine the Service Action Log (SAL), or serviceable event view you are using, on the remote systems or partitions for HSL Opticonnect problems that occurred at approximately the same time this error occurred.</p> <p>Collect all the Product Activity Log information for this failure on all systems and partitions on this HSL loop. Be sure to record all words in the SRCs. Contact your next level of support with the information you have collected.</p>	AJDG301
69D0	Bus Expansion Adapter card failed Contact your next level of support.	FI00182 FI00055 AJDG301
69D8	Bus Expansion Adapter failed Contact your next level of support.	FI00182 FI00203 FI00055 LBUSADP AJDG301
69D9	<p>Host Ethernet Adapter (HEA) failure</p> <p>Firmware detected a hardware failure in the Host Ethernet Adapter (HEA).</p>	HEA
69DA	System log entry only, no service action required	
69DB	<p>LIC failure</p> <p>A Licensed Internal Code error occurred. The partition will continue to run with this Host Ethernet Adapter (HEA) disabled. Perform a partition dump and then IPL the partition to recover the HEA. Send the partition dump to your next level of support.</p>	SVCDOS
69DC	<p>The HEA is not connected to the Ethernet switch</p> <p>The Host Ethernet Adapter (HEA) is not connected to the Ethernet switch. If the HEA connection is not needed, no service action is required.</p> <p>If the HEA connection is needed, verify that the cable is connected and the switch is powered on. After repairing the problem, verify that the connection has been restored.</p>	
69DD	<p>The HEA connection to the Ethernet switch has been restored</p> <p>System log entry only, no service action required.</p>	
69DE	<p>HEA Media Interface Adapter Failure</p> <p>Firmware detected a failure in the HEA Media Interface Adapter.</p>	HEA AJDG301
69E0	<p>Bus Expansion Adapter card failed</p> <p>Contact your next level of support.</p>	FI00203 AJDG301

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
69E8	Bus Expansion Adapter failed Contact your next level of support.	FI00203 FI00205 FI00057 AJDG301
69F0	Bus Expansion Adapter failed Contact your next level of support.	FI00180 FI00182 FI00203 FI00056 FI00205 LBUSADP AJDG301
69F8	Bus Expansion Adapter failed Contact your next level of support.	FI00180 FI00203 FI00182 FI00186 FI00057 AJDG301
7001	ISDN call in rejected	GG4COMM
7002	Lines not selected	GG4COMM
7003	Network interfaces not selected	GG4COMM
7004	TCP/IP informational error This reference code is logged when the TCP/IP Attribute "Log Protocol Errors" is set, and the TCP/IP System LIC "silently discards" an inbound datagram. "Silently discard" is defined to mean discard the received datagram without reporting an error to the originating host device. Examples of such datagrams are those with checksums or destination addresses which are not valid. This reference code is for information only. Normally no action should be taken as a result of this reference code. It is generated in order to assist with remote device or TCP/IP network problem determination.	
7055	Statistics were logged, no service action required This reference code is logged for information only.	
7100	APPN session initiation attempt has timed out This reference code is used to indicate that LIC timed out on a request to initiate a session. The user must run problem analysis for this reference code. If this indicates a software problem, the user should dial IBM Software Support for assistance. The Problem Determination Procedure (PDP) will indicate whether the original timeout condition still exists and what the corrective actions should be.	AJDG301 GG4PL03 GG4PL01 GG4PL02

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
7101	<p>APPN session initiation attempt has failed</p> <p>This reference code is used to indicate that LIC attempted to satisfy a session initiation request, but some failure condition was detected by LIC. The failure condition could be a configuration or operational problem in the network.</p> <p>The user must run problem analysis for this reference code. If this indicates a software problem, the user should dial IBM Software Support for assistance.</p> <p>The Problem Determination Procedure (PDP) will indicate whether the original timeout condition still exists and what the corrective actions should be.</p>	GG4PL04 GG4PL05 GG4PL06 AJDG301
7102	APPN CP-CP session ended.	
7201	<p>A utility failure occurred.</p> <p>This reference code is for information only. The Uninterruptible Power System (UPS) is reporting a utility failure.</p>	
7202	<p>Utility power restored.</p> <p>This reference code is for information only. The Uninterruptible Power System (UPS) is reporting that utility power has been restored.</p>	
7203	<p>A battery low condition was detected.</p> <p>This reference code is for information only. The Uninterruptible Power System (UPS) is reporting a battery low condition.</p>	
7204	<p>Uninterruptible Power System reported a bypass active</p> <p>This reference code is for information only. The Uninterruptible Power System (UPS) is reporting a bypass is active.</p>	
7205	<p>Battery low condition was reset.</p> <p>This reference code is for information only. The Uninterruptible Power System (UPS) is no longer reporting a battery low condition.</p>	
7206	<p>UPS reported bypass no longer active</p> <p>This reference code is for information only. The Uninterruptible Power System (UPS) is no longer reporting a bypass active condition.</p>	
7207	<p>Battery Power Unit needs service</p> <p>The replacement period for BPU 1, installed in the System Unit, has been exceeded.</p>	FI00315
7208	<p>Battery Power Unit needs service</p> <p>The replacement period for BPU 2, installed in the System Unit, has been exceeded.</p>	FI00315
7209	<p>Battery Power Unit needs service</p> <p>The replacement period for BPU 1, installed in the Expansion Unit, has been exceeded.</p>	FI00315
720A	<p>Battery Power Unit replacement dates do not match</p> <p>The replacement dates for one of the Battery Power Units do not match. Run "Display Hardware Configuration" and verify that the dates match the labels on the batteries.</p>	

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
7701	SCSI jumper card was not detected.	21H7625 BACKPLN
7702	Incorrect SCSI jumper card detected	21H7625
7703	System LIC detected a program exception Storage Management detected a DASD datacheck condition and the defective sector was reallocated. Perform a system IPL to restart the system.	
7704	General failure detected by HRI component.	AJDG301
7777	Hardware configuration change detected A hardware resource is missing. The resource reported in to the system on a previous IPL, but has not reported in on the current IPL. This could occur for several different reasons. 1. It could be a normal situation where the resource is currently powered off. In this case, when the resource is powered back on, it will no longer be missing. 2. The hardware resource could also be missing if it has been removed from the system, for example, a tape drive that was replaced with a different tape drive. The service representative should use the Hardware service manager to remove the entry for this resource. 3. The resource may not have reported in on this IPL because it is failing. Perform problem analysis to determine why the resource is failing.	
8000	An external storage subsystem disk unit connection failed Look for other errors in the Service Action Log (SAL), or serviceable event view you are working with, and fix them.	
8001	An external storage subsystem disk unit connection failed Look for other errors in the Service Action Log, or serviceable event view you are working with, and fix them.	
8002	Maximum number of redundant connections exceeded An attempt to activate a connection from another I/O adapter to an external storage subsystem disk unit failed because the maximum number of connections are already active for this disk unit. No action required.	
8003	External storage subsystem disk unit connection was restored No action required.	
8004	An external storage subsystem disk unit connection failed Could not read configuration information from the disk unit. Look for other errors in the Service Action Log, or serviceable event view you are working with, and fix them.	
8005	High performance connection failed A high performance connection to an external storage subsystem disk unit failed. There are still two or more external storage subsystem disk unit connections, but performance might be degraded. Look for other errors in the Service Action Log, or serviceable event view you are working with, and fix them.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
8006	<p>High performance connection failed</p> <p>A high performance connection to an external storage subsystem disk unit failed.</p> <p>There is still one more external storage subsystem disk unit connection, but performance might be degraded.</p> <p>Look for other errors in the Service Action Log, or serviceable event view you are working with, and fix them.</p>	
8007	<p>High performance connection was restored</p> <p>A high performance connection to an external storage subsystem disk unit was restored.</p> <p>Performance is no longer degraded.</p> <p>No action required.</p>	
CF00	<p>Permanent error on optical device.</p> <p>A type D IPL terminated because of an optical load source device failure. If the optical load source is an external optical device, check the cables. If that does not correct the problem, replace the optical device. If the optical load source is an internal optical device, replace the optical device. If the optical load source is a virtual device, ensure it is set up correctly.</p>	SVCDOCS
CFFC	<p>Optical library device condition not expected</p> <p>The optical disk drive addressing within the optical library is incorrect. This error is likely to be the result of faulty cabling or switch setting following service to an optical library.</p> <p>Contact your hardware service provider.</p>	OPTLCBL DRVSWCH
CFFD	Optical drive failure	OPTLDRV
CFFF	Media determined to be bad in Optical library	
F103	<p>Main storage dump must be copied for service.</p> <p>Perform LICIP01.</p>	
F104	<p>Logical partition service function Main Storage Dump.</p> <p>The hypervisor terminated a partition with an unresponsive Operating System. A Main Store Dump must be done for service. Call your next level of support when the dump is complete.</p> <p>Perform LICIP01.</p>	
F105	Licensed Internal Code detected error	NEXTLVL
FDC0	<p>LIC program reported informational error</p> <p>This reference code is logged for information only. No action required.</p>	
FDC5	<p>LIC program failed and data was captured</p> <p>This reference code indicates first failure data capture (FFDC) data was collected for a problem reported by licensed internal code.</p> <p>The user should dial IBM Software Support for assistance.</p>	GG4FFDC

Table 3. Licensed Internal Code failing items details

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Failing Item	Description	Document Description
21H7625	Incorrect, defective or missing SCSI jumper card	Repair and Parts; removal and installation procedures
AJDG301	Licensed Internal Code	Service Functions; APAR or LICTR
AJDGP01	Service Processor LIC	Repair and Parts; removal and installation procedures
AJGLD01	I/O card Licensed Internal Code	Service Functions; APAR or LICTR
BACKPLN	Card enclosure or backplane	See the service documentation for instructions.
BRDGSET	PCI Bridge set, Multi-adapter bridge domain cards	See the service documentation for instructions.
BSTWRPL	FC 9074, FC 9079 Base I/O tower card with service processor	See the service documentation for instructions.
CBLALL	SPCN cable to HSL connected I/O tower	See the service documentation for instructions.
CTLPNCD	System Unit Control Panel Card Assembly	See the service documentation for instructions.
CVTCARD	HSL (SI) I/O Adapter for FC 5076 SPD migrated tower	See the service documentation for instructions.
DEVTERM	Terminating plug	See the service documentation for instructions.
DISKDRV	Disk Drive and Logic Card	See the service documentation for instructions.
DISKTRY	Disk unit tray	See the service documentation for instructions.
DRVSWCH	Drive address switch	See the service documentation for instructions.
GG4COMM	Communications failure	
GG4FFDC	LIC program failed and data was captured	
GG4PL01	System performance problem	
GG4PL02	Network performance problem	
GG4PL03	Switched link activation failure message not answered	
GG4PL04	Transmission groups in the network must be activated	
GG4PL05	Class-of-service specified does not provide a route	
GG4PL06	COS acceptable TGs and nodes do not exist for the route	
HEA	Host Ethernet Adapter	See the service documentation for instructions.
HSL_LNK	HSL (SI) cable or connection or interposer	See the service documentation for instructions.
LBUSADP	SPD local bus adapter, where optical daughters plug	See the service documentation for instructions.
LICIP16	LIC Isolation Procedure	Service Functions; APAR or LICTR
LOC_SYS	Local HSL Opticonnect system or partition.	Local HSL OptiConnect system
LPARCFG	"LPARCFG" LPAR configuration - processors, memory or ld src	See the service documentation for instructions.
LPARSUP	"LPARSUP" LPAR complex problem, call next level of support.	See the service documentation for instructions.
MABRCFG	Multi-adapter bridge configuration error or change	See the service documentation for instructions.
MASBUS	Multi-adapter bridge secondary bus or card slot	See the service documentation for instructions.
MA_BRDG	Multi-adapter bridge high level symbolic	See the service documentation for instructions.

Failing Item	Description	Document Description
NEXTLVL	Call your next level of support for assistance	Rio PIP 55
OPTDRIV	Optical Disk Drive	See the service documentation for instructions.
OPTLCBL	Optical Library drive cabling	See the service documentation for instructions.
OPTLDRV	Optical Library optical drive	See the service documentation for instructions.
OPT_CLN	Fiber optic cleaning kit	Fiber optic cleaning kit
PIOCARD	PCI nodes adapter card, IOP or IOA	See the service documentation for instructions.
PLDUMP	Platform dump occurred	See the service documentation for instructions.
PPCIMIN	Primary PCI bus in 5075 I/O tower	See the service documentation for instructions.
PPCISYS	Primary PCI bus in a system unit	See the service documentation for instructions.
PPCITWR	Primary PCI bus in a 5074 I/O tower	See the service documentation for instructions.
PRI_PCI	Primary system PCI bus to a MaB, high level symbolic	See the service documentation for instructions.
REM_NIC	A remote NIC in a cluster.	
REM_SYS	HSL opticonnect remote system or partition.	Remote HSL OptiConnect system
SIADPCD	High Speed Link (SI) I/O adapter card in FC 5074 I/O tower	See the service documentation for instructions.
SICNTRL	HSL (SI) controller, high level symbolic	See the service documentation for instructions.
SIIOADP	High Speed Link (SI) I/O adapter, high level symbolic	See the service documentation for instructions.
SIRGCFG	SI ring invalid configuration	See the service documentation for instructions.
SIRSTAT	System Interconnect ring status	See the service documentation for instructions.
SI_CARD	HSL (SI) controller card on a system unit	See the service documentation for instructions.
SI_PHB	PCI host bridge adapter, high level symbolic	See the service documentation for instructions.
SLOTERR	Multi-adapter bridge slot error	See the service documentation for instructions.
SPNLCRD	SPCN panel card	See the service documentation for instructions.
STORIOA	Active I/O processor	See the service documentation for instructions.
SVCDOCS	Customer engineer directed to system problem analysis	See the service documentation for instructions.
SVCDOCS	Equipment failure; not isolated	Service Functions; APAR or LICTR
SVCPROC	Service Processor	See the service documentation for instructions.
SYSBKPL	System unit backplane	See the service documentation for instructions.
TWRBKPL	FC 5075 I/O tower backplane	See the service documentation for instructions.
TWRCARD	SPCN failing component in HSL I/O tower	See the service documentation for instructions.
TWRPLNR	FC 5074, FC 9074, FC 9079 I/O tower PCI card planar	See the service documentation for instructions.
UG4USR1	Operator response required	

(A7xx, B7xx) Licensed Internal Code reference codes

Use this table for A7xx and B7xx reference codes.

Perform the following actions:

1. Find the unit reference code by looking at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.

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2. Look up the unit reference code in the following table.
3. Perform the actions in the **Description/Action** column of the table.

In all cases, once the failing item is determined, go to the locations table for the system you are working on to determine the location, and use the remove and replace procedure for the failing item.

Table 1. (A7xx, B7xx) Licensed Internal Code (LIC) Reference Codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0102	<p>Platform LIC detected an error</p> <p>A machine check occurred during IPL. Words 2 to 9 of this SRC contain additional diagnostic information. Record SRC words 1 through 9 before attempting to IPL again and report the problem to next level of support.</p>	SVCDOS
0103	<p>Platform LIC failure</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p> <p>The platform Licensed Internal Code (LIC) detected an internal problem.</p> <p>Collect all the SRC words and the platform system dump, then contact your next level of support.</p>	LICCODE
0104	<p>Platform LIC failure</p> <p>Machine check, undefined error occurred.</p>	LICCODE
0105	<p>Platform LIC detected an error</p> <p>More than one request to terminate the system was issued.</p>	NEXTLVL
0106	<p>Platform LIC failure</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p> <p>A secondary failure due to an invalid SRC occurred when the platform attempted to terminate.</p> <p>Collect all the SRC words and the platform system dump, then contact your next level of support.</p>	LICCODE
0107	<p>Platform LIC failure</p> <p>The server detected an unrecoverable machine check condition. Collect all the words of the SRC and the platform dump and send to your system manufacturer for analysis.</p>	SVCDOS
0200	<p>System firmware has experienced a low storage condition</p> <p>No immediate action is necessary.</p> <p>Continue running the system normally. At the earliest convenient time or service window work with your service provider to take a platform dump and reIPL the system.</p>	SVCDOS

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0302	<p>Platform LIC failure</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p> <p>Perform a platform system dump and notify your service provider. IPL the system.</p>	LICCODE
0441	<p>Service processor failure</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p> <p>The platform encountered an error early in the IPL or termination process.</p>	SVCPROC NEXTLVL
0443	Service processor failure	SVCPROC NEXTLVL
0601	<p>System log entry only, no service action required</p> <p>Support can use this SRC and associated data to determine why the time of day for a partition was lost. No corrective action is required.</p>	
0602	<p>Platform LIC detected an error</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p> <p>Platform Licensed Internal Code (LIC) detected an error condition. The second word indicates the severity of the error and the specific error condition. If word 2 is 10000A01 then record the SRC words and call your next level of support; otherwise this does not require service.</p>	NEXTLVL
0611	<p>System clock problem</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p> <p>For systems managed by an HMC, use the ASM interface to reset the system clock at power on standby. For systems without an HMC, you can ignore this error.</p> <p>If the error occurs a second time, call your next level of support.</p>	SVCDOCS
0621	<p>System log entry only, no service action required</p> <p>No service action required.</p>	
0641	<p>Platform LIC detected an error</p> <p>A platform LIC failure occurred. Perform a platform dump and contact your next level of support.</p>	SVCDOCS

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0650	<p>Platform LIC detected an error</p> <p>Resource management was unable to allocate main storage. A platform dump was started.</p> <p>Words 2 to 9 of this SRC contain additional diagnostic information. Record SRC words 1 through 9. Collect the platform dump and the configuration of the memory allocation for all partitions on this system. Provide the platform dump, configuration data, and the recorded SRC information to your next level of support.</p>	NEXTLVL
0651	<p>The system detected an error in the system clock hardware</p> <p>This is a serviceable event only if this error appears in a serviceable event view.</p> <p>If this is a serviceable event, then work with the FRU list in the serviceable event view if there is one. Otherwise, use the FRU list documented in the Failing Items column to determine the parts to exchange.</p> <p>If the system did not log this error as a serviceable event, then no service action is required.</p>	
0803 to 0804	System log entry only, no service action required	
0A00	<p>System log entry only, no service action required</p> <p>A user request initiated an I/O tower/drawer power off. No corrective action is required.</p>	
0A10	<p>System log entry only, no service action required</p> <p>No action is required, unless the Hardware Management Console (HMC) indicates that the concurrent platform firmware update failed. In that case, the system must be re-IPLed in order for the firmware update to occur. Collect the error log data for this SRC and contact PHYP development to debug the problem.</p>	
1150 to 1151	<p>System log entry only, no service action required</p> <p>No action needed unless a serviceable event was logged. If a serviceable event was logged, resolve that error.</p>	
1152	<p>System log entry only, no service action required</p> <p>No service action is required for this event.</p> <p>If there is a A7001150 src present, then the service processor was reset automatically to correct for the communications problem. If something more severe occurred there will be a SRC requiring a service action logged as well.</p>	
1160	<p>Service processor failure</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p> <p>The platform encountered an error communicating with the service processor. The platform code attempts a graceful shutdown of partitions and powers off the server after a certain time, or when the last partition indicates shutdown, whichever comes first.</p>	SVCPROC LICCODE

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1161	<p>System log entry only, no service action required</p> <p>The platform encountered a service processor event indicating that the power status has changed. Note that this is A7xx only.</p>	
1730	<p>Platform LIC detected an error</p> <p>The VPD for the system is not what was expected at IPL.</p> <p>When word 9 is 00180003, a redundant VPD chip exists, and the system will continue to run. Replace the VPD card at your next scheduled maintenance. When word 9 is not 00180003 replace the VPD card immediately.</p> <p>Work with the FRU list in the serviceable event view, if there is one. Otherwise, use the FRU list documented here to determine the parts to exchange.</p>	CAPACTY
1731	<p>Platform LIC detected an error</p> <p>The VPD for the system is not what was expected at IPL. The VPD on a memory DIMM is not correct and the memory on the DIMM cannot be used, resulting in reduced memory.</p> <p>Work with the FRU list in the serviceable event view, if there is one. Otherwise, use the FRU list documented here to determine the parts to exchange.</p>	MEMDIMM
1732	<p>Platform LIC detected an error</p> <p>The VPD for the system is not what was expected at IPL. The VPD on a processor card is not correct and the processor card cannot be used, resulting in reduced processing power.</p> <p>Work with the FRU list in the serviceable event view if there is one. Otherwise, use the FRU list documented here to determine the parts to exchange.</p>	ANYPROC
1733	<p>Platform LIC detected an error</p> <p>If required Capacity on Demand functions are not available, re-IPL the system. Otherwise, no service action is required.</p>	
173A	<p>System log entry only, no service action required</p> <p>A VPD collection overflow occurred, no service action required.</p> <p>If a system problem is suspected, look for other errors in the serviceable event view.</p>	
173B	<p>Platform LIC detected an error</p> <p>A platform LIC failure occurred during VPD collection.</p> <p>Look for and correct errors with SRCs of the form B1xxxxxx in the Serviceable Event View. If that does not correct the problem, contact your next level of support.</p>	SVCDPCS

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
4091	<p>User intervention required</p> <p>The system power on has reached a standby state. The firmware does not have partition configuration information.</p> <p>Use the Hardware Management Console (HMC) to activate one or more partitions to change the system from a standby state to an operating state. If the HMC does not manage the server, perform Restoring your server to factory settings.</p>	
4400	<p>There is a platform dump to collect</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p> <p>Use the operating system's interface designated to collect platform dumps.</p>	SVCDPCS
4401	<p>Platform LIC failure</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p> <p>The platform LIC detected an internal problem.</p> <p>Contact your next level of support.</p>	NEXTLVL
4402	<p>Platform LIC failure</p> <p>A platform LIC error occurred while attempting to allocate the memory necessary to create a platform resource dump.</p>	NEXTLVL
4700	<p>Platform LIC detected an error</p> <p>A problem occurred when initializing, reading, or using system VPD.</p> <p>Capacity on Demand is not available because the stored activation code is not valid. Contact your next level of support to verify your activation code. If the activation code is valid, replace the VPD card.</p>	SVCDPCS CAPACTY
4701	<p>Platform LIC detected an error</p> <p>A problem occurred when initializing, reading, or using system VPD. The IPL failed.</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p>	CAPACTY
4703	<p>Platform LIC failure</p> <p>A problem occurred when initializing, reading, or using system VPD. The Capacity on Demand function is not available. If Capacity on Demand function is required, re-IPL the system. If that does not correct the problem, contact your next level of support.</p>	LICCODE
4704	<p>Platform LIC detected an error</p> <p>The Capacity on Demand function is no longer available. If Capacity on Demand functions are required, look for and correct errors with SRCs of the form B1xxxxxx in the Serviceable Event View. If that does not correct the problem, or no errors were found, contact your next level of support.</p>	SVCDPCS

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
4705	<p>Platform LIC failure</p> <p>A problem occurred when initializing, reading, or using system VPD. The Capacity on Demand function is not available. If Capacity on Demand function is required, re-IPL the system. If that does not correct the problem, contact your next level of support.</p>	
4710	<p>Platform LIC detected an error</p> <p>A communications problem with the service processor occurred while initiating Capacity on Demand. The Capacity on Demand function is not available.</p> <p>If Capacity on Demand function is required, look for errors with SRCs of the form B1xxxxxx or B7xx69xx in the Serviceable Event View. Work those errors. If that does not correct the problem, contact your next level of support.</p>	SVCDOCS
4712	<p>Platform LIC detected the VPD card is missing</p> <p>A problem occurred when initializing, reading, or using system VPD.</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p>	CAPACTY
4713	<p>Platform LIC detected an error</p> <p>The VPD card has been exchanged with a not valid card. Reinstall the original VPD card in the system.</p>	SVCDOCS
4714	<p>Platform LIC has detected a new VPD card</p> <p>The new VPD card requires new activation codes. Enter the new activation codes.</p>	SVCDOCS
4715	<p>Platform LIC detected an error</p> <p>A problem occurred when initializing, reading, or using system VPD.</p> <p>Look for errors with SRCs of the form B1xxxxxx in the Serviceable Event View. Work those errors first. If that does not correct the problem, replace the VPD card.</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p>	SVCDOCS CAPACTY
4716	<p>User intervention required</p> <p>The Capacity on Demand activation code recovery period has been started. Either obtain more capacity by obtaining new activation codes or allocate fewer resources in the LPAR configuration.</p>	SVCDOCS LPARCFG
4730	<p>Platform LIC detected an error</p> <p>A problem occurred when configuring the logical partitions on the system. More resources were allocated than there are available for use. Either obtain more capacity by obtaining new activation codes or allocate fewer resources in the LPAR configuration.</p>	SVCDOCS LPARCFG

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
4731	Platform LIC detected an error The system has been running with full Capacity on Demand resources activated. In one hour, the system will terminate and unlicensed resources will no longer be available. To prevent the system from terminating, enter an activation code of all zeroes. Then obtain the proper activation codes for the resources being used or allocate fewer resources in the LPAR configuration.	SVCDOS
4733	Platform LIC failure The Capacity on Demand function is not available. If Capacity on Demand function is required, re-IPL the system. If that does not correct the problem, contact your next level of support.	
4740	Platform LIC detected an error An incorrect activation code has been detected. Resources associated with this activation code have been disabled. Enter a valid activation code.	
4741	Platform LIC detected an error The number of allowable attempts to enter a valid activation code has been exceeded. The system will continue to run, but a system IPL is required in order to retry entering a valid activation code.	
4742	Platform LIC detected an error A communications problem with the service processor occurred. No Capacity on Demand changes can be made, but you can continue to run with the current Capacity on Demand resources. Look for errors with SRCs of the form B1xxxxxx or B7xx69xx in the Serviceable Event View. Work those errors first. If that does not correct the problem, re-IPL the system. If that does not correct the problem, contact your next level of support.	SVCDOS
4747	User intervention required One hour remains until the On/Off Capacity on Demand request expires. Permanently activate the temporary Capacity on Demand resources, enter a new On/Off Capacity on Demand request for the temporary resources, or remove all temporary resources from partitions before the request expires.	SVCDOS
4748	User intervention required One hour remains until the Reserve Capacity on Demand request expires. In order to reactivate temporary resources, a new Reserve Capacity on Demand enablement code is required.	SVCDOS
4749	User intervention required One hour remains until the Trial Customer on Demand activation expires. Obtain a permanent activation code or remove all temporary resources from partitions before the request expires.	SVCDOS
4750	A Capacity on Demand change has been detected A Reserve Capacity on Demand resource has been activated.	
4788	System log entry only, no service action required The data obtained from the system is not what was expected. The IPL will continue. Should other errors occur, contact your next level of support.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
47C1	Capacity on Demand data mismatch The data obtained from the system is not what was expected. The system will perform a slow IPL in order to obtain the correct data. If other errors occur, contact your next level of support.	
47CB	Fast system IPL changed to slow system IPL The data obtained from the system is not what was expected. The system will perform a slow IPL in order to obtain the correct data. If other errors occur, contact your next level of support.	
47CD	Platform LIC detected an error The server detected a not valid Capacity On Demand activation and terminated the system. The allocated resources for the system might exceed those that are available for use.	SVCDOCS
47FF	System log entry only, no service action required The Capacity on Demand History Log has been written to the error log. No service action is required.	
5120	Platform LIC detected an error Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange. If the system is not exhibiting problematic behavior, this error may safely be ignored. Otherwise, contact your next level of support.	NEXTLVL
5121	Platform LIC failure Licensed Internal Code program exception occurred. Platform Licensed Internal Code detected a programming problem for which a platform dump may have been initiated. Send the system error log and the platform dump, if it occurred, to your next level of support.	NEXTLVL
5122	Platform LIC detected an error Platform Licensed Internal Code detected that an IOP request failed. This error indicates a failure during a search for the load source. There may be a number of these failure prior to finding a good load source. This is normal. If a B2xx3110 error is logged, a B2xx3200 or B7005122 may be posted to the control panel. Work the B2xx3110 error in the Serviceable Event View. If the system IPL hangs at B2xx3200 or B7005122 and you cannot check the SRC history, perform the actions indicated for the B2xx3110 SRC.	SVCDOCS
5123	Platform LIC detected an error A Licensed Internal Code program exception or data collection occurred. This may indicate an IOP programming problem or an IO Adapter boot problem. Look for other errors. If no other errors are present, Licensed Internal Code has recovered from any exception conditions, or this SRC has logged informational platform boto or hardware data.	

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5190	<p>Operating System error</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p> <p>The platform detected a problem in an Operating System. Check for errors in the partition ID specified in word 4 of the SRC. If correcting those errors does not correct the problem, or if you find no errors, contact your next level of support.</p>	SVCDOCS
5191	<p>Platform LIC detected an error</p> <p>A virtual adapter configuration error occurred.</p> <p>A partition tried to use a virtual adapter which is associated with another virtual adapter in a remote partition and virtual slot. However, either no virtual adapter is configured there, or the wrong kind of virtual adapter is configured there.</p> <p>The partition ID of the virtual adapter with the problem is in word 4 of the SRC (in hexadecimal format). The virtual slot number of the adapter with the incorrect configuration is the last four digits of word 6 of the SRC (in hexadecimal format).</p> <p>Use the Hardware Management Console (HMC) to verify or reconfigure the incorrect virtual adapter configuration. If the configuration is correct, continue with the next failing item in the list.</p>	SVCDOCS LICCODE
5209	<p>Platform LIC detected an error</p> <p>System Licensed Internal Code detected an IOP timeout during IOP IPL.</p> <p>This may be caused by loose connections, improperly seated cards, media, or removeable media drive not in a ready state. Look for other errors.</p>	
5219	<p>Platform LIC detected an error</p> <p>Information only, no service action required.</p> <p>Licensed Internal Code program exception occurred.</p> <p>An IOP signalled to system Licensed Internal Code that it had entered a critical internal state. Licensed Internal Code automatically attempted to restart the IOP.</p>	
5300	<p>Platform LIC detected a failure while partitioning resources</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p> <p>Platform partitioning code encountered an error. This SRC represents a large number of possible problems, most of which involve the platform Licensed Internal Code (LIC).</p> <p>Work any error logs found in the Serviceable Event View. If this fails to correct the problem, or if there are no other errors, contact your next level of support.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5301	<p>User intervention required</p> <p>System detected a problem with the Logical Partition (LPAR) Configuration.</p> <p>Use the Hardware Management Console to reconfigure the LPAR configuration.</p> <p>Check Hardware Management Console (HMC) partition state.</p> <ol style="list-style-type: none"> 1. If in Recovery state then use the HMC to perform "Recovering partition data on a managed system". 2. Use HMC to activate partitions. 	SVCDOS
5400	<p>A resource has been disabled due to hardware problems</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p> <p>The platform detected a problem with a processor. The processor is not functional.</p> <p>Look in the Serviceable Event View for a B1xx xxxx error that implicates a processor.</p> <p>If the Serviceable Event View contains no B1xx xxxx error, or if resolving the error fails to correct the problem, contact your next level of support.</p>	SVCDOS
5600	<p>Problem initializing, reading or using system VPD</p> <p>Look for other errors in the Serviceable Event View. If no other errors have been logged, contact your next level of support.</p>	
5601	<p>Platform LIC failure</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p> <p>There was a problem initializing, reading, or using system VPD.</p>	NEXTLVL
6900	<p>PCI host bridge failure</p> <p>If you find a B7006981 SRC logged at about same time and listing parts from same enclosure as one of the FRUs here, then close this problem and work the B7006981 SRC.</p> <p>Work with the FRU list in the serviceable event view, if there is one. Otherwise, use the FRU list documented here to determine the parts to exchange.</p> <p>If the Serviceable Event View is not available, use the failing item list presented here for servicing this reference code.</p>	PRIPCI MA_BRDG MABIP50 PIOCARD
6906	<p>System bus error</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p>	SIIOADP

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6907	<p>System bus error</p> <p>If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.</p>	<p>SIOADP LICCODE</p>
6908	<p>System bus error</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p>	<p>SIOADP MA_BRDG</p>
6909	<p>System bus error</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p>	<p>SIOADP MA_BRDG LICCODE</p>
6944	<p>Platform LIC detected an error</p> <p>A system bus appears to be empty. If the bus is not empty, a hardware or configuration problem might exist. Look for other errors.</p>	
6950	<p>Platform LIC detected an error</p> <p>A platform dump has occurred. The system has lost all the configured system settings (such as the HMC access and ASMI passwords, time of day, network configuration, hardware deconfiguration policies, etc.) that you might have set through user interfaces. Also, the system has lost the platform error logs and partition-related information, and the service processor is reset. Perform the recovery actions for the SVCPROC FRU but do not replace the service processor. The platform dump should be sent to your service provider.</p>	<p>SVCDOCS</p>
6951	<p>Platform LIC detected an error</p> <p>An error occurred because a partition needed more NVRAM than was available.</p> <p>The partition is still functional, but is operating in a degraded mode. Configuration information may be lost at the next IPL. In order to make more NVRAM available, delete one or more partitions.</p>	<p>SVCDOCS</p>
6965	<p>Platform LIC detected an error</p> <p>Unknown hardware detected. Look for other errors.</p>	
6970	<p>PCI host bridge failure</p> <p>If this event does not appear in a serviceable event view, no service action is required.</p> <p>If this event appears in a serviceable event view, and if you find a B7006981 SRC logged at about the same time and listing parts from the same enclosure as one of the FRUs listed in the serviceable event view for B7006970, then close this problem and work the B7006981 SRC. Otherwise, work on the B7006970 SRC.</p>	<p>PRIPCI MA_BRDG MABIP50 PIOCARD</p>
6971	<p>PCI secondary bus failure</p> <p>If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.</p>	<p>MABIP51 PIOCARD MASBUS MA_BRDG</p>

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6972	<p>System bus error</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p>	MA_BRDG PRIPCI
6973	<p>System bus error</p> <p>If you find a B7006981 SRC logged on the same expansion unit as one of the FRUs here, then close this problem and work the B7006981 SRC. Use the unit value of the location codes to determine if the expansion unit is the same.</p> <p>Work with the FRU list in the serviceable event view, if there is one. Otherwise, use the FRU list documented here to determine the parts to exchange.</p> <p>If the first half of word 7 is not 0001, remove SVCPROC (the service processor) from the list of possible FRUs.</p>	PIOCARD MA_BRDG SVCPROC PRIPCI MASBUS
6974	<p>IOP rejected the assignment of an IOA</p> <p>An I/O Processor rejected the assignment of an I/O Adapter during the IPL of an i5/OS partition.</p> <p>If the partition IPLed successfully, this event is logged for information only. No service action is required.</p> <p>If the partition failed to IPL, replace the IOA. If that does not resolve the problem, replace the IOP that controls the IOA.</p> <p>The Direct Select Address (DSA) of the IOA is in word 7 of the SRC. In order to find the location of the IOA, see DSA translation to get the unit type in which the IOA is located. Then, using the DSA and unit type, go to Card positions to find the location of the IOA.</p>	
6980	<p>Network Interface Controller (NIC) resource failure</p> <p>If the serviceable event view contains a FRU list, work with those FRUs. Otherwise, exchange the failing items listed here.</p> <p>NOTE: A fiber optic cleaning kit may be required for optical HSL connections.</p> <p>A platform dump has occurred. Send the dump to your service provider.</p>	SICNTRL LICCODE OPT_CLN
6981	<p>High Speed Link (HSL) I/O bridge failure</p> <p>If you find a 1xxx SRC logged on the same expansion unit as one of the FRUs here, then close this problem and work the 1xxx SRC. Use the unit value of the location codes to determine if the expansion unit is the same.</p> <p>Work with the FRU list in the serviceable event view, if there is one. Otherwise, use the FRU list documented here to determine the parts to exchange.</p>	SIIOADP
6982	<p>High Speed Link (HSL) connection failure</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p> <p>NOTE: A fiber optic cleaning kit may be required for optical HSL connections.</p>	RIOIP11 HSL_LNK OPT_CLN FRPORT TOPORT

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6983	<p>An invalid High Speed Link (HSL) configuration was detected</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p> <p>The four rightmost characters of word 4 in the reference code represent the Program Return Code (PRC), which describes the problem detected. The four leftmost digits of word 7 represent the loop number in hexadecimal format. Convert the loop number to decimal format before comparing it to loop numbers shown in serviceable event views and service tools.</p> <p>To determine the problem, find the PRC in the list below.</p> <p>Note: The FRU description in the serviceable event view may already contain a message that identifies the problem.</p> <ul style="list-style-type: none"> • xxxx 0000 indicates bus numbers were not assigned. Contact your next level of support. • xxxx 0008 indicates the system serial number is not set. Set the serial number on the system unit. If the problem persists contact your next level of support. • xxxx 029A indicates an unsupported I/O tower hardware level. Upgrade the tower hardware to a supported level. • xxxx 3201 indicates there are HSL OptiConnect clustered systems on both HSL/RIO loops on the same adapter. You will need to ensure that only one HSL/RIO loop per adapter is used for HSL OptiConnect. • xxxx 3211 indicates two or more HSL adapters are connected to each other on the same system unit. This is not a supported configuration. Re-cable the system so that it has a supported configuration. • xxxx 3212 indicates the HSL adapter hardware level does not support HSL OptiConnect. Upgrade your HSL adapter hardware to a supported level for HSL OptiConnect. • xxxx 3213 indicates that the switchable tower configuration is not valid. Re-cable your HSL OptiConnect so that it has a supported configuration. • xxxx 3217 indicates there is a model 5791, 5792, or 5794 IO drawer on a loop with clustered systems. This is not a supported configuration. • xxxx 3218 indicates a concurrent tower add is not allowed due to an incomplete loop. Look for and resolve errors on the loop. <p>This ends the procedure.</p>	SVCDOCS
6984	<p>System log entry only, no service action required</p> <p>An HSL loop has switched to its alternate path. This is an informational SRC only.</p> <p>Word 7 of the SRC contains the loop number in the leftmost 4 digits. The loop number is in hexadecimal format. You must convert the hexadecimal loop number into decimal format to recognize the loop number.</p> <p>This SRC can be caused by a tower on the HSL loop powering off.</p> <p>This SRC may also appear in a Serviceable Event View you are using, with a B700 6982 or B700 6981 logged at approximately the same time. In that case the other SRC is reporting a failure and this SRC is reporting that the alternate RIO path is now being used. Service the other SRC if present.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6985	<p>High Speed Link (HSL) loop status message</p> <p>This is a serviceable event only if this error is in a serviceable event view. If this is a serviceable event then perform RIOIP12. Otherwise if this is NOT a serviceable event then to determine what this SRC means use symbolic FRU SIRSTAT.</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p> <p>NOTE: A fiber optic cleaning kit may be required for optical HSL connections.</p>	SVCDOCS HSL_LNK OPT_CLN FRPORT TOPORT
6986	<p>System bus error</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p> <p>If the Serviceable Event View is not available then use the failing item list presented here for servicing this reference code.</p>	TWRCARD PWRCBL
6987	<p>High Speed Link (HSL) connection failure</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p> <p>If the Serviceable Event View is not available then use the failing item list presented here for servicing this reference code.</p>	HSL_LNK OPT_CLN
6990	<p>Service processor failure</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p> <p>If the Serviceable Event View is not available then use the failing item list presented here for servicing this reference code.</p>	SVCPROC
6991	<p>Platform LIC failure</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p>	LICCODE

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6992	<p>Service processor reset occurred</p> <p>If this SRC does not appear in a serviceable event view then no service action is required. The service processor reset was successful.</p> <p>If this SRC appears in a serviceable event view, the service processor reset failed. The system will continue to run if a redundant service processor was available. If a redundant service processor was not available, the system terminated.</p> <p>Look for and correct errors with SRCs of the form B1xx xxxx in the Serviceable Event View that were logged within approximately one hour of the time this SRC occurred.</p> <p>If there are no B1xx xxxx SRCs, or they do not resolve the problem, do the following:</p> <p>If there is only one service processor, replace it. Ensure that the firmware is at the most recent code level.</p> <p>If there is more than one service processor, use the Advanced Server Management Interface (ASMI) to find the Garded service processor (the one currently not being used) and replace it. Ensure that the firmware is at the most recent code level.</p>	SVCDOCS
6993	<p>Service processor failure</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p> <p>If the Serviceable Event View is not available then use the failing item list presented here for servicing this reference code.</p>	SVCPROC LICCODE
6994	<p>Service processor failure</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p> <p>If the Serviceable Event View is not available then use the failing item list presented here for servicing this reference code.</p>	SVCPROC
6995	<p>User intervention required</p> <p>The system is in the process of terminating.</p> <p>When all the partitions have terminated, an SRC indicating the exact cause will be shown on the operator panel.</p> <p>If the system does not terminate in a reasonable amount of time, one or more partitions may need to be terminated manually. If this is not possible, re-IPL the system and look for errors. If no errors are found, contact your next level of support.</p>	
69C2	<p>System log entry only, no service action required</p> <p>Information only, no service action required.</p> <p>HSL OptiConnect normal connection to another system or partition.</p> <p>HSL OptiConnect established connection normally. The local system or partition is participating in HSL Opticonnect with other systems or partitions on the same HSL loop.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
69C3	<p>System log entry only, no service action required</p> <p>Information only, no service action required.</p> <p>Opticonnect normal remote disconnection from OptiConnect participation.</p> <p>HSL Opticonnect disconnected normally from a remote node. The local system or partition has stopped participating in HSL Opticonnect with the remote system or partition on the same HSL loop. Possible reasons include:</p> <ul style="list-style-type: none"> • A remote system or partition went off line due to a normal power off or because HSL Opticonnect became disabled. 	
69C6	<p>Platform LIC detected an error</p> <p>Abnormal or unexpected HSL OptiConnect disconnection from a remote system or partition.</p> <p>The local system or partition disconnected from a remote system or partition due to an unexpected event or failure. The problem, which most likely originates with the remote system or partition, probably requires intervention at the remote system. Examine both the local and remote HSL OptiConnected systems or partitions for problems on this HSL loop.</p> <p>Possible reasons include: A fatal software or hardware error in the remote system or partition, or a power failure in the remote system.</p> <p>If a complete HSL loop did not exist before this error occurred, the cause of this error might be a failure or power down in an HSL component between the local system or partition and the remote system or partition. Check for a problem with the following:</p> <ul style="list-style-type: none"> • An HSL cable • The HSL I/O bridge • Power in an expansion I/O tower or unit on this loop <p>On the local system or partition, examine the Service Action Log (SAL) or serviceable event view. Look for HSL failures that occurred on the same HSL loop at approximately the same time as this error.</p> <p>Examine the remote system or partition for problems. If the remote system or partition is powered on and IPL'd, examine the SAL or serviceable event view on the remote system or partition. Look for problems on the same HSL loop that occurred at approximately the same time as this error.</p> <p>Correct any problems you find with the remote and local systems or partitions that happened at approximately the same time and involve HSL Opticonnect or HSL loop components or Network Interface Controllers.</p> <p>When the remote system is IPL'd, it will automatically reconnect with this system or partition. If you find no problems with either the local or the remote systems or partitions, collect all the Product Activity Log (PAL) information for this failure on both systems. Be sure to record all words in the SRC. Contact your next level of support.</p>	SVCDOS LICCODE

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
69C7	<p>Platform LIC detected an error</p> <p>Abnormal or unexpected HSL OptiConnect disconnection from a remote system or partition.</p> <p>The local system or partition disconnected from a remote system or partition due to an unexpected event or failure. Licensed Internal Code will attempt to recover from the error. Intervention at the local or remote system or partition might be required.</p> <p>Possible causes include time out, hang, or hardware failure. The problem may be with the local system or partition or the remote system or partition. If a complete HSL loop did not exist before this error occurred, the cause of this error might be a failure or power down in an HSL component between the local system or partition and the remote system or partition. Check for SRCs with FRUs that indicate problems with the following:</p> <ul style="list-style-type: none"> • HSL cables • The HSL I/O bridge • Power in an expansion I/O tower or unit on this loop <p>On the local system or partition, examine the SAL or serviceable event view. Look for failures on the same loop or with the Network Interface Controller that occurred at approximately the same time as this error.</p> <p>Examine the remote system or partition for problems. Correct any HSL or NIC problems you find with the remote and local systems or partitions. If you find no problems with either the local or the remote systems or partitions, collect all the PAL information for this failure on both systems. Be sure to record all words in the SRC. Contact your next level of support.</p>	SVCDOCS LICCODE

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
69C8	<p>Platform LIC detected an error</p> <p>Abnormal or unexpected HSL OptiConnect disconnection from a remote system or partition.</p> <p>The local system or partition disconnected from a remote system or partition due to an unexpected event or failure. All of the HSL OptiConnect connections on this loop will be in a failed state. Licensed Internal Code will attempt to recover from the error. Intervention at the local or remote system or partition might be required. Possible causes are:</p> <ul style="list-style-type: none"> • Time out of a critical message • Licensed Internal Code code / table problem • Network deadlock detected <p>The problem may be with:</p> <ul style="list-style-type: none"> • The local system or partition • The remote system or partition <p>On the local system or partition, examine the SAL or serviceable event view. Look for HSL failures on the same HSL loop or with the Network Interface Controller that occurred at approximately the same time as this error.</p> <p>Examine the remote system or partition for problems. On the remote system or partition, examine the SAL or serviceable event view. Look for problems on the same HSL loop or with the Network Interface Controller that occurred at approximately the same time as this error.</p> <p>Correct any problems you find with the remote and local systems or partitions that happened at approximately the same time and involve HSL Opticonnect or HSL loop components or Network Interface Controllers.</p> <p>If there are no problems with the remote system or partition and there are no problems with the local system or partition then collect all the Product Activity Log information for this failure on all systems or partitions. Be sure to record all words in the SRCs. Contact your next level of support.</p>	SVCDOCS LICCODE

A7xx, B7xx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
69C9	<p>Platform LIC detected an error</p> <p>Abnormal or unexpected HSL OptiConnect disconnection from a remote system or partition.</p> <p>The local system or partition disconnected from a remote system or partition due to an failure in a Licensed Internal Code virtualized bus unit. Licensed Internal Code will attempt to recover from the error. Possible causes are:</p> <ul style="list-style-type: none"> • Licensed Internal Code problem where the local bus unit is offline. • Licensed Internal Code problem where the remote bus unit is offline. <p>On the local system or partition, examine the SAL or the serviceable event view. Look for HSL Opticonnect failures that occurred at approximately the same time as this error.</p> <p>Examine the remote system or partition for problems. On the remote system or partition, examine the SAL or the serviceable event view. Look for HSL Opticonnect problems that occurred at approximately the same time as this error.</p> <p>Collect all the Product Activity Log information for this failure on all systems and partitions on this HSL loop. Be sure to record all words in the SRCs. Contact your next level of support.</p>	SVCDOCS LICCODE
69CF	<p>Platform LIC detected an error</p> <p>Abnormal or unexpected HSL OptiConnect disconnection from a remote system or partition.</p> <p>Licensed Internal Code internal error. All systems participating in HSL OptiConnect will be disconnected. You must re-IPL the system to recover. Before re-IPL'ing the system, start a platform dump.</p> <p>On the local system or partition, after getting the dump, examine the SAL or the serviceable event view. Look for HSL Opticonnect failures that occurred at approximately the same time as this error.</p> <p>Examine the remote systems or partitions for problems. On the remote systems or partitions, examine the SAL or the serviceable event view. Look for HSL Opticonnect problems that occurred at approximately the same time as this error.</p> <p>Collect all the PAL information for this failure on all systems and partitions on this HSL loop. Be sure to record all words in the SRCs. Contact your next level of support.</p>	SVCDOCS LICCODE
69E1	<p>Host Channel Adapter</p> <p>The 12X Host Channel Adapter has failed.</p>	HCA
69E2	<p>Platform LIC failure</p> <p>A Platform Licensed Internal Code error occurred related to 12X technology. The system will continue to run with this Host Channel Adapter disabled. Perform a platform dump prior to IPLing the system. An IPL is required to recover the Host Channel Adapter.</p>	LICCODE
69E3	<p>System log entry only, no service action required</p> <p>Part of the HCA chip failed but was not terminating. When thresholded, these errors will result in a B70069E1.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
69E4	An invalid High Speed Link (HSL) configuration was detected An error was detected in the fabric. Have the customer check for problems reported at the IBM Network Manager. This includes cases such as path migration, etc.	SVCDOCS
69E5	System log entry only, no service action required A 12X communications error occurred. Unrecognized command from Subnet Manager. Does not require service.	
69E6	System log entry only, no service action required The cable connection to the switch is broken. Verify that the cable is connected and the switch is powered on. After repairing the problem, verify that the connection has been restored by using the IBM Network Manager. Does not require service.	
69E7	System log entry only, no service action required The cable connection to the switch has been restored. No service action required.	
69E9	System log entry only, no service action required Initial communication has occurred with the Subnet Manager. No service action required. The CEC and switch firmware are now communicating.	
69EA	System log entry only, no service action required Reported when the logical switch receives a setPortInfo for the switch management port that sets a new SM LID. This indicates the point where DMA can report changes in switch port states to SM via a TRAP and also that SM has received and accepted out responses to the initial gets. This proves that there is 2-way communication. Note that this will also tell us when a subnet merge has occurred and a new SM has issued a setPortInfo with an SMLID that differs from the previous one. No service action required.	
69EB	User intervention required A 12X configuration error was detected by the HCA. Verify that the configuration is correct at the HCA. The Port 1 and 2 configurations conflict.	SVCDOCS
69EC	User intervention required A 12X adapter in the server does not support connections to I/O enclosures. Upgrade the adapter at the location given in the serviceable event view to a new version. Contact support for assistance.	SVCDOCS
69ED	System log entry only, no service action required A 12X cable connection initialized to a lower signal frequency. The link is operational but operating at a bandwidth below its rated capacity. This may lead to degraded I/O throughput.	
BAD1	Platform firmware detected an error Platform firmware detected unexpected or not valid data returned from non-platform firmware. Contact your next level of support.	NEXTLVL

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
C2AC	<p>System log entry only, no service action required</p> <p>The Capacity on Demand License acceptance has completed.</p> <p>No corrective action is required.</p>	SVCDOS
F103	<p>Platform LIC failure</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p> <p>The platform LIC detected an internal problem.</p> <p>Collect all the SRC words and the platform system dump, then contact your next level of support.</p>	LICCODE
F104	<p>Operating System error</p> <p>Platform Licensed Internal Code terminated a partition.</p> <p>If SRC word 3 is 0007, then a user may have initiated a function 22 prior to the operating system completing the IPL. If a function 22 was not performed, or if SRC word 3 is not 0007, look for other serviceable errors which occurred at same time frame.</p>	SVCDOS
F105	<p>Platform LIC detected an error</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.</p> <p>The platform LIC detected an internal problem.</p> <p>Collect all the SRC words and the platform system dump, then contact your next level of support.</p>	NEXTLVL
F10A	<p>Platform LIC detected an error</p> <p>Look for errors with SRCs of the form B1xx xxxx in the Serviceable Event View. Work those errors first. If that does not correct the problem, collect all the SRC words and the platform system dump, then contact your next level of support.</p>	SVCDOS
F10B	<p>A resource has been disabled due to hardware problems</p> <p>Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange. The platform detected a problem with a processor. The processor is not functional. Look in the Serviceable Event View for a B1xx xxxx error that implicates a processor. If the Serviceable Event View contains no B1xx xxxx error, or if resolving the error fails to correct the problem, contact your next level of support.</p>	ANYPROC
F120	<p>Platform firmware detected an error</p> <p>The platform is unable to support the requested architecture options requested by the operating system via ibm,client-architecture-support interface.</p>	

(A9xx, B9xx) Reference codes

The A9xx and B9xx SRCs and their associated unit reference codes give information about the user program.

1. Refer the user to the Reference code list in Troubleshooting. For additional help, the user should contact the next level of support.

Note: For a brief description of some of the C9xx codes, see Initial Program Load (IPL) Information.

2. If a Licensed Internal Code error is suspected and the recovery action recommends an IPL, then take a main storage dump to save the error conditions **before** the customer does an IPL. Support may need the information saved in this dump. For more information, see Working with Storage Dumps.
3. Have the customer continue with the recommended recovery action.

(AAxx) Partition firmware reference (attention) codes

Partition firmware posts AAxx system reference (attention) codes, which offer information about the next target state for the platform firmware. These codes might also indicate that you need to perform an action, such as opening a firmware console or checking serial connections.

The AAxx table uses the following format:

- The first column, Reference Code, contains numbers that identify a particular action your server performs during initialization of firmware.
- The second column, Description/Action, offers a brief description about this SRC. It may also contain instructions for continuing the problem analysis.
- The third column, Failing Item, offers a link to instructions service actions for recovering from a hang on an attention code.

Note: Click the failing item code only when you experience a hang condition on an attention code.

For example, a hang condition occurs when your server performs a requested action but the SRC in the control panel display does not change for several minutes and the partition firmware appears to be hung.

Table 1. (AAxx) Partition firmware reference (attention) codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
AA00E158	<ol style="list-style-type: none"> 1. Open ASMI 2. Select Power/Restart Control-->Power On/Off System 3. Select 'continue to operating system' on the option labeled "AIX/Linux partition mode boot" 	
AA00E159	<p>Waiting for the serial connection to the service processor to be established</p> <p>Check the serial connection to the service processor. Correct all problems that are found.</p>	
AA00E175	<p>The I/O configuration exceeds the recommended size. Some operating systems might crash when using this configuration.</p> <p>Increase the logical memory block size to 256 megabytes (MB) and reboot the managed system.</p> <p>Note: If the logical memory block size is already 256 MB, contact your next level of support.</p>	FWFLASH
AA00E1A8	The system is booting to the open firmware prompt	FWFLASH

AAxx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
AA00E1A9	<p>The system is booting to the System Management Services (SMS) menus. Note: If the system or partition returns to the SMS menus (as indicated by this progress code) after a boot attempt failed, use the ASMI menus to inspect the progress code history:</p> <ul style="list-style-type: none"> • Look for a BAxx xxxx reference (error) code, which might indicate why the boot attempt failed. When you find a BAxx xxxx error code, see “(BAxx) Partition firmware reference (error) codes” on page 469 to find the code, then follow the actions indicated to resolve the boot problem. • If you do not find a BAxx xxxx error code, see Problems with loading and starting the operating system (for AIX® and Linux®) to resolve the boot problem. 	FWFLASH
AA00E1B0	<p>Waiting for the user to select the language and keyboard</p> <p>Select the language and keyboard.</p>	PFW1548
AA00E1B1	<p>Waiting for the user to accept or decline the license agreement</p> <p>Accept or decline the license agreement.</p>	PFW1548
AA00E1F3	<p>Admin access password prompt</p> <p>On the firmware console, enter the password for the admin user of the service processor</p>	FWPWD
AA060007	<p>A keyboard was not found</p> <p>Ensure that a keyboard is attached to the USB port assigned to the partition.</p>	
AA06000B	<p>The system or partition was not able to find an operating system on any of the devices in the boot list.</p> <p>Modify the boot list using the SMS menus so that it includes devices that are known to have a good copy of the operating system and retry the boot. If you are still unable to boot an operating system, go to Problems with loading and starting the operating system.</p>	
AA06000C	<p>The media in a device in the boot list was not bootable.</p> <p>Replace the media in the device with known-good media, or modify the boot list to boot from another bootable device. If you are still unable to boot an operating system, go to Problems with loading and starting the operating system.</p>	
AA06000D	<p>The media in the device in the bootlist was not found under the I/O adapter specified by the bootlist.</p> <p>Verify that the medium (CD-ROM, for example) from which you are trying to boot is bootable, or try another medium. If you are still unable to boot an operating system or diagnostic CD-ROM, go to Problems with loading and starting the operating system.</p>	
AA06000E	<p>The adapter specified in the boot list is not present or is not functioning.</p> <p>If AIX is being booted, and can be booted from another device, do so, then run online AIX diagnostics against the failing adapter. If AIX cannot be booted from another device, boot standalone AIX diagnostics from CD-ROM or a NIM server and run diagnostics against the device.</p> <p>If Linux is being booted, boot standalone AIX diagnostics from CD-ROM or a NIM server and run diagnostics against the device.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
AA060010	The FAT file system on the boot disk is configured in a way that might cause a boot failure. Increase the FAT partition size by 10% to keep the number of data clusters fewer than approximately 4080.	
AA060011	The firmware did not find an operating system image and it was unable to detect at least one hard disk in the boot list. Firmware is now retrying the entries in the boot list. This error might occur before the initialization of an enclosure that contains the boot disk completes or when the boot disk belongs to another partition. If this problem persists, do the following: 1. Verify that the boot disk belongs to the partition that is being booted 2. Verify that the boot list in the SMS menus is correct	
AA130013	Bootable media is missing from a USB CD-ROM Put a bootable CD in the USB CD-ROM and retry the boot operation.	
AA130014	The media in a USB CD-ROM has been changed. 1. Retry the operation. 2. Check for server firmware updates; apply if available, then retry the operation.	
AA170210	Setenv/\$setenv parameter error: the name contains a null character.	FWFLASH
AA170211	Setenv/\$setenv parameter error: the value contains a null character.	FWFLASH
AA190001	The server firmware function to get and set the time-of-day clock reported an error 1. Use the operating system utility to set the system clock. 2. If the problem persists, check for server firmware updates and apply them, if available.	
AA260001	The system is waiting for someone to enter the machine type, model, and serial number. At the system prompt, type the machine type, model, and serial number of the system.	

(B000) Network reference codes

This SRC indicates a general network error.

Find the unit reference code in the following table.

Table 1. (B000) Network reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0100	Ethernet network failure Do the following: 1. Reseat your Ethernet card. 2. Check your Ethernet cable connections. 3. If the previous actions do not resolve the problem, contact your next level of support.	

B000

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0500	Ethernet network failure Do the following: 1. Reseat your Ethernet card. 2. Check your Ethernet cable connections. 3. If the previous actions do not resolve the problem, contact your next level of support.	
0600	Ethernet network failure Do the following: 1. Reseat your Ethernet card. 2. Check your Ethernet cable connections. 3. If the previous actions do not resolve the problem, contact your next level of support.	
1100	Token-ring network failure Do the following: 1. Reseat your token ring card. 2. Check your token ring cable connections. 3. If the previous actions do not resolve the problem, contact your next level of support.	
1600	Token-ring network failure Do the following: 1. Reseat your token ring card. 2. Check your token ring cable connections. 3. If the previous actions do not resolve the problem, contact your next level of support.	

(B001) Reference codes

This SRC might indicate a communications error.

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (B001) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2651	First call failed, retrying call; no CFI from modem The remote answer timer expired without the server detecting either the rise of DSR or a Call Failure Indication from the modem. The system is trying the call again, up to the value of the Dial retry parameter of the controller description.	UJE34 UJA34 FI00704 FI00701
2652	First call failed, retrying call; CFI AB from modem After dialing the server detected a Call Failure INDICATION AB from the modem. The system is trying the call again, up to the face value of the Dial retry parameter of the controller description. CFI AB is sent from the modem if the modems abort timer expires after answer tone was detected and before the modem is ready for data transfer.	UJ0E3 FI00704 UJA35

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2653	First call failed, retrying call; CFI DE from modem After dialing the server detected a Call Failure Indication DE from the modem. The system is trying the call again, up to the value of the Dial retry parameter of the controller description. CFI DE is sent from the modem if the modem failed to detect dial tone when expected or detected dial tone when another tone was expected. This can occur if the telephone cable is not plugged into the back of the modem.	UJ0E3 FI00704
2654	First call failed, retrying call; CFI ET from modem After dialing the server detected a Call Failure Indication ET from the modem. The system is trying the call again, up to the value of the Dial retry parameter of the controller description. CFI ET is sent from the modem if the modem detects a busy signal (engaged tone).	UJ0E3 UJA35
2656	First call failed, retrying call; CFI NT from modem After dialing the server detected a Call Failure Indication NT from the modem. The system is trying the call again, up to the value of the Dial retry parameter of the controller description. CFI NT is sent from the modem if the modems abort timer expires without detecting answer tone, is not detecting ring back, and had detected the expected dial tones. This situation could result from a person answering the telephone.	UJ0E3 FI00705 UJA35
2657	First call failed, retrying call; CFI RT from modem After dialing the server detected a Call Failure Indication RT from the modem. The system is trying the call again, up to the value of the Dial retry parameter of the controller description. CFI RT is sent from the modem if the modem does not detect the remote answer when the abort timer expired, the modem is still detecting ring back. This response is also sent if the modem ends a call because the ring counter reached its limit.	UJ0E3 UJA35
2660	Call failed, retrying call; Non-standard CFI from modem After dialing the server detected a Call Failure Indication from the modem that was not recognized. The system is trying the call again, up to the value of the Dial retry parameter of the controller description.	UJ0E3 FI00704
4594	Wrong telephone number specified in system configuration	UJA35 AJDG301
5000	Wrong command sent by Licensed Internal Code	AJDG301
5001	Procedure error in Licensed Internal Code	AJDG301
5002	Procedure error in Licensed Internal Code Procedure error in machine instructions	UJE34 AJDG301
5003	Procedure error in Licensed Internal Code	AJDG301 UJA34
5004	Incorrect command value sent by Licensed Internal Code	AJDG301
5005 to 5006	Procedure error in Licensed Internal Code	AJDG301
5007	Procedure error in Licensed Internal Code	AJDG301 UJA34
5009	Incorrect command value sent by Licensed Internal Code	AJDG301
500A	Procedure error in Licensed Internal Code	AJDG301
500B to 500C	Incorrect command value sent by Licensed Internal Code	AJDG301
500D	Incorrect command value sent by Licensed Internal Code	AJDG301 UJA34

B001

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
500E to 500F, 5010 to 5014	Incorrect command value sent by Licensed Internal Code	AJDG301
5015	Procedure error in Licensed Internal Code	AJDG301
5016 to 5019	Incorrect command value sent by Licensed Internal Code	AJDG301
501A	Licensed Internal Code did not request enough storage	AJDG301
501C	Command value error in I/O card Licensed Internal Code	FI00730
501D	Clear-to-send not active to allow data to be sent	FI00704 AJDG301 FI00701 FI00730 FI00719
501E to 501F	Command value error in I/O card Licensed Internal Code	FI00730
5022	Procedure error in Licensed Internal Code	AJDG301
5023	Procedure error in Licensed Internal Code	AJDG301 UJA34
5024 to 5025	Licensed Internal Code sent commands in wrong order	AJDG301 FI00730
50E0	Wrong or no external communications cable installed	UJA34 UJA34 UJA34 FI00701 FI00719
50E1	Communications line already in use	AJDG301 UJA34 UJA34
50E3 to 50E4	Wrong command value sent by OS/400 licensed program	AJDG301 UJA34
50E5	Incorrect command value sent by Licensed Internal Code	AJDG301 UJA34 UJA34 UJA34
50E6 to 50E7	Incorrect command value sent by Licensed Internal Code	AJDG301 UJA34 FI00730 UJA34
50E8	Wrong command value sent by OS/400 licensed program	AJDG301
50E9, 50EB	Incorrect command value sent by Licensed Internal Code	AJDG301 UJA34
50EC to 50ED	Wrong command value sent by OS/400 licensed program	AJDG301
50EE	Incorrect command value sent by Licensed Internal Code	AJDG301
50EF	Wrong number of dial digits in telephone number	UJA35 FI00703 FI00719 FI00702
50F0	No telephone number provided for the call command	AJDG301 UJA35
50F1	Communications line not installed	AJDG301 FI00719 UJA34

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
50F2	Automatic call unit cable not installed	FI00702 UJA34 FI00719
50F4	Clear-to-send signal dropped warning; information only	UJE34
50F5	Network uncontrolled-not-ready warning; information only	UJE34
50F6	Network controlled-not-ready warning; information only	UJE34
50F7	Data-set-ready changed to not active; for information only	UJE34
50F8	Adapter card transmit error	FI00719
5202	I/O card Licensed Internal Code ended abnormally	FI00730
5203	I/O card Licensed Internal Code resource not available	FI00730
5205	I/O card Licensed Internal Code response not correct	FI00730 AJDG301
5206 to 5207	Communications controller storage not available	UJA33
5208	I/O card Licensed Internal Code ended abnormally	FI00730
5209	I/O card Licensed Internal Code response not correct	FI00730
52E0	Incorrect command used by I/O card Licensed Internal Code	FI00730
52E1	Wrong procedure used in I/O card Licensed Internal Code	FI00730
52E2	I/O card Licensed Internal Code resource not available	UJA33 UJA34 UJA34
52E3	Command response error in I/O card Licensed Internal Code	FI00730
52E4	Wrong command value sent by OS/400 licensed program	AJDG301 UJA34
52E5	Incorrect command value sent by Licensed Internal Code	AJDG301
52E6	Data-line-occupied already active from automatic call unit	FI00703 UJA32 FI00719 FI00702
52E7	X.21 network not in the ready or receive-data state	FI00704 FI00701 FI00719
52E8 to 52E9	Command value error in I/O card Licensed Internal Code	FI00730
52EA	I/O card Licensed Internal Code error	FI00730
5301	Adapter card receive error	FI00719
5302	Adapter card transmit error	FI00719
5401	Communications adapter card interrupt not expected	FI00719 FI00718
54E1	Communications line not operational	FI00719 UJA34
5600	Clear-to-send off; error limit per 256 reached	FI00704 AJDG301 UJA34 FI00701 FI00719

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5601	Data-set-ready state changed; error limit per 256 reached	FI00704 UJA34 FI00701 FI00719
5602	Clear-to-send state changed; error limit per 256 reached	FI00704 UJA34 FI00701 FI00719
5603	Carrier-detect state changed; error limit per 256 reached	FI00704 FI00705 UJA34 FI00701 FI00719 UJ0E3
5604	Call attempted; error limit per 256 reached	FI00705 UJ0E3 FI00703 UJA34
5605	Call completed with error; error limit per 256 reached	UJ0E3 UJA34
5606	Data-line-occupied error; error limit per 256 reached	FI00703 FI00719 UJA34 FI00702
5607	Abandon-call-retry error; error limit per 256 reached	UJA35 FI00703 UJA34 FI00705 UJ0E3
5608	Present-next-digit error; error limit per 256 reached	FI00703 UJA34 FI00719 FI00702
5609	Distant-station-connected error; error limit per 256 reached	UJA34 FI00705 FI00700 FI00703 FI00719 UJA34 FI00702
560B	Data-set-ready error; error limit per 256 reached	UJA34 FI00705 FI00700 FI00701 FI00719 FI00704 UJA34
560C	Wrong number length; error limit per 256 reached	UJA35 FI00703 UJA34

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5651	Call failed, no Call Failure Indication from modem The remote answer timer expired without the server detecting either the rise of DSR or a Call Failure Indication from the modem. The system has reached the number of tries in the dial retry parameter in the controller description.	UJE34 UJA34 FI00704 FI00701
56E2	Data-set-ready already active on modem interface	FI00704 FI00701 FI00719
56E3	Automatic call unit data-line-occupied error	FI00703 FI00702 FI00719 UJ0E3
56E4	Automatic call unit has present-next-digit error	FI00703 FI00719 FI00702
56E5	Automatic call unit distant-station-connected error	FI00700 UJA35 FI00703 UJA34 UJA34 FI00701 FI00719 UJ0E3
56E6	Data-set-ready error on modem interface	FI00700 UJ0E3 UJA34 FI00701 FI00719
56E7	Automatic call unit command error	FI00701 FI00704 FI00719
56E8	Clear-to-send not active on modem interface	UJ0E3 UJA34 FI00704 FI00701 FI00719
56E9	Clear-to-send signal failed to drop on modem interface	FI00704 FI00701 FI00719
56EA	Clear-to-send signal dropped on modem interface	UJ0E3 UJA34 FI00704 FI00701 FI00719
56EB	Carrier-detect dropped on modem interface	FI00701 FI00704 UJ0E3 FI00719
56EC	Data-set-ready turn-off time-out on modem interface	FI00704 UJA34 FI00701 FI00719

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
56ED	Data-set-ready turn-on time-out on modem interface	FI00701 FI00704 FI00719 AJDG301
56EE	Automatic call unit abandon-call-retry error	FI00700 UJA35 FI00703 FI00719 FI00702
56EF	Automatic call unit telephone-number-length error	UJA35 FI00703 FI00701
56F0	Automatic call unit power turned off	FI00703 FI00702 FI00719
56F1	Data-set-ready dropped on modem interface	FI00701 FI00704 FI00719 UJ0E3
5701	SDLC frame reject type W transmitted	FI00700 UJA34
5702	SDLC frame reject type X transmitted	FI00700 FI00730 UJA34
5703	SDLC frame reject type Y transmitted	UJA34 FI00700
5704	SDLC frame reject type Z transmitted	FI00730 FI00700 UJA34
5705	SDLC frame reject type W received from remote equipment	FI00730 FI00700
5706	SDLC frame reject type X received from remote equipment	FI00730 FI00700
5707	SDLC frame reject type Y received from remote equipment	FI00730 FI00700 UJA34
5708	SDLC frame reject type Z received from remote equipment	FI00730 FI00700 UJA34
5709	Not valid control field received from remote equipment	UJA34 UJA34 FI00700
570A	Incorrect information field received from remote equipment	FI00700
570B	Incorrect frame reject received from remote equipment	FI00700
570C	Wrong sequence number received from remote equipment	FI00700 UJA34
570D	Wrong response received from remote equipment	FI00700
570E	Wrong command received from remote equipment	FI00700
570F	No data in information frame received from remote equipment	FI00700

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5710	Nonproductive receive time-out while receiving from remote	UJA34 UJ0E3 FI00704 FI00705 FI00700 FI00701 FI00719
5711	Remote equipment sent more data frames than allowed	UJA34 FI00700
5712	No data received from remote equipment; time-out	AJDG301 UJA34 UJA34 UJ0E3 FI00704 FI00705 FI00700 UJA35 FI00701 UJA34 FI00719 UJA34
5713	Disconnected mode response received from remote system	FI00700 FI00730
5714	Disconnected mode response received from remote system	FI00700
5715	Remote equipment did not respond causing an idle-time-out	UJ0E3 FI00701 UJA34 FI00704 UJA34 FI00705 FI00700 UJA34 UJA34 FI00719
5716	Communications controller storage not available	FI00730
5717	No response from modem during modem test	FI00704 FI00701 FI00719 AJDG301
5718	Retry limit reached for sending frames to remote equipment	UJ0E3 FI00704 FI00705 FI00700 UJA34 FI00701 FI00719
5719	Retry limit reached for sending frames to remote equipment	FI00700

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
571A	Retry limit reached for sending frames to remote equipment	AJDG301 UJA34 UJ0E3 FI00704 FI00705 FI00700 UJA34 UJA34 FI00701 UJA34 FI00719 UJA35 UJA34 UJA34
5720	Retry limit reached for sending poll frame to remote	FI00700 UJA34
5721	Could not send frame to remote equipment; local problem	FI00701 UJA34 FI00704 FI00730 FI00719
5722	Wrong command value sent by OS/400 licensed program	AJDG301 UJA35
5723	Wrong response received from remote equipment	FI00700 UJA34
5724	Retry limit reached for sending frames to remote equipment	UJ0E3 FI00704 FI00705 FI00700 UJA34 FI00701 FI00719
5750 to 5751	Incorrect command value sent by Licensed Internal Code	AJDG301 FI00730
5752	Wrong response received from remote equipment	FI00700 UJA35
5753	Wrong response received from remote equipment	FI00700 FI00730
5754	Wrong response received from remote equipment	FI00700 UJA35 UJA34
5755 to 5756	Wrong response received from remote equipment	FI00700 UJA35
5757	Wrong response received from remote equipment	FI00700 FI00730
5758	Wrong response received from remote equipment	FI00700 FI00730 UJA34 AJDG301
5759	Wrong response received from remote equipment	UJA34 FI00700

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5760	Nonproductive receive time-out while receiving from remote	FI00700 UJ0E3 UJA34
5762	No data received from remote equipment; time-out	FI00700 UJ0E3 UJA34
5764	Adapter card transmit error	FI00701 FI00704 FI00719 FI00730
5768	Communications line clear	UJ0E3 FI00700 UJA34
576A	Wrong response received from remote equipment	FI00700 UJ0E3 UJA34
5770	Incorrect command value sent by Licensed Internal Code	AJDG301 FI00730
5776, 5778, 577A	Wrong response received from remote equipment	FI00700 FI00730
577C	Wrong response received from remote equipment	UJA34 FI00700 UJA35 FI00730 AJDG301
577E	Wrong command received from remote equipment	FI00700 FI00730
5780	Maximum retries reached on XID polls after answer	UJ0E3 UJA34 FI00719 FI00704 UJA34 UJA34
5782	Connection cleared after answer after XID exchange	UJE39 UJA33 UJA34 UJA35 UJA34 UJE34
5784	Call cleared after answer; session reset Call cleared after answer, reset while link disconnected.	UJE34 UJE39
57E0	Frame-check-sequence error; error limit per 256 reached	UJ0E3 FI00705 FI00704 UJA34
57E1	Overrun error; error limit per 256 reached	UJA34 UJA34 UJA34

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
57E2	Short frame error; error limit per 256 reached	UJ0E3 FI00700 FI00705 FI00704 UJA34
57E3	Frame-cancel-received error; error limit per 256 reached	UJ0E3 FI00700 FI00705 FI00704 UJA34
57E4	Idle link detected error; error limit per 256 reached	FI00700 UJ0E3 FI00705 FI00704 UJA34 UJA34 UJA34
57F0	Send sequence counter error; error limit per 256 reached	UJ0E3 FI00700 FI00705 FI00704 UJA34
57F1	Receive sequence counter error; error limit per 256 reached	FI00704 FI00700 UJ0E3 FI00705 UJA34
57F2	Response time-out error; error limit per 256 reached	FI00700 UJ0E3 FI00704 UJA34 UJA34 FI00705 UJA34
5800	Control-not-ready time-out; error limit per 256 reached	FI00704 AJDG301 UJA34
5801	Uncontrolled-not-ready time-out; error limit per 256 reached	AJDG301 FI00704 UJA34 FI00701
5802	State-not-known time-out error; error limit per 256 reached	AJDG301 FI00704 UJA34 FI00701 FI00719
5803	Control-not-ready state changed; error limit per 256 reached	FI00704 UJA34
5804	Not-ready state changed; error limit per 256 reached	FI00704 UJA34 FI00701

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5805	State-not-known changed; error limit per 256 reached	FI00704 UJA34 FI00701 FI00719
5806	State interrupt overrun error; error limit per 256 reached	FI00730 UJA34 FI00704 UJ0E3
5807	Not valid data; error limit per 256 reached	FI00704 UJA34
5808	Data-communications-equipment error; limit per 256 reached	FI00704 FI00705 UJA34 UJ0E3
5809	Control-not-ready in data mode; error limit per 256 reached	UJA34 FI00705 FI00700 UJ0E3 FI00704
580A	Incoming call received during outgoing call; limit reached	UJA34 UJE34
580B	Missed incoming call; error limit per 256 reached	UJA33 UJA34 FI00730
580C	Clear was missed; error limit per 256 reached	UJA33 UJA34 FI00730
580D	Parity error; error limit per 256 reached	FI00704 FI00701 UJA34 FI00719
580E	Receive overrun; error limit per 256 reached	FI00719 UJA34
580F	Temporary storage overrun; error limit per 256 reached	FI00730 UJA34
5810	Network type 1 time-out; error limit per 256 reached	AJDG301 FI00704 UJA34 FI00701 FI00719
5811	Network type 2 time-out; error limit per 256 reached	UJA34 AJDG301 FI00704 FI00705 UJ0E3
5812	Network type 3A time-out; error limit per 256 reached	UJA34 AJDG301 FI00704 FI00705 UJ0E3

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5813	Network type 3B time-out; error limit per 256 reached	UJA34 AJDG301 FI00704 FI00705 UJ0E3
5814	Network type 4A time-out; error limit per 256 reached	FI00704 AJDG301 UJA34
5815	Network type 4B time-out; error limit per 256 reached	UJA34 AJDG301 FI00704 FI00705 UJ0E3
5816	Network type 5 time-out; error limit per 256 reached	FI00704 AJDG301 UJA34
5817	Network type 6 time-out; error limit per 256 reached	FI00704 AJDG301 UJA34
5818	Network type 7 time-out; error limit per 256 reached	FI00704 AJDG301 UJA34
5819	Network type 20 time-out; error limit per 256 reached	AJDG301 FI00704 UJA34 FI00701 FI00719
581A	Network type 21 time-out; error limit per 256 reached	FI00704 AJDG301 UJA34
581B	Call-progress-signal type 00; error limit per 256 reached	UJA34 UJE34
581C	Call-progress-signal type 01; error limit per 256 reached	UJA34 UJE34
581D	Call-progress-signal type 02; error limit per 256 reached	UJA34 UJE34
581E	Call-progress-signal type 03; error limit per 256 reached	UJA34 UJE34
581F	Call-progress-signal type 04; error limit per 256 reached	UJA34 UJE34
5820	Call-progress-signal type 05; error limit per 256 reached	UJA34 UJE34
5821	Call-progress-signal type 20; error limit per 256 reached	UJA34 UJA35 FI00700 FI00705 UJ0E3
5822	Call-progress-signal type 21; error limit per 256 reached	FI00700 UJA34 UJE34 UJA35

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5823	Call-progress-signal type 22; error limit per 256 reached	UJA35 FI00704 UJA34
5824	Call-progress-signal type 23; error limit per 256 reached	FI00701 FI00704 FI00719 UJA34
5825	Call-progress-signal type 41; error limit per 256 reached	UJA35 UJE34 UJA34 UJ0E3
5826	Call-progress-signal type 42; error limit per 256 reached	UJA35 UJA34
5827	Call-progress-signal type 43; error limit per 256 reached	UJA34 UJA35 FI00704 FI00705 UJ0E3
5828	Call-progress-signal type 44; error limit per 256 reached	FI00705 FI00700 UJA35 UJA34
5829	Call-progress-signal type 45; error limit per 256 reached	UJA35 FI00700 UJA34 FI00705
582A	Call-progress-signal type 46; error limit per 256 reached	UJA35 FI00700 FI00705 UJA34
582B	Call-progress-signal type 47; error limit per 256 reached	FI00705 UJA34 UJA35
582C	Call-progress-signal type 48; error limit per 256 reached	UJE34 UJA35 UJA34 FI00704
582D	Call-progress-signal type 49; error limit per 256 reached	UJ0E3 UJA34
582E	Call-progress-signal type 51; error limit per 256 reached	FI00704 FI00705 UJ0E3 UJA34
582F	Call-progress-signal type 52; error limit per 256 reached	UJE34 UJA35 UJA34 FI00705
5830	Call-progress-signal type 61; error limit per 256 reached	UJ0E3 UJA34
5831	Call-progress-signal type 71; error limit per 256 reached	UJ0E3 UJA34

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5832	Call-progress-signal type 72; error limit per 256 reached	UJ0E3 UJA35 UJA34
5833	Call-progress-signal; error limit per 256 reached	AJDG301 UJA34
5836	Call cleared by network equipment	UJ0E3 FI00705 FI00704 FI00700
5837	Network-controlled not-ready state; information only	UJ0E3
5838	I/O card Licensed Internal Code processed wrong command	FI00730 AJDG301
5839	Incorrect command value sent by Licensed Internal Code	AJDG301
583A	Wrong command value sent by OS/400 licensed program	UJA34
583B	Wrong command value sent by OS/400 licensed program	FI00730
583C	Incorrect command value sent by Licensed Internal Code	AJDG301
583D to 583E	I/O card Licensed Internal Code processed wrong command	FI00730
583F	Incorrect command value sent by Licensed Internal Code	AJDG301
5840 to 5841	I/O card Licensed Internal Code used incorrect procedure	UJA33 FI00730
5842	I/O card Licensed Internal Code used incorrect procedure	FI00730
5843	Communications overrun while receiving network data	UJA33 FI00730 FI00719 FI00704
5844	Communications adapter error while receiving network data	FI00719
5845	Communications adapter transmit error on selection sequence	FI00719
5846	Communications adapter received network data incorrectly	UJ0E3 FI00701 FI00719
5847	Communications controller storage not available	FI00730 UJ0E3
5849	Wrong information provided by network	UJ0E3
584A	Automatic answer time-out	UJA34 UJ0E3 FI00704 FI00705
584B	Call error; incoming call received during outgoing call	UJE34 UJA34 FI00730 FI00719 FI00704
5851	Network did not leave controlled-not-ready condition	UJ0E3 FI00704 AJDG301
5852	Network did not leave uncontrolled-not-ready condition	UJ0E3 FI00704 FI00701 AJDG301

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5853	Network remained in unknown condition	AJDG301 FI00704 FI00701 FI00719
5854	Network time-out type 5 occurred	FI00704 AJDG301
5855	Network time-out type 6 occurred	FI00704 AJDG301
5870	Network time-out type 1 occurred	AJDG301 FI00704 FI00701 FI00719
5871	Network time-out type 2 occurred	UJ0E3 FI00704 FI00705 AJDG301
5872	Network time-out type 3A occurred	UJ0E3 FI00704 FI00705 AJDG301
5873	Network time-out type 3B occurred	UJ0E3 FI00704 FI00705 UJA35 AJDG301
5874	Network time-out type 4A occurred	FI00704 AJDG301
5875	Network time-out type 4B occurred	UJ0E3 FI00704 AJDG301
5876	Network time-out type 7 occurred	FI00704 AJDG301
5877	Network time-out type 20 occurred	AJDG301 FI00704 FI00701 FI00719
5878	Network time-out type 21 occurred	FI00704 AJDG301
587A	Call cleared by network equipment	FI00704 UJ0E3 FI00705
587B	Clock signal missing from external communications interface	FI00701 FI00719 FI00704
5890	Network call-progress-signal type 20	FI00700 FI00705 UJ0E3 UJA35
5891	Network call-progress-signal type 21	FI00700 UJA35 UJE34

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5892	Network call-progress-signal type 22	FI00700 FI00704 UJA35
5893	Network call-progress-signal type 23	FI00704 FI00701 FI00719
5894	Network call-progress-signal type 41	FI00700 UJE34 UJ0E3 UJA35
5895	Network call-progress-signal type 42	FI00700 UJA35
5896	Network call-progress-signal type 43	UJ0E3 FI00700 FI00704 FI00705 UJA35
5897	Network call-progress-signal type 44	FI00700 FI00705 UJA35
5898	Network call-progress-signal type 45	FI00700 FI00705 UJA35
5899	Network call-progress-signal type 46	FI00700 FI00705 UJA35
589A	Network call-progress-signal type 47	FI00700 UJ0E3 UJA35 FI00705
589B	Network call-progress-signal type 48	UJE34 FI00700 FI00704 UJA35
589C	Network call-progress-signal type 49	UJ0E3
589D	Network call-progress-signal type 51	FI00704 UJ0E3 FI00705
589E	Network call-progress-signal type 52	UJE34 FI00700 FI00705 UJA35
589F	Network call-progress-signal type 61	UJ0E3
58A0	Network call-progress-signal type 71	UJ0E3
58A1	Network call-progress-signal type 72	UJ0E3
58E0	Communications line not operational	FI00719 UJA34
58E1	Communications connection not made	UJA33 FI00730

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
58E2	Communications line not operational	FI00704 FI00701 FI00719 FI00730
58E4	<p>Port or DCE error has recovered; port now available</p> <p>This reference code does not identify an error but is used to report that an X.21 port used in a short-hold mode, multiple port sharing configuration that was temporarily not operating is now available. One of the following reference codes may have been reported previously:</p> <ul style="list-style-type: none"> • 5870 • 5871 • 5872 • 5873 • 5893 • 5851 • 5852 • 5853 • 587B <p>If any of the listed reference codes are occurring frequently and are causing performance problems, use the reported reference code to isolate the problem.</p>	UJE34
8011	<p>IOP activation failed.</p> <p>MDMCNTRYID parameter in Network Attributes is not set. Use the CHGNETA command to set MDMCNTRYID value.</p>	UJE34
8013	<p>IOP activation failed.</p> <p>The MDMCNTRYID parameter in Network Attributes is not valid for this adapter. Use the CHGNETA command to change MDMCNTRYID.</p>	UJE34
8020	System log entry only, no service action required	
FFFF	User suspected communications problem.	USER

Table 2. Failing items details

Failing Item	Description	Document Description
AJDC301	Licensed Internal Code	See the service documentation for instructions.
UJ0E3	Communications network equipment	
UJA32	Line or automatic call unit already in use	Communications Configuration
UJA33	Too many communications lines in use	Communications Configuration
UJA34	CNNPOLLTMR value in CRTLNSDLC command	Communications Configuration
UJA34	CNNPOLLRTY value in CRTLNSDLC command	Communications Configuration
UJA34	CTSTMR value in CRTLNSDLC command	Communications Configuration
UJA34	AUTOANS, AUTODIAL, SWTCNN, CNN values in CRTLNSDLC command	Communications Configuration
UJA34	DIALRTY value in CRTCTL____ command	Communications Configuration

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Failing Item	Description	Document Description
UJA34	DSRDRPTMR value in the CRTLINS DLC command	Communications Configuration
UJA34	LINESPEED value in CRTLINS DLC command	Communications Configuration
UJA34	NRZI value in CRTLINS DLC command	Communications Configuration
UJA34	INACTTMR value in CRTLINS DLC command	Communications Configuration
UJA34	CNNTMR value in CRTLINS DLC command	Communications Configuration
UJA34	SWTCNN, AUTOANS values in CRTLINS DLC command	Communications Configuration
UJA34	MAXFRAME value in CRTLINS DLC command	Communications Configuration
UJA34	SNBU, MODEMRATE, DUPLEX values in CRTLINS DLC command	Communications Configuration
UJA34	MODULUS value in CRTLINS DLC command	Communications Configuration
UJA34	FRAMERTY value in CRTLINS DLC command	Communications Configuration
UJA34	MAXCTL value in CRTLINS DLC command	Communications Configuration
UJA34	ACRSRCNAME value in CRTLINS DLC command	Communications Configuration
UJA34	EXCHID value in CRTCTL____ command	Communications Configuration
UJA34	SHMNODE value in CRTLINS DLC command	Communications Configuration
UJA34	NPRDRCVTMR value in CRTLINS DLC command	Communications Configuration
UJA34	Operator reset local controller (vary on/off) but not remote	Communications Configuration
UJA34	INTERFACE value in CRTLINS DLC command	Communications Configuration
UJA34	SHMNODE value in CRTLINS DLC command	Communications Configuration
UJA34	MAXOUT value in CRTLINS DLC command	Communications Configuration
UJA34	THRESHOLD value in CRTLINS DLC command	Communications Configuration
UJA34	RMTANSTMR value in the SDLC command	Communications Configuration
UJA34	R SRCNAME value in the CRTLINS DLC command	Communications Configuration
UJA34	IDL TMR value in CRTLINS DLC command	Communications Configuration
UJA34	ROLE value in CRTLINS DLC command	Communications Configuration
UJA35	CNNNBR value in the CRTCTL____ command	Communications Configuration
UJA35	RMTNETID value in CRTCTLAPPC command	Communications Configuration
UJA35	STNADR value in CRTCTL____ command	Communications Configuration
UJE34	Configuration or OS/400 licensed program	Communications Configuration
UJE34	Excessive usage on X.21 network	Communications Configuration
UJE34	X.21 network service problem	Communications Configuration
UJE34	No failure found	Communications Configuration
UJE39	Configuration problem in remote equipment	Communications Configuration
USER	User suspected communications problem.	See the service documentation for instructions.

(B002) Reference codes

This SRC might indicate a communications error.

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (B002) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2321	Procedure error in Licensed Internal Code	UJE34
2322	Data-set-ready error on modem interface	UJE34
2340	Data-set-ready changed to not active; for information only	FI00704 UJB35 UJ0E3 FI00701
2651	First call failed, retrying call; no CFI from modem The remote answer timer expired without the system detecting either the rise of DSR or a call failure indication from the modem. The system tries the call again, up to the number of tries specified in the dial retry parameter of the controller description.	UJE34 UJB35 FI00704 FI00701
2652	First call failed, retrying call; CFI AB from modem After dialing, the system detected a call failure indication AB from the modem. The system tries the call again, up to the number of tries specified in the dial retry parameter of the controller description. CFI AB is sent from the modem if the modem's timer expires after answer tone was detected and before the modem is ready for data transfer.	UJ0E3 FI00704 UJB36
2653	First call failed, retrying call; CFI DE from modem After dialing, the system detected a call failure indication DE from the modem. The system tries the call again, up to the number of tries specified in the dial retry parameter of the controller description. CFI DE is sent from the modem if the modem failed to detect a dial tone when expected or detected a dial tone when another tone was expected. This can occur if the telephone cable is not plugged into the back of the modem.	UJ0E3 FI00704
2654	First call failed, retrying call; CFI ET from modem After dialing, the system detected a call failure indication ET from the modem. The system tries the call again, up to the number of tries specified in the dial retry parameter of the controller description. CFI ET is sent from the modem if the modem detects a busy signal (engaged tone).	UJ0E3 UJB36
2656	First call failed, retrying call; CFI NT from modem After dialing, the system detected a call failure indication NT from the modem. The system tries the call again, up to the number of tries specified in the dial retry parameter of the controller description. CFI NT is sent from the modem if the modem's timer expires without detecting an answer tone or a ring back, and had detected the expected dial tones. This situation could result from a person answering the telephone.	UJ0E3 FI00705 UJB36
2657	First call failed, retrying call; CFI RT from modem After dialing, the system detected a call failure indication RT from the modem. The system tries the call again, up to the number of tries specified in the dial retry parameter of the controller description. CFI RT is sent from the modem if the modem does not detect the remote answer when the timer expired or the modem is still detecting ring back. This response is also sent if the modem ends a call because the ring counter reached its limit.	UJ0E3 UJB36

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2660	Call failed, retrying call; Non-standard CFI from modem After dialing, the system detected a call failure indication from the modem that was not recognized. The system tries the call again, up to the number of tries specified in the dial retry parameter of the controller description.	UJ0E3 FI00704
3200	Clear-to-send state changed; error limit per 256 reached	FI00704 UJB35 FI00701 FI00719
3201	Data-set-ready state changed; error limit per 256 reached	FI00704 UJB35 FI00701 FI00719
3202	Clear-to-send state changed; error limit per 256 reached	FI00704 UJB35 FI00701 FI00719
3203	Carrier-detect state changed; error limit per 256 reached	FI00704 UJB35 FI00701 FI00719
3204	Call not completed; error limit per 256 reached	UJB36 UJ0E3 FI00705 FI00703
3205	Call completed with error; error limit per 256 reached	UJB35
3206	Data-line-occupied error; error limit per 256 reached	FI00703 UJB35 UJ0E3 FI00702
3207	Abandon-call-retry error; error limit per 256 reached	FI00703 UJB35 UJ0E3 FI00702 UJB36
3208	Present-next-digit error; error limit per 256 reached	FI00702 FI00703 UJB35 FI00719
3209	Distant-station-connected error; error limit per 256 reached	FI00703 UJB35 UJ0E3 FI00702 UJB36
320B	Data-set-ready state changed; error limit per 256 reached	FI00704 UJB35 UJ0E3 FI00701
320C	Incorrect number dialed; error limit per 256 reached	UJB36 UJB35
4200	Wrong data block received; error limit per 256 reached	UJ0E3 UJB35 FI00719

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
4201	Wrong data block received; error limit per 256 reached	UJ0E3
4202	Temporary text delay block sent; error limit per 256 reached	UJB35 UJB37
4203	Wait-acknowledge block sent; error limit per 256 reached	UJB35 UJB37
4204	Incorrect data block sent; error limit per 256 reached	FI00730 FI00719 UJB35
4205	Communications IOP cannot receive; limit reached	FI00730 FI00719 UJB35
4206	Receive-time-out error; error limit per 256 reached	FI00730 AJDG301
4207	Continuous synchronization on line; error limit reached	UJ0E3
4208	No synchronization received; error limit per 256 reached	UJ0E3
4209	Synchronous time-out; error limit per 256 reached	UJ0E3 FI00719 UJB35
4220	Communications line already in use	AJDG301 FI00719 UJB35
4240	Adapter not installed	AJDG301 FI00719 UJB35
4340	V.25 adapter not installed	AJDG301 UJB35 FI00719 FI00702
4376	Automatic call unit already in use	AJDG301 UJB35 UJC38
4502	Incorrect command value sent by Licensed Internal Code	AJDG301 FI00730
4503	Incorrect command value sent by Licensed Internal Code	AJDG301
4504	Incorrect parts installed for BSC communications	AJDG301 UJB35 UJB35 UJB35
4505 to 4506	Incorrect command value sent by Licensed Internal Code	AJDG301 UJB35 FI00730 UJB35
4508 to 4509	Incorrect command value sent by Licensed Internal Code	AJDG301 FI00730
450A	Incorrect command value sent by Licensed Internal Code	AJDG301 FI00730 UJB35
450B	Incorrect command value sent by Licensed Internal Code	AJDG301 FI00730

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
450E	Call type not permitted	AJDG301 FI00730 UJB35
4590	Wrong telephone number specified in system configuration	UJB36 FI00703 UJ0E3 FI00702
4592	No number specified in controller description	UJB36
4594	Wrong telephone number specified in system configuration	UJB36 FI00730 AJDG301
5410	Data-set-ready error on modem interface	FI00704 UJB35 FI00702 FI00719
5472	Data-line-occupied initially 'on' error	FI00703 UJC38 FI00719 FI00702
5474	Automatic call unit has data-line-occupied error	FI00702 FI00703 FI00719 UJ0E3
5476	Automatic call unit has present-next-digit error	FI00703 FI00719 FI00702
5501 to 5503	Incorrect command value sent by Licensed Internal Code	AJDG301 FI00730
5504	Incorrect command value sent by Licensed Internal Code	AJDG301 UJB35
5505	Incorrect command value in I/O card LIC	FI00730
5520 to 5521, 5549	Incorrect command value sent by Licensed Internal Code	AJDG301 FI00730
5590	Too many dial digits in call setup	UJB36
5630	Automatic call unit has distant-station-connected error	FI00700 UJ0E3 UJB35 FI00701 FI00719
5632	Automatic call unit has data-set-ready error	FI00700 UJB36 FI00703 UJB36 UJB35 FI00701 FI00719 UJ0E3

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5651	Call failed, no Call Failure Indication from modem The remote answer timer expired without the system detecting either the rise of DSR or a call failure indication from the modem. The system has reached the number of tries in the dial retry parameter in the controller description.	UJE34 UJB35 FI00704 FI00701
5684	Automatic call unit has call-clear error	FI00704 FI00701 AJDG301 FI00719
5886	Automatic call unit switched link time-out; no answer	FI00703 FI00719 UJ0E3 FI00702
5A18	Clear-to-send signal failed to drop on modem interface	FI00704 FI00701 FI00719
5A1C	Clear-to-send signal dropped on modem interface	UJ0E3 UJB35 FI00704 FI00701 FI00719
5A20	Clear-to-send not active on modem interface	UJ0E3 UJB35 FI00704 FI00701 FI00719
5A24	Carrier-detect dropped on modem interface	FI00701 FI00704 UJ0E3 FI00719
5A54	Data-set-ready did not drop during time-out	FI00704 UJB35 FI00701 FI00719
5A58	Data-set-ready did not come up during time-out	FI00701 FI00704 FI00719 AJDG301
5C68	Too many user connections attempted	AJDG301
5E00	Wrong or no external communications cable installed	UJB35 UJB35 UJB35 FI00701 FI00719
5E01	Call error; incoming call received during outgoing call	UJC38 FI00704 FI00701 FI00719
6210	Communications controller storage not available	UJB35 FI00730
6212	Storage deallocation error	FI00730
6214	Storage allocation error	FI00730

B002

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6288	Port not operational	FI00719 AJDG301 UJB35
6320	Automatic call unit has abandon-call attempt	FI00700 UJB36 FI00703 FI00719 FI00702
6322	Abandon call retry error; incorrect number length	FI00703 UJB36
6870	Automatic call unit power turned off	FI00703 FI00702 FI00719
6890	Data-set-ready dropped on modem interface	UJ0E3 FI00701 FI00704 FI00719
6C05	Error in I/O card Licensed Internal Code	FI00730 AJDG301
6C0A	Hardware detected failure	FI00719 FI00718
7210	Communications controller storage not available	UJB35 FI00730
7212	Communications program error	FI00730 AJDG301
7C00, 7C02	Communications program error	FI00730
7C03	Resource or storage not available	UJB37 FI00730
7C04	Communications program error	FI00730
7C05	Incorrect command value in I/O card LIC	FI00730
7C09	Communications program error	FI00730
FFFF	User suspected communications problem.	USER

Table 2. Failing items details

Failing Item	Description	Document Description
AJDG301	Licensed Internal Code	See the service documentation for instructions.
UJ0E3	Communications network equipment	
UJB35	CTSTMR value in CRTLINBSC command	Communications Configuration
UJB35	AUTOANS, AUTODIAL, DIALCMD, SWTCNN, CNN in CRTLINBSC	Communications Configuration
UJB35	DSRDRPTMR value in the CRTLINBSC COMMAND	Communications Configuration
UJB35	INTERFACE value in CRTLINBSC command	Communications Configuration
UJB35	CNN value in CRTLINBSC command	Communications Configuration
UJB35	STXLRC value in CRTLINBSC command	Communications Configuration
UJB35	RSRCNAME value in CRTLINBSC command	Communications Configuration

Failing Item	Description	Document Description
UJB35	RMTANSTMR value in the CRTLINBSC command	Communications Configuration
UJB35	ASPT ACRSRCNAME value in CRTLINBSC command	Communications Configuration
UJB35	MAXBUFFER value in CRTLINBSC command	Communications Configuration
UJB35	THRS THRESHOLD value in CRTLINBSC command	Communications Configuration
UJB35	SNBU, MODEMRATE values in CRTLINBSC command	Communications Configuration
UJB36	DIALRTY value in CRTCTLBSC command	Communications Configuration
UJB36	CNNNBR value in CRTCTL_____ command	Communications Configuration
UJB37	System processor workload heavy	Communications Configuration
UJB37	System processor workload heavy	Communications Configuration
UJC38	Line or automatic call unit already in use	
UJE34	CONF Configuration or OS/400 licensed program	Communications Configuration
UJE34	No failure found	Communications Configuration
USER	User suspected communications problem.	

(B003) Asynchronous communications reference codes

The Asynchronous Communications detected a failure.

1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.
2. Find the unit reference code in the following table.

For more on the Failing Item column entries, see Table 2. Asynchronous Communications Failing Items Details, which follows the reference code table below.

Table 1. (B003) Asynchronous communications reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2321	Procedure error in Licensed Internal Code	UJE34
2322	Data-set-ready error on modem interface	UJE34
2340	Data-set-ready changed to not active; for information only	FI00704 CNGTHRS FI00701 FI00719
3200	Clear-to-send state changed; error limit per 256 reached	FI00704 CNGTHRS FI00701 FI00719
3201	Data-set-ready state changed; error limit per 256 reached	FI00704 CNGTHRS FI00701 FI00719

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3202	Clear-to-send state changed; error limit per 256 reached	FI00704 CNGTHRS FI00701 FI00719
3203	Carrier-detect state changed; error limit per 256 reached	FI00704 CNGTHRS FI00701 FI00719
3204	Call not completed; error limit per 256 reached	UJC36 GNGLINK FI00705 FI00703
3205	Call completed with error; error limit per 256 reached	CNGTHRS
3206	Data-line-occupied error; error limit per 256 reached	FI00703 CNGTHRS GNGLINK FI00702
3207	Abandon-call-retry error; error limit per 256 reached	FI00703 CNGTHRS GNGLINK FI00702 UJC36
3208	Present-next-digit error; error limit per 256 reached	FI00703 CNGTHRS FI00702 FI00719
3209	Distant-station-connected error; error limit per 256 reached	FI00703 CNGTHRS GNGLINK FI00702 UJC36
320B	Data-set-ready state changed; error limit per 256 reached	FI00704 CNGTHRS FI00701 FI00719
320C	Incorrect number dialed; error limit per 256 reached	UJC36 CNGTHRS
4200	Break character received; error limit per 256 reached	GNGLINK CNGTHRS
4202	Received storage overrun; error limit per 256 reached	FI00730 CNGTHRS
4203	Incorrect stop bit; error limit per 256 reached	GNGLINK CNGLBPS CNGTHRS
4204	Receive-time-out error; error limit per 256 reached	CNGTHRS GNGLINK
4205	Number of characters discarded; error limit per 256 reached	GNGLINK CNGLBPS UJB37 CNGTHRS
4206	Procedure error in Licensed Internal Code	FI00730 AJDG301

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
4209	Wrong data received; error limit per 256 reached	GONGLINK CNGTHRS
4220	Port already in use	AJDG301 FI00719 CNGSLPT
4240	Port not installed	AJDG301 FI00719 CNGSLPT
4340	Automatic call unit port is not installed	AJDG301 UJC35 FI00719 FI00702
4376	Automatic call unit already in use	AJDG301 GNGRESC UJC35
4502	Wrong configuration value sent by Licensed Internal Code	AJDG301 FI00730
4503	Wrong configuration value sent by Licensed Internal Code	AJDG301 FI00730 UJC35
4504	Wrong configuration value sent by Licensed Internal Code	AJDG301 UJC35 CNGSLPT
4505 to 4506	Wrong configuration value sent by Licensed Internal Code	AJDG301 UJC35 FI00730 CNGSLPT
4507	Wrong configuration value sent by Licensed Internal Code	AJDG301 FI00730 UJC35
4508	Wrong configuration value sent by Licensed Internal Code	AJDG301 FI00730
4509	Wrong configuration value sent by Licensed Internal Code	AJDG301 UJC35 FI00730
450A	Wrong configuration value sent by Licensed Internal Code	AJDG301 FI00730 UJC35
450B to 450C	Wrong configuration value sent by Licensed Internal Code	AJDG301 FI00730
450D	Wrong configuration value sent by Licensed Internal Code	UJC35 CNGBCHR FI00730 AJDG301
450E	Wrong configuration value sent by Licensed Internal Code	AJDG301 FI00730 CNGMCFL
4549	Wrong configuration value sent by Licensed Internal Code	AJDG301 FI00730

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
4590	Wrong number specified in controller description	UJC36 FI00703 FI00701 UJC35 FI00719
4592	No number specified in controller description	AJDG301 UJC36
4594	Wrong number specified in controller description	UJC36 FI00730 AJDG301 UJC35
5410	Switched line already in use	FI00704 UJC35 FI00701 FI00719
5472	Data-line-occupied error at time of starting	FI00703 GNGRESC FI00719 FI00702
5474	Automatic call unit line connection error	FI00702 FI00703 FI00719 GNGLINK
5476	Present-next-digit error	FI00702 FI00703 FI00719
5501	Wrong configuration value sent by Licensed Internal Code	AJDG301 FI00730
5502 to 5503, 5510	Wrong configuration value sent by Licensed Internal Code	AJDG301 UJC35 FI00730
5511 to 5512	Wrong configuration value sent by Licensed Internal Code	AJDG301 FI00730
5513	Wrong configuration value sent by Licensed Internal Code	AJDG301 UJC35 FI00730
5514	Wrong configuration value sent by Licensed Internal Code	AJDG301 FI00730
5515	Wrong configuration value sent by Licensed Internal Code	AJDG301 UJC35 FI00730
5549	Wrong configuration value sent by Licensed Internal Code	AJDG301 FI00730
5590	Wrong length for number dialed	AJDG301
5630	Automatic call unit distant-station-connected time out	FI00700 GNGLINK UJC35 FI00701 FI00719

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5632	Automatic call unit had data-set-ready time out	FI00700 UJC36 FI00703 CNGDRTY UJC35 FI00701 FI00719 GNGLINK
5684	Time-out on call-clear-request	FI00704 FI00701 AJDG301 FI00719
5886	Automatic call unit line connection error	FI00704 FI00719 FI00701
5A18	Clear-to-send signal failed to drop on modem interface	FI00704 FI00701 FI00719
5A1C	Clear-to-send signal dropped on modem interface	GNGLINK UJC35 FI00704 FI00701 FI00719
5A20	Clear-to-send not active on modem interface	GNGLINK UJC35 FI00704 FI00701 FI00719
5A24	Carrier-detect dropped on modem interface	FI00701 FI00704 GNGLINK FI00719
5A54	Time-out; data-set-ready did not drop	FI00704 UJC35 FI00701 FI00719
5A58	Time-out; data-set-ready not received	FI00701 FI00704 FI00719 AJDG301
5C68	Procedure error in Licensed Internal Code	AJDG301 FI00730
5E00	Wrong or no external communications cable installed	FI00701 UJC35 CNGSLPT FI00719
5E01	Call received during dialing procedure	GNGRESC FI00704 FI00701 FI00719
6210	Resource or storage not available	CNGMAXI FI00730

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6212, 6214	Communications controller error	FI00730 FI00718
6288	Port not operational	FI00719 AJDG301 CNGSLPT
6320	Abandon-call-retry	FI00700 UJC36 FI00703 FI00719 FI00702
6322	Abandon-call-retry; not all numbers dialed	UJC36 FI00703 FI00702 FI00719 FI00730
6870	Automatic call unit power turned off	FI00703 FI00702 FI00719
6890	Data-set-ready dropped on modem interface No action is required if Operations Console is attached.	GONGLINK FI00701 FI00704 FI00719
6C05	I/O card Licensed Internal Code error	FI00730 AJDG301
6C0A	Hardware detected failure	FI00719 FI00718
7200	Communications Configuration	CNGSLPT
7210	Resource or storage not available	CNGMAXI FI00730
7212	Procedure error in Licensed Internal Code	AJDG301 FI00730
7C00	Asynchronous server program ended abnormally	FI00730
7C02	Wrong command sent by Licensed Internal Code	FI00730
7C03	Resource or storage not available	UJB37 FI00730 UJC35 UJC35 UJC35 UJC35
7C04	Wrong internal routing information	FI00730
7C05, 7C09	Error in I/O card Licensed Internal Code	FI00730
8011	IOP activation failed. The MDMCNTRYID parameter in Network Attributes is not set. Use the CHGNETA command to set MDMCNTRYID value.	CNGCONF
8013	IOP activation failed. The MDMCNTRYID parameter in Network Attributes is not valid for this adapter. Use the CHGNETA command to change MDMCNTRYID.	CNGCONF
8020	System log entry only, no service action required	
FFFF	User suspected communications problem.	UNGUPPR

Table 2. Asynchronous communications failing items details

Failing Item	Description	Document Description
21F4325	Locally attached external cable	System Problem Analysis information
21F4333	Locally attached external cable	System Problem Analysis information
21F9345	Communications two-port adapter cable	Cable Attachment
24F8549	Multifunction I/O processor storage expansion	Repair and Parts; removal and installation procedures
AJDG301	Licensed Internal Code	Service Functions; APAR or LICTR
CNGBCHR	BITSCHAR value in CRTLINASC command	Communications Configuration
CNGCATL	THRESHOLD value in CRTLINASC command	Communications Configuration
CNGCCEL	THRESHOLD value in CRTLINASC command	Communications Configuration
CNGCONF	Configuration or OS/400 licensed program	Communications Configuration
CNGDRTY	DIALRTY value in CRTCTLASC command	Communications Configuration
CNGLBPS	LINESPEED, BITSCHAR, PARITY, STOPBITS values in CRTLINASC	Communications Configuration
CNGMAXI	MAXBUFFER value in CRTLINASC command	Communications Configuration
CNGMCFL	DUPLEX, CNN, MODEMRATE values in CRTLINASC command	Communications Configuration
CNGSLPT	RSRCNAME value in CRTLINASC command	Communications Configuration
CNGTHRS	THRESHOLD value in CRTLINASC command	Communications Configuration
GNGALDC	Any adapter card attached to this I/O processor card	
GNGIOAB	System unit or I/O card enclosure	
GNGLINK	External devices or network	
GNGLNKI	Line, modems, remote equipment	
GNGLNKM	Line, modems, remote equipment	
GNGLNKR	Remote computer and data communications equipment	
GNGLNKT	Remote computer and data communications equipment	
GNGOTHR	Another adapter card on the same IOP to IOA Bus	
GNGRESC	Line or automatic call unit already in use	
GNGTP	Communications line	
UJB37	System processor workload heavy	Communications Configuration
UJC35	ACRSRCNAME value in CRTLINASC command	Communications Configuration
UJC35	CTSTMR value in CRTLINASC command	Communications Configuration
UJC35	CALLNBR value in CRTLINASC command	Communications Configuration
UJC35	DSRDRPTMR value in the CRTLINASC command	Communications Configuration
UJC35	LINESPEED value in CRTLINASC command	Communications Configuration
UJC35	STOPBITS value in CRTLINASC command	Communications Configuration

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Failing Item	Description	Document Description
UJC35	DUPLEX, ECHO, FLOWCNTL value in CRTLINASC command	Communications Configuration
UJC35	AUTOANS, AUTODIAL, DIALCMD, SWTCNN, CNN in CRTLINASC	Communications Configuration
UJC35	PARITY value in CRTLINASC command	Communications Configuration
UJC35	CNN value in CRTLINASC command	Communications Configuration
UJC35	ECHO value in CRTLINASC command	Communications Configuration
UJC35	EORTBL value in CRTLINASC command	Communications Configuration
UJC35	FLOWCNTL value in CRTLINASC command	Communications Configuration
UJC35	RMTANSTMR value in CRTLINASC command	Communications Configuration
UJC36	CNNNBR value in CRTCTLASC command	Communications Configuration
UJE34	No failure found	Communications Configuration
UNGUPPR	User suspected communications problem.	

(B004) Reference codes

This SRC might indicate a communications error.

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (B004) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
7000	Licensed Internal Code sent an incorrect command	FI00751 FI00730
7002	Licensed Internal Code sent incorrect command values	FI00751 FI00730
7004	Licensed Internal Code sent commands in wrong order	FI00751 FI00730
7006, 7008	Licensed Internal Code sent incorrect command values	FI00751 FI00730
700C	Licensed Internal Code sent commands in wrong order	FI00751 FI00730
700F	Communications controller storage not available	FI00751 FI00730
7010	Licensed Internal Code sent commands in wrong order	FI00751 FI00730
7012	I/O card LIC followed incorrect procedure	FI00730
7014	Licensed Internal Code sent commands in wrong order	FI00751 FI00730
7018	Configuration exceeds allowed maximum for X.25 lines	UJJ39
701A, 701C	Wrong command value sent by OS/400 licensed program	AJDG301 FI00730
701E	Wrong command value sent by OS/400 licensed program	UJJ36 FI00730

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
7020	Licensed Internal Code sent incorrect command values	FI00751 FI00730
7024	No logical link available for packet network	UJE38 FI00751
7028	No outgoing or two-way logical link available	UJE38 FI00751
702C	Remote station not connected This reference code usually identifies a condition that is due to a timing problem that will be recovered.	UJJ37 FI00751
7030	Logical link already disconnected This reference code usually identifies a condition that is due to a timing problem that will be recovered.	UJJ37 FI00751
7048 to 704A, 704C	Licensed Internal Code sent incorrect command values	FI00751 FI00730
7050	Licensed Internal Code sent commands in wrong order	FI00751 FI00730
7054	Vertical Licensed Internal Code sent wrong password length	FI00751 FI00730
7056, 7058, 705C	Licensed Internal Code sent incorrect command values	FI00751 FI00730
7064	Vertical Licensed Internal Code sent wrong data length	FI00751 FI00730
707C	Licensed Internal Code sent incorrect command values	FI00751
7080	Licensed Internal Code sent an incorrect command	FI00751 FI00730
7084	Number of user requests more than maximum allowed	FI00751 FI00730
7090	I/O card LIC followed incorrect procedure	FI00751 FI00730
7092	Licensed Internal Code sent incorrect command values	UJJ38 FI00751 FI00730
7094	Licensed Internal Code sent incorrect command values	FI00751 FI00730
728C	Licensed Internal Code sent incorrect command values	FI00730
72F0	I/O card Licensed Internal Code ended abnormally	FI00730
72F2	I/O card Licensed Internal Code stopped because of error	FI00730
7718	Network procedure error detected by Licensed Internal Code	UJ0E2 UJJ36 UJJ36
7740	Remote system sent disconnect command	UJ0E2
7744	Remote system sent disconnect mode frame	UJ0E2
7768	Remote system did not respond to command sent	UJJ36 UJ0E2
776C	Remote system did not respond to command sent	UJ0E2 UJJ36 UJJ36

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
7770	Remote system did not respond to disconnect command	UJJ36 UJ0E2
7774	Remote system did not verify receiving data	UJJ36 UJ0E2
7788	Call rejected; wrong value from remote system	UJ0E6 UJJ37
7794	Expected password not provided by remote system	UJ0E2
7798	Remote system did not respond to test command	UJ0E2 UJJ36 UJJ36
77A0	Checksum error; error limit per 256 reached	UJ0E2 UJ0E9 FI00730
77A2	Bad data sent; error limit per 256 reached	UJ0E9
77A4	Bad data received; error limit per 256 reached	UJ0E9 UJJ35
77A6	Remote system not ready; error limit per 256 reached	UJ0E2 UJ0E9 UJJ35
7800	Licensed Internal Code sent an incorrect command	FI00751 FI00730
7802	Licensed Internal Code sent incorrect command values	FI00751 FI00730
7804	Licensed Internal Code sent commands in wrong order	FI00751 FI00730
7806, 7808	Licensed Internal Code sent incorrect command values	FI00751 FI00730
780C	Licensed Internal Code sent commands in wrong order	FI00751
7810	Licensed Internal Code sent commands in wrong order	FI00751 FI00730
7812	Procedure error in Licensed Internal Code	FI00751
7820	Too many logical channels defined	UJJ36 FI00730
7824	Outgoing and two-way logical channel not available This reference code usually identifies a condition that is due to a timing problem that will be recovered.	UJJ37 FI00751 FI00730
7828	Licensed Internal Code sent incorrect command values	FI00751 FI00730
782C	Licensed Internal Code sent commands in wrong order	FI00751 FI00730
7840, 7842, 7844	Licensed Internal Code sent incorrect command values	AJDG301 FI00730
7846	Communications controller storage not available	FI00751 FI00730
784C to 784E, 7850, 7854	Licensed Internal Code sent incorrect command values	FI00751 FI00730
7857	Licensed Internal Code sent incorrect command values	AJDG301 FI00730

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
7858	Licensed Internal Code sent incorrect command values	FI00751 FI00730
785A	Application sent not valid Q/M bit request sequence	UJ0E6 AJDG301 FI00730
785C	Licensed Internal Code sent incorrect command values	FI00751 FI00730
7860	Licensed Internal Code sent incorrect command values	UJJ38
7864	Licensed Internal Code sent incorrect command values	UJJ38 FI00751 FI00730
7868, 786C, 7870	Licensed Internal Code sent incorrect command values	FI00751 FI00730
7872	Wrong command value sent by OS/400 licensed program	AJDG301 FI00730
7874	Licensed Internal Code sent incorrect command values	FI00751 FI00730
7876	Wrong command value sent by OS/400 licensed program	AJDG301 FI00730
7878	Licensed Internal Code sent incorrect command values	FI00751 FI00730
787A	PLC/HDLC DTE/DCE mode configured not valid	FI00751 FI00730
787C	Licensed Internal Code sent incorrect command values	FI00751 FI00730
7884, 7888	Procedure error in Licensed Internal Code	FI00751 FI00730
788C	Licensed Internal Code sent commands in wrong order This reference code usually identifies a condition that is due to a timing problem that will be recovered.	UJJ37 FI00751 IOA FI00701
7894	Procedure error in Licensed Internal Code	FI00751 FI00730
7898	Licensed Internal Code sent commands in wrong order	FI00751 FI00730
78A0	No incoming call available to be processed This reference code usually identifies a condition that is due to a timing problem that will be recovered.	UJJ37 FI00730
78A4	I/O card Licensed Internal Code used incorrect value	FI00751 FI00730
78A6	Licensed Internal Code sent incorrect command values	FI00751 FI00730
7A90	I/O card Licensed Internal Code used incorrect value	FI00730
7AF0	I/O card Licensed Internal Code stopped because of error	FI00730
7AF4	I/O card Licensed Internal Code stopped because of error	FI00751 FI00730

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
7F14	Reset packet received	UJ0E9 UJ0E2 UJJ36 UJJ35 UJJ35
7F18	Clear packet received	UJ0E9 UJJ39 UJ0E2 UJJ36 FI00751
7F1C	X.25 restart packet received	UJ0E9 UJJ36
7F30	X.25 reset request packet sent	UJJ36 UJ0E9
7F34	X.25 clear request packet sent	UJJ36 UJ0E9
7F35	X.25 clear packet sent, packet size negotiation failed	UJ0E9 UJJ35
7F36	X.25 clear packet sent, window size negotiation failed	UJ0E9 UJJ35
7F38	X.25 restart request packet sent	UJ0E9 UJJ36
7F3A	X.25 restart negotiation failed	UJ0E9 UJJ39
7F3C	Time-out on restart packet	UJ0E9
7F40	Time-out on reset packet	UJ0E9 UJJ36
7F44	Time-out on call packet	UJ0E9 UJJ36
7F48	Time-out on clear packet	UJ0E9 UJJ36
7F80	Packet network used wrong procedures	UJ0E9 UJA36
7FA8	Received packet to help diagnosis	UJ0E9 FI00730
7FB0	Restart packet sent; error limit per 256 reached	UJ0E9
7FB1	Reset packet received; error limit per 256 reached	UJ0E9 UJ0E2 UJJ36 UJJ35 UJJ35

Table 2. Failing items details

Failing Item	Description	Document Description
AJDG301	Licensed Internal Code	See the service documentation for instructions.
IOA	Communications adapter card	Repair and Parts; removal and installation procedures
UJ0E2	Remote computer equipment	

Failing Item	Description	Document Description
UJ0E6	Application program controlling the station	
UJ0E6	Remote computer equipment	
UJ0E9	X.25 network or directly attached data terminal equipment	
UJA36	MODULUS value in CRTLINX25 command	Communications Configuration
UJE38	Too many logical links defined	Communications Configuration
UJJ35	THRESHOLD value in CRTLINX25 command	Communications Configuration
UJJ35	DFTPFSIZE value in CRTLINX25 command	Communications Configuration
UJJ35	DFTWDWSIZE value in CRTLINX25 command	Communications Configuration
UJJ36	X25CNNTMR value in CRTCTL_____command	Communications Configuration
UJJ36	USRGRPID value in CRTCTL_____command	Communications Configuration
UJJ36	LGLCHLE value in CRTLINX25 command	Communications Configuration
UJJ36	LINKPCL value in CRTCTL_____command	Communications Configuration
UJJ36	X25RSPTMR value in CRTCTL_____command	Communications Configuration
UJJ37	No error found	Communications Configuration
UJJ38	User specified X.25 parameters	Communications Configuration
UJJ39	Local X.25 system configuration	Communications Configuration

(B005) Reference codes

This SRC might indicate a communications error.

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (B005) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
A000 to A002	Input value error in I/O card Licensed Internal Code	PTFSRCH
A003	Procedure error in I/O card Licensed Internal Code	PTFSRCH
A004 to A00C	Input value error in I/O card Licensed Internal Code	PTFSRCH
A00E	Procedure error in Licensed Internal Code	PTFSRCH
A010 to A012	Input value error in I/O card Licensed Internal Code	PTFSRCH
A013	Wrong config data given to local area network controller	PTFSRCH
A014 to A01F, A020 to A024	Input value error in I/O card Licensed Internal Code	PTFSRCH
A025	Procedure error in I/O card Licensed Internal Code	PTFSRCH
A027	Input value error in I/O card Licensed Internal Code	PTFSRCH
A028	Input value error in I/O card Licensed Internal Code	
A029	Procedure error in I/O card Licensed Internal Code	PTFSRCH
A02A to A02D	Input value error in I/O card Licensed Internal Code	PTFSRCH
A02E	Wrong frame received from remote equipment	UJE39
A02F	Input value error in I/O card Licensed Internal Code	PTFSRCH
A201	Token-Ring controller storage not available	PTFSRCH

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
A202 to A204	Input value error in I/O card Licensed Internal Code	PTFSRCH
A205	I/O card Licensed Internal Code received unexpected response	
A206 to A20B	Input value error in I/O card Licensed Internal Code	PTFSRCH
A20C	Input value error in I/O card Licensed Internal Code	PTFSRCH PTFSRCH
A213 to A214	Severe error detected by I/O card Licensed Internal Code	PTFSRCH
A402	Token-ring adapter card error	IOA PTFSRCH
A403	Token-ring adapter card error	IOA
A404	Token-ring adapter card error	IOA UJE37
A405 to A406	Token-ring adapter card error	IOA
A408	Ring status information logged; not serious	UJE37
A409	Severe error detected by I/O card Licensed Internal Code	IOA
A40A	Token-ring adapter card error	IOA
A40B to A40C	Token-ring adapter card error	IOA
A410	Ring status information logged; not serious	UJE37 FI00712 FI00701
A411	Ring status information logged; not serious	IOA UJE33
A412	Ring status information logged; not serious	UJE33 IOA
A413	Ring status information logged; serious	FI00701 FI00712 IOA
A414	Ring status information logged; serious	IOA FI00701 FI00712
A415	Ring status information logged; serious	UJE31 UJE37
A416	Ring status information logged; not serious	UJE37
A417	Wrong frame received from remote equipment	UJE37
A420	Token-ring adapter card error	IOA FI00712 FI00701
A421	Token-ring adapter card error	UJE37 FI00712 FI00701
A422	Token-ring adapter card error	FI00701 FI00712 IOA
A423	Token-ring adapter card error	UJE37 IOA

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
A424	Token-ring adapter card error Change the line speed parameter for the Token-ring card. Note: The card must be varied off before changing the line speed.	UJE37 UJE35 FI00712 IOA
A425	Input value error in I/O card Licensed Internal Code	UJE35
A426	Input value error in I/O card Licensed Internal Code	UJE32 UJE37
A427	Input value error in I/O card Licensed Internal Code	UJE31 UJE37
A428	Token-ring adapter card error	PTFSRCH
A429	Procedure error in I/O card Licensed Internal Code	UJE37 FI00712 FI00701
A42A	User suspected communications problem. The adapter does not support Full DUPLEX or did not detect Full Duplex.	USER
A703	Ring status information logged; serious	IOA FI00701 UJE37
A710	Address not recognized; error limit per 256 reached	UJE37 IOA PTFSRCH
A711	Frame not copied; error limit per 256 reached	UJE39 IOA PTFSRCH
A712	Transmit strip; error limit per 256 reached	IOA UJE37
A713	Access priority not authorized; error limit per 256 reached	PTFSRCH
A714	Frames not authorized; error limit per 256 reached	PTFSRCH
A715	Temporary errors; error limit per 256 reached	IOA UJE37
A716	Transmit beacon; error limit per 256 reached	IOA UJE37
A718	Status queue overrun; error limit per 256 reached	UJE38
A719	Frames discarded; error limit per 256 reached	PTFSRCH UJE38
A721	Interrupts not expected; error limit per 256 reached	IOA
B000	I/O card Licensed Internal Code error	PTFSRCH
B003	Procedure error in Licensed Internal Code	PTFSRCH
B006	Token-ring error monitor has stopped	PTFSRCH
B009	Procedure error in Licensed Internal Code	PTFSRCH
B00A to B00B	Output value error in Licensed Internal Code	PTFSRCH
B0C0	Required I/O card Licensed Internal Code not active	FI00701 UJE35 UJE37 FI00712 IOA
B300	Procedure error in Licensed Internal Code	PTFSRCH

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B700	Wrong frame received from remote equipment All unit reference codes that start with a value of B7 and end with any value from 00 through FF have the same meaning as this unit reference code.	
C000	I/O card Licensed Internal Code error	PTFSRCH
C003	Configuration report server is deactivating	PTFSRCH
C005	Configuration report server is activating	PTFSRCH
C010, C0E6	Procedure error in Licensed Internal Code	PTFSRCH
C0E7 to C0E8	Output value error in Licensed Internal Code	PTFSRCH
C0E9 to C0EB	Configuration report server activation failed	PTFSRCH
C0EE	I/O card Licensed Internal Code error	PTFSRCH
C0EF	Procedure error in Licensed Internal Code	UJE34
C0F4	Required I/O card Licensed Internal Code not active	FI00701 UJE35 UJE37 FI00712 IOA
C300	Procedure error in Licensed Internal Code	PTFSRCH
C700 to C701	Procedure error in Licensed Internal Code	
C702 to C703	Wrong frame received from remote equipment	
FFFF	User suspected communications problem.	USER

Table 2. Failing items details

Failing Item	Description	Document Description
IOA	Token-ring network adapter	See the service documentation for instructions.
IOP	Communications I/O processor card	See the service documentation for instructions.
PTFSRCH	Licensed Internal Code	See the service documentation for instructions.
UJE31	Token-ring network manager program	See the service documentation for instructions.
UJE32	Token-ring network manager program	See the service documentation for instructions.
UJE33	Nearest active upstream node	See the service documentation for instructions.
UJE34	Local area network busy because of maximum usage	See the service documentation for instructions.
UJE35	Local Communications Adapter configuration	See the service documentation for instructions.
UJE35	ADPTADR value in CRTLINTRN command	See the service documentation for instructions.
UJE37	Token-ring network or remote station	See the service documentation for instructions.
UJE38	Token-ring controller card work load exceeded	See the service documentation for instructions.
UJE39	Remote computer equipment	See the service documentation for instructions.
USER	User suspected communications problem.	See the service documentation for instructions.

(B006) Common Licensed Internal Code reference codes

The common Licensed Internal Code detected a failure.

1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.
2. Find the unit reference code in the following table.

For more on the Failing Item column entries, see Table 2. Common Licensed Internal Code failing items details, which follows the reference code table below.

Table 1. (B006) Common Licensed Internal Code reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1201	I/O processor resource not available A deactivation failed to get a resource controlled by Licensed Internal Code.	AJ EQU00 AJ DG301
1202	Not valid condition in I/O Processor Licensed Internal Code An error in an activation or deactivation occurred.	AJ EQU00 AJ DG301 FI 00131
1203	I/O processor resource not available A resource needed to perform a requested function is not available in the Licensed Internal Code.	AJ EQU00 AJ DG301
1204	Not valid condition in I/O Processor Licensed Internal Code The Licensed Internal Code has recovered from a condition that was not expected.	AJ EQU00 AJ DG301 FI 00131
1205 to 1206	I/O processor card or Licensed Internal Code error A microprocessor exception occurred on the I/O processor.	AJ EQU00 FI 00131 FI 00132
1207	I/O processor resource not available The Licensed Internal Code could not allocate memory resources on the I/O processor card.	AJ EQU00 AJ DG301
1208	Not valid condition in I/O Processor Licensed Internal Code The Licensed Internal Code found a condition that should not have occurred.	AJ EQU00 AJ DG301 FI 00131
1209	I/O processor was not ready for interrupt that occurred	AJ EQU00 FI 00131
1210	I/O processor resource not available The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.	
1211	System bus error	FI 00131 ANYBUS AJ EQU00 AJ DG301
1212	A permanent I/O processor failure occurred	FI 00131 AJ EQU00
1213	System bus error	AJ DG301 AJ EQU00 FI 00131
1214 to 1215	I/O processor card or Licensed Internal Code error	FI 00131 AJ EQU00

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1301	I/O processor resource not available An activation or deactivation failed to get a resource controlled by Licensed Internal Code.	CDAWKLD AJDGP01 AJDG301
1302	Not valid condition in I/O Processor Licensed Internal Code An error in an activation or deactivation occurred.	AJDGP01 AJDG301 FI00131 FI00132
1303	I/O processor resource not available A resource needed to perform a requested function is not available in the Licensed Internal Code.	IOACNFG AJDGP01 AJDG301
1304	Not valid condition in I/O Processor Licensed Internal Code The Licensed Internal Code has recovered from an unexpected condition.	AJDGP01 AJDG301 FI00131 FI00132
1305 to 1306	I/O processor card or Licensed Internal Code error A microprocessor exception occurred on the I/O processor.	AJDGP01 FI00131 FI00132 BACKPLN
1307	I/O processor resource not available The Licensed Internal Code could not allocate memory resources on the I/O processor card.	AJDGP01 AJDG301 IOACNFG FI00132
1308	Not valid condition in I/O Processor Licensed Internal Code The Licensed Internal Code found a condition that should not have occurred.	AJDGP01 AJDG301 FI00131
1309	I/O processor was not ready for interrupt that occurred	AJDGP01 FI00131 FI00132 FI01117
1310	I/O processor resource not available The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.	
1311	System bus error	FI00131 ANYBUS AJDGP01 AJDG301
1312	A permanent I/O processor failure occurred	FI00131 AJDGP01
1313	System bus error	AJDG301 AJDGP01 FI00131
1316	I/O processor card or Licensed Internal Code error	AJDGP01 FI00132 FI00131

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1317	<p>I/O processor card error</p> <p>Display the Service Action Log entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:</p> <ol style="list-style-type: none"> 1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On. 2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources. 	SVCDOCS
1318	I/O processor card error	FI00131
1403	<p>Service processor Licensed Internal Code error</p> <p>A resource needed to perform a requested function is not available in the Licensed Internal Code.</p>	AJDGP01 SVCPROC
1404	<p>Service processor Licensed Internal Code error</p> <p>The Licensed Internal Code has recovered from an unexpected condition.</p>	AJDGP01 SVCPROC
1405	<p>Service processor Licensed Internal Code error</p> <p>A recoverable microcode condition occurred on the Service processor.</p>	AJDGP01 SVCPROC
1406	<p>Service processor Licensed Internal Code failed</p> <p>A microprocessor exception occurred on the Service processor.</p>	AJDGP01 SVCPROC AJDG301
1407	<p>Service processor Licensed Internal Code failed</p> <p>The Licensed Internal Code could not allocate resources on the Service processor.</p>	AJDGP01 SVCPROC AJDG301
1408	Service processor Licensed Internal Code failed	AJDGP01 AJDG301 SVCPROC
1409	<p>Service processor Licensed Internal Code failed</p> <p>The Service processor was not ready for an interrupt that occurred.</p>	AJDGP01 SVCPROC
1A01	<p>I/O processor resource not available</p> <p>A deactivation failed to get a resource controlled by Licensed Internal Code.</p>	CDAWKLD FI00130 AJDG301
1A02	<p>Not valid condition in I/O Processor Licensed Internal Code</p> <p>An error in an activation or deactivation occurred.</p>	FI00130 FI00131 FI00132
1A03	<p>I/O processor resource not available</p> <p>A resource that is needed to perform a requested function is not available in the Licensed Internal Code.</p>	FI00130 AJDG301 CDAWKLD
1A04	<p>Recovered from condition in Licensed Internal Code.</p> <p>The Licensed Internal Code has recovered from a condition that was not expected.</p>	FI00130 AJDG301 FI00131 FI00132
1A05 to 1A06	<p>I/O processor card or Licensed Internal Code error</p> <p>A microprocessor exception occurred on the I/O processor.</p>	FI00130 FI00131 FI00132

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1A07	I/O processor resource not available The Licensed Internal Code could not allocate memory resources on the I/O processor card.	CDAWKLD FI00132 FI00130 AJDG301
1A08	Not valid condition in I/O Processor Licensed Internal Code The Licensed Internal Code found a condition that should not have occurred.	FI00130 FI00131 FI00132
1A09	Threshold overflow The I/O processor card has detected a threshold of recoverable error conditions. The errors are either wrong interruptions or memory error corrections. If in communications, the line is still running. Note: If a large number of these errors occur during a short time, they may be caused by an electrically noisy environment, a defective communications I/O processor card or modem, or a communications I/O processor code problem.	FI00131 FI00132 FI01117 FI00130
1A10	Error reported to system The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.	

Table 2. Common Licensed Internal Code failing items details

Failing Item	Description	Document Description
	Test diskette (5-1/4 inch)	
	Test diskette (8 inch)	
08F5352	Token-ring network adapter	Repair and Parts; removal and installation procedures
08F5361	Communications input/output processor card	Repair and Parts; removal and installation procedures
1619726	Diskette unit	External Diskette Unit Service Manual
1619727	Diskette unit	External Diskette Unit Service Manual
16G8086	Attached adapter card(s)	Repair and Parts; removal and installation procedures
16G8428	Tape Unit	Repair and Parts; removal and installation procedures
16G8491	Tape drive	Repair and Parts; removal and installation procedures
16G8491	Tape Unit	Repair and Parts; removal and installation procedures
16G8500	Tape Unit	Repair and Parts; removal and installation procedures
16G8566	Tape drive	Repair and Parts; removal and installation procedures
16G8571	Tape drive	Repair and Parts; removal and installation procedures
17G1500	Internal signal cable	7208 Model 012 5.0GB External 8mm Tape Drive Service Guide

Failing Item	Description	Document Description
17G2504	Tape Unit	Repair and Parts; removal and installation procedures
17G2833	Tape I/O processor card	Repair and Parts; removal and installation procedures
17G2900	Magnetic storage device IOP card	Repair and Parts; removal and installation procedures
17G2919	Communications input/output processor card	Repair and Parts; removal and installation procedures
21F1688	Multiple function I/O processor card	Repair and Parts; removal and installation procedures
21F1689	Multiple function I/O processor card	Repair and Parts; removal and installation procedures
21F3986	Tape I/O processor card	Repair and Parts; removal and installation procedures
21F4383	Multiple function I/O processor card	Repair and Parts; removal and installation procedures
21F4863	Magnetic storage device IOP card	Repair and Parts; removal and installation procedures
21F4867	Communication adapter	Repair and Parts; removal and installation procedures
21F4868	Communication adapter	Repair and Parts; removal and installation procedures
21F4869	Token-ring network adapter	Repair and Parts; removal and installation procedures
21F4882	Diskette adapter card	Repair and Parts; removal and installation procedures
21F5620	Disk unit power regulator	Repair and Parts; removal and installation procedures
21F5620	Disk unit power regulator	Repair and Parts; removal and installation procedures
21F5620	Disk unit power regulator	Repair and Parts; removal and installation procedures
21F5620	Disk unit power regulator	Repair and Parts; removal and installation procedures
21F6085	Tape I/O processor card	Repair and Parts; removal and installation procedures
21F8566	Tape drive	Repair and Parts; removal and installation procedures
21F9208	ISDN adapter card	Repair and Parts; removal and installation procedures
21F9941	Communication adapter	Repair and Parts; removal and installation procedures
21F9987	Tape I/O processor card	Repair and Parts; removal and installation procedures
26F5028	Communication adapter	Repair and Parts; removal and installation procedures
45G9463	Disk drive and logic card	Repair and Parts; Recovery Procedures

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Failing Item	Description	Document Description
45G9470	Disk drive logic card	Repair and Parts; removal and installation procedures
45G9501	Disk drive and logic card	Repair and Parts; Recovery Procedures
45G9509	Disk drive logic card	Repair and Parts; removal and installation procedures
46F4115	Ethernet network adapter card	Repair and Parts; removal and installation procedures
46F4239	Token-ring network adapter	Repair and Parts; removal and installation procedures
46G0235	Diskette adapter card	Repair and Parts; removal and installation procedures
46G2227	Tape drive	7208 Model 012 5.0GB External 8mm Tape Drive Service Guide
46G2599	Terminating plug	7208 Model 012 5.0GB External 8mm Tape Drive Service Guide
46G3299	Magnetic storage device IOP card	Repair and Parts; removal and installation procedures
46G3379	Cryptographic Processor	Repair and Parts; removal and installation procedures
46G3738	Tape Unit	Repair and Parts; removal and installation procedures
46G3739	Tape Unit	Repair and Parts; removal and installation procedures
46G3740	Tape Unit	Repair and Parts; removal and installation procedures
46G3741	Tape Unit	Repair and Parts; removal and installation procedures
46G3742	Tape Unit	Repair and Parts; removal and installation procedures
46G3743	Tape Unit	Repair and Parts; removal and installation procedures
46G3844	Tape Unit	Repair and Parts; removal and installation procedures
46G3845	Tape Unit	Repair and Parts; removal and installation procedures
53F3861	Internal signal cable	7208 8mm Tape Drive Service Guide
55F5000	Disk drive logic card	Repair and Parts; removal and installation procedures
55F5000	Disk drive logic card	Repair and Parts; removal and installation procedures
55F5000	Disk drive logic card	Repair and Parts; removal and installation procedures
55F9806	Disk drive and logic card	Repair and Parts; Recovery Procedures
55F9839	Disk drive and logic card	Repair and Parts; Recovery Procedures
55F9839	Disk drive and logic card	Repair and Parts; Recovery Procedures
59X4714	Token-ring network adapter	Repair and Parts; removal and installation procedures

Failing Item	Description	Document Description
59X4723	Tape I/O processor card	Repair and Parts; removal and installation procedures
59X4732	Tape I/O processor card	Repair and Parts; removal and installation procedures
59X4749	Cryptographic Processor	Repair and Parts; removal and installation procedures
59X4819	Multiple function I/O processor card	Repair and Parts; removal and installation procedures
6475838	Tape Unit	Repair and Parts; removal and installation procedures
72X6385	Magnetic storage device IOP card	Repair and Parts; removal and installation procedures
72X6387	Communications input/output processor card	Repair and Parts; removal and installation procedures
72X6388	Communication adapter	Repair and Parts; removal and installation procedures
72X6390	Communication adapter	Repair and Parts; removal and installation procedures
72X6391	Token-ring network adapter	Repair and Parts; removal and installation procedures
73F9267	ASCII work station IOP card	Repair and Parts; removal and installation procedures
73F9383	Ethernet network adapter card	Repair and Parts; removal and installation procedures
73F9393	Tape Unit	Repair and Parts; removal and installation procedures
74F2201	Multiple function I/O processor card	Repair and Parts; removal and installation procedures
74F2232	Multiple function I/O processor card	Repair and Parts; removal and installation procedures
74G8535	Power Supply Assembly	External Diskette Unit Service Manual
74G8564	Power Supply Assembly	External Diskette Unit Service Manual
74G8566	Power Switch Assembly	External Diskette Unit Service Manual
74G8568	Internal Cable Assembly	External Diskette Unit Service Manual
74G8570	Internal Cable Assembly	External Diskette Unit Service Manual
74G8572	LED/Switch cable assembly	External Diskette Unit Service Manual
74G9978	Token-ring network adapter	Repair and Parts; removal and installation procedures
74G9989	Ethernet network adapter card	Repair and Parts; removal and installation procedures
75G5774	Attached adapter card(s)	Repair and Parts; removal and installation procedures
8191923	Tape Unit	Repair and Parts; removal and installation procedures
85F7112	Token-ring network adapter	Repair and Parts; removal and installation procedures

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Failing Item	Description	Document Description
85F7127	Ethernet network adapter card	Repair and Parts; removal and installation procedures
85F7223	Communications input/output processor card	Repair and Parts; removal and installation procedures
85F7295	Multiple function I/O processor card	Repair and Parts; removal and installation procedures
85F7305	Multiple function I/O processor card	Repair and Parts; removal and installation procedures
85F7646	Magnetic storage device IOP card	Repair and Parts; removal and installation procedures
85F8909	Tape I/O processor card	Repair and Parts; removal and installation procedures
85F8935	Magnetic storage device IOP card	Repair and Parts; removal and installation procedures
85F8977	Communications input/output processor card	Repair and Parts; removal and installation procedures
85F9089	Communications input/output processor card	Repair and Parts; removal and installation procedures
85F9099	Communications adapter card	Repair and Parts; removal and installation procedures
85F9885	Planar board	Repair and Parts; removal and installation procedures
86F0100	Disk drive and logic card	Repair and Parts; Recovery Procedures
86F0103	Disk drive and logic card	Repair and Parts; Recovery Procedures
86F0110	Disk drive logic card	Repair and Parts; removal and installation procedures
86F0112	Disk drive logic card	Repair and Parts; removal and installation procedures
86G7762	Disk unit tray	Repair and Parts; removal and installation procedures
86G7762	Disk unit tray	Repair and Parts; removal and installation procedures
86G7762	Disk unit tray	Repair and Parts; removal and installation procedures
86G7763	Disk unit tray	Repair and Parts; removal and installation procedures
86G7763	Disk unit tray	Repair and Parts; removal and installation procedures
86G7763	Disk unit tray	Repair and Parts; removal and installation procedures
86G7764	Disk unit tray	Repair and Parts; removal and installation procedures
86G7765	Disk unit tray	Repair and Parts; removal and installation procedures
86G7766	Disk unit tray	Repair and Parts; removal and installation procedures
86G7767	Disk unit tray	Repair and Parts; removal and installation procedures

Failing Item	Description	Document Description
86G7768	Disk unit tray	Repair and Parts; removal and installation procedures
86G7769	Disk unit tray	Repair and Parts; removal and installation procedures
86G7803	Tape Unit	Repair and Parts; removal and installation procedures
86G7804	Tape Unit	Repair and Parts; removal and installation procedures
86G8103	Diskette adapter card	Repair and Parts; removal and installation procedures
86G8117	Communications adapter card	Repair and Parts; removal and installation procedures
86G8121	Communications adapter card	Repair and Parts; removal and installation procedures
86G8125	Communications adapter card	Repair and Parts; removal and installation procedures
91F0721	Terminating plug	7208 8mm Tape Drive Service Guide
91F0914	Tape drive	7208 8mm Tape Drive Service Guide
93X0901	Disk drive logic card	Repair and Parts; removal and installation procedures
93X0911	Disk drive and logic card	Repair and Parts; Recovery Procedures
93X2701	Tape I/O processor card	Repair and Parts; removal and installation procedures
93X2730	Tape I/O processor card	Repair and Parts; removal and installation procedures
93X2777	Tape I/O processor card	Repair and Parts; removal and installation procedures
A0B00E0	Licensed Internal Code for the programmable tape unit	Service Functions; APAR or LICTR
AJDG301	Licensed Internal Code	Service Functions; APAR or LICTR
AJDG301	Licensed Internal Code	Service Functions; APAR or LICTR
AJDGP01	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
AJDGP01	Licensed Internal Code	Service Functions; APAR or LICTR
AJEDA00	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
AJEQU00	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
AJGJQ01	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
AJGW701	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
AJSLC01	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
ANYBUS	System bus	See the service documentation for instructions.
BACKPLN	Card enclosure or backplane	See the service documentation for instructions.
CDAWKLD	Too many communications lines in use	
DEVCABL	Internal signal cable	Magnetic tape subsystem service information
DEVFAN	Fan	Magnetic tape subsystem service information
DEVPOWR	Power supply	Magnetic tape subsystem service information
DISKDRV	Disk drive and logic card	See the service documentation for instructions.

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Failing Item	Description	Document Description
DISKTRY	Disk unit tray	See the service documentation for instructions.
DISKTRY	Disk unit tray	See the service documentation for instructions.
DISKTRY	Disk unit tray	See the service documentation for instructions.
DISKTRY	Disk unit tray	See the service documentation for instructions.
DISKTRY	Disk unit tray	See the service documentation for instructions.
DISKTRY	Disk unit tray	See the service documentation for instructions.
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DISKTRY	Disk unit tray	See the service documentation for instructions.
DISKTRY	Disk unit tray	See the service documentation for instructions.
DISKTRY	Disk unit tray	See the service documentation for instructions.
DISKTRY	Disk unit tray	See the service documentation for instructions.
DISKTRY	Disk unit tray	See the service documentation for instructions.
IOACNFG	Configuration error	See the service documentation for instructions.
SVCDOCS	Customer engineer directed to system problem analysis	See the service documentation for instructions.
SVCPROC	Service Processor Card	See the service documentation for instructions.
UDAWAIT	Wait to next IPL or perform TU-PIP4	

(B008) Reference codes

This SRC might indicate a communications error.

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (B008) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1200	Communications controller task ended abnormally; type 1	FI00730
1201	Communications controller task ended abnormally; type 2	FI00730
1202	Communications controller task ended abnormally; type 3	FI00730
1701	Disconnect mode frame received	UJ0E9
1702	Disconnect mode frame received during link activation	UJ0E3
1703	Disconnect mode frame received when transmitting information	UJ0E3 FI00730
1704	Frame reject type W received	FI00730 UJ0E3
1705	Frame reject type X received	FI00730 UJ0E3

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1706	Frame reject type Y received	FI00730 UJJ35
1707	Frame reject type Z received	FI00730 UJ0E3
1708	Frame reject type W sent	UJ0E3 FI00730
1709	Frame reject type X sent	UJ0E3 FI00730
170A	Frame reject type Y sent	UJJ35 UJ0E3
170B	Frame reject type Z sent	FI00730 UJ0E3
170C	Frame retry limit reached	UJ0E9 FI00701 FI00704 UJJ35
170D	Set-asynchronous-balance-mode frame received in data mode	FI00730 UJ0E3
170E	Wrong response received from remote equipment	UJJ35 UJ0E3 FI00700
2651	First call failed, retrying call; no CFI from modem	UJE34 UJJ35 FI00704 FI00701
2652	First call failed, retrying call; CFI AB from modem	UJ0E3 FI00704 UJA35
2653	First call failed, retrying call; CFI DE from modem	UJ0E3 FI00704
2654	First call failed, retrying call; CFI ET from modem	UJ0E3 UJA35
2656	First call failed, retrying call; CFI NT from modem	UJ0E3 FI00705 UJA35
2657	First call failed, retrying call; CFI RT from modem	UJ0E3 UJA35
2660	Call failed, retrying call; Non-standard CFI from modem	UJ0E3 FI00704
450A	Incorrect command value sent by Licensed Internal Code	AJDG301
4590	Wrong telephone number specified in system configuration	UJA35 FI00751
4592	No number specified in controller description	UJA35 FI00751
4594	Wrong telephone number specified in system configuration	UJA35 FI00751
5000	Wrong command received by communications controller	FI00751
5002	Wrong procedure followed by I/O card Licensed Internal Code	FI00751
5008	Procedure error in Licensed Internal Code	UJE34

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5009, 500B to 500C	Wrong command value received by communications IOP	FI00751
500D	Wrong data length received by communications controller	FI00751 UJJ35
500E to 500F	Wrong command value received by communications IOP	FI00751
5010	Wrong reset option received by communications controller	FI00751 FI00730
5011	Wrong command value received by communications IOP	FI00751 FI00730
5012	Wrong session ID received by communications controller	FI00751 FI00730
5014	Wrong command value received by communications IOP	FI00751 FI00730
5015	Communications line already in use	FI00751 FI00730
5016	Wrong command value received by communications IOP	FI00751 FI00730
5017	Wrong storage value received by communications controller	FI00751 FI00730
5018	Wrong trace type received by communications controller	FI00751 FI00730
5019	Wrong trace length received by communications controller	FI00751 FI00730
501A	Communications controller temporary storage area too small	FI00751
501B	Wrong ID length value sent by vertical LIC	FI00751
501C, 501E to 501F	Wrong command value received by communications IOP	FI00730
5022	Port already in use	FI00751 FI00730
5023	Procedure error in Licensed Internal Code	FI00751
5024	DTE/DCE role negotiation not valid for leased line	FI00751
50E0	Wrong or no external communications cable installed	UJJ35 UJJ35 UJJ35 FI00701 IOA
50E1	Port already in use	UJJ35 UJJ35 FI00730
50E3	Wrong command value sent by OS/400 licensed program	AJDG301 UJJ35
50E4	Wrong command value sent by OS/400 licensed program	AJDG301
50E5	Wrong adapter type value sent by Licensed Internal Code	FI00751 UJJ35 UJJ35 UJJ35
50E6	Wrong slot number value sent by Licensed Internal Code	FI00751 UJJ35
50E7	Incorrect command value sent by Licensed Internal Code	UJJ35 FI00751

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
50E8 to 50E9, 50EC to 50EE	Wrong command value sent by OS/400 licensed program	AJDG301
50F1	Communications adapter card not installed	AJDG301 UJJ35 IOA
50F2	V.25 adapter not installed	UJJ35 FI00702 IOA
50F5	Network uncontrolled-not-ready warning; information only	UJE34
50F6	Network controlled-not-ready warning; information only	UJE34
50F7	Data-set-ready changed to not active; for information only	UJE34
5203	I/O card Licensed Internal Code resource not available	FI00730
5206	Communications controller storage not available	FI00730
52E0	Incorrect command used by I/O card Licensed Internal Code	FI00730
52E1	Wrong procedure followed by I/O card Licensed Internal Code	FI00730
52E2	I/O card Licensed Internal Code resource not available	FI00730 UJJ35 UJJ35
52E3	Wrong response sent by I/O card Licensed Internal Code	FI00730
52E4	Wrong command value sent by OS/400 licensed program	AJDG301
52E5	Wrong command value received by communications IOP	FI00730
52E7	X.21 network not in the ready or receive-data state	FI00704 IOA FI00701
52E8	Error when releasing communications controller storage	FI00730
52E9	Error when assigning communications controller storage	FI00730
52EA	I/O card Licensed Internal Code error	FI00730
5301	Adapter card receive error	IOA
5302	Adapter card transmit error	IOA
5401	Communications IOP interrupt not expected	IOA
5410	Data-set-ready error on modem interface	FI00704 FI00702 IOA
5472	Data-line-occupied initially 'on' error	FI00702 FI00703 UJ0E3 IOA
5474	Automatic call unit has data-line-occupied error	FI00702 FI00703 UJ0E3 IOA
5476	Automatic call unit has present-next-digit error	FI00703 FI00702 IOA
54E1	Port not operational	IOA UJJ35
5600	Clear-to-send off; error limit per 256 reached	FI00704

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5601	Data-set-ready state changed; error limit per 256 reached	FI00704
5602	Clear-to-send state changed; error limit per 256 reached	FI00704
5603	Carrier-detect state changed; error limit per 256 reached	FI00701 FI00704 FI00705 UJ0E3
560B	Data-set-ready error; error limit per 256 reached	FI00701 FI00704 UJ0E3 FI00705
5630	Automatic call unit has distant-station-connected error	FI00700 UJ0E3 UJJ35 FI00701 IOA
5632	Automatic call unit has data-set-ready error	FI00700 UJA35 UJJ35 UJJ35 FI00703 FI00701 IOA UJ0E3
5651	Call failed, no Call Failure Indication from modem	UJE34 UJJ35 FI00704 FI00701
56E8	Clear-to-send not active on modem interface	UJ0E3 FI00704 UJJ35 FI00701 IOA
56E9	Clear-to-send signal failed to drop on modem interface	FI00704 IOA FI00701 AJDG301
56EA	Clear-to-send signal dropped on modem interface	UJ0E3 FI00704 UJJ35 IOA FI00701
56EB	Carrier-detect dropped on modem interface	FI00701 FI00704 FI00705 UJ0E3 IOA
56EC	Data-set-ready signal turn-off time-out	FI00704 UJJ35 FI00701 IOA

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
56ED	Data-set-ready signal turn-on time-out	FI00704 IOA FI00701 AJDG301
56F1	Data-set-ready dropped on modem interface	FI00704 FI00705 UJ0E3 FI00701 IOA
5718	SABM response or UA command received	UJJ35 UJ0E3
5719	Protocol mismatch during link initialization	UJA35 FI00700 UJ0E3
5721	Could not send frame to remote equipment; local problem	FI00704 AJDG301 FI00701 IOA
57E0	Frame check error; error limit per 256 reached	UJ0E3 FI00705 FI00704
57E1	Overrun error; error limit per 256 reached	FI00751 UJJ35 UJJ35
57E2	Short frame error; error limit per 256 reached	FI00700 FI00751 FI00705 FI00704 UJ0E3
57E3	Abnormal end received; error limit per 256 reached	FI00751 FI00700 FI00705 FI00704 UJ0E3
57E4	Underrun threshold error; limit per 256 reached	IOA
57E5	Long frame; error limit per 256 reached	UJJ35 FI00751 FI00700
57F0	Send sequence counter error; error limit per 256 reached	FI00751 FI00701 FI00704 UJ0E3
57F1	Receive sequence counter error; error limit per 256 reached	FI00751 FI00700
57F2	Response time-out error; error limit per 256 reached	FI00700 UJ0E3 FI00751 FI00704 UJJ35 FI00705 AJDG301

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5886	Automatic call unit switched link time-out; no answer	FI00703 IOA FI00702 UJ0E3
5E01	Call error; incoming call received during outgoing call	UJ0E3
6320	Automatic call unit has abandon-call attempt	FI00700 UJA35 FI00703 IOA FI00702
6322	Abandon call retry error; incorrect number length	UJA35 FI00703
6870	Automatic call unit power turned off	FI00703 FI00702 IOA
8011	IOP activation failed. The MDMCNTRYID parameter in Network Attributes is not set. Use the CHGNETA command to set MDMCNTRYID.	UJE34
8013	IOP activation failed. The MDMCNTRYID parameter in Network Attributes is not valid for this adapter. Use the CHGNETA command to change the MDMCNTRYID value.	UJE34
8020	User suspected communications problem.	
D230	ISDN channel hardware not operational	74F1624 FI00730
DA00	The I/O card LIC detected an internal error	FI00730
DA01	The I/O card LIC detected an internal error	FI00730 IOA
FFFF	User suspected communications problem.	USER

Table 2. Failing items details

Failing Item	Description	Document Description
74F1624	ISDN channel hardware	Repair and Parts; removal and installation procedures
AJDG301	Licensed Internal Code	See the service documentation for instructions.
IOA	Communications adapter card	Repair and Parts; removal and installation procedures
IOP	Communications I/O processor card	Repair and Parts; removal and installation procedures
UJ0E3	Communications network equipment	
UJ0E9	Communications network equipment	
UJA35	CNNNBR value in CRTLINX25__command	Communications Configuration
UJE34	Configuration or OS/400 licensed program	Communications Configuration
UJE34	No failure found	Communications Configuration
UJJ35	MAXPKTSIZE in CRTLINX25 command	Communications Configuration

Failing Item	Description	Document Description
UJJ35	ACRSRCNAME value in CRTLINX25 command	Communications Configuration
UJJ35	FRAMERTY value in CRTLINX25 command	Communications Configuration
UJJ35	X25DCE value in CRTLINX25 command	Communications Configuration
UJJ35	DSRDRPTMR value in the CRTLINX25 command	Communications Configuration
UJJ35	INTERFACE value in CRTLINX25 command	Communications Configuration
UJJ35	DFTWDWSIZE value in CRTLINX25 command	Communications Configuration
UJJ35	RMTANSTMR value in the CRTLINX25 command	Communications Configuration
UJJ35	IDLTM value in CRTLINX25 command	Communications Configuration
UJJ35	RSRCNAME value in CRTLINX25 command	Communications Configuration
UJJ35	DIALRTY value in CRTCTL___ command	Communications Configuration
UJJ35	CTSTMR value in CRTLINX25 command	Communications Configuration
USER	User suspected communications problem.	

(B009) Reference codes

This SRC might indicate a communications error.

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (B009) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
A000	Input value error in I/O card Licensed Internal Code	FI00730
A001	Input value error in I/O card Licensed Internal Code	FI00730 AJDG301
A002	Input value error in I/O card Licensed Internal Code	FI00730
A003	Procedure error in I/O card Licensed Internal Code	FI00730
A009 to A00A	Input value error in I/O card Licensed Internal Code	AJDG301
A013	Wrong configuration data given to Ethernet controller	AJDG301
A01B to A01D	Input value error in I/O card Licensed Internal Code	AJDG301
A01F	Input value error in I/O card Licensed Internal Code	FI00730 AJDG301
A020	Input value error in I/O card Licensed Internal Code	FI00730
A022 to A024	Input value error in I/O card Licensed Internal Code	AJDG301
A027	Input value error in I/O card Licensed Internal Code	FI00730
A028	Input value error in I/O card Licensed Internal Code	FI00730 AJDG301
A02A	Input value error in I/O card Licensed Internal Code	FI00730
A02B to A02D	Input value error in I/O card Licensed Internal Code	AJDG301
A201	Ethernet controller storage not available	FI00730
A203 to A204	Input value error in I/O card Licensed Internal Code	AJDG301
A205	Licensed Internal Code received not correct response	FI00730

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
A206, A208 to A20B	Input value error in I/O card Licensed Internal Code	AJDG301
A20C	Input value error in I/O card Licensed Internal Code	FI00730 AJDG301
A213 to A214	Serious error detected by I/O card Licensed Internal Code	FI00730
A404	Ethernet adapter card error	IOA UJE40
A40B	Ethernet adapter card error	IOA
A42A	User suspected communications problem. Full DUPLEX is not supported on this media type.	USER
A42B	Configuration of DUPLEX parameter not supported by network.	UJE35 UJE35 UJE40
A6C0	Ethernet adapter card error	UJE39
A6C1	Input value error in I/O card Licensed Internal Code	AJDG301
A6C2, A6C5	Ethernet adapter card error	IOA
A6D1	Ethernet adapter card error	FI00720 FI00722
A6D2	Ethernet adapter card error	IOA
A6D3	Ethernet adapter card error Verify that the signal quality error switch in the transceiver that the Ethernet is attached to is set to active.	FI00720 FI00722 IOA
A6D4	Procedure error in I/O card Licensed Internal Code	AJDG301
A6D5 to A6D8	Wrong configuration data given to Ethernet controller	AJDG301
A6D9	Ethernet adapter card error	IOA FI00722 FI00720
A6E1	Ethernet adapter card error	FI00730
A6E2	Ethernet adapter card error	IOA
A6E3	Ethernet transceiver error	UJE40 FI00722 UJE35 UJE35 IOA
A6E6	Ethernet transceiver error	IOA
A6E7 to A6E8	Ethernet adapter card error	IOA
A6E9	Ethernet adapter card error	UJE40 UJE35 UJE35
A6F1	User suspected communications problem. There are two cables attached to the adapter and only one is allowed. Remove one cable and vary off and then vary back on the resource.	FI00722
A6F2	Configured line speed not supported by network.	UJE35
A6F3	Configuration of DUPLEX parameter not supported by network.	UJE35

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
A6F4	Unable to establish a network link.	UJE35 FI00722 UJE40 IOA
A801, A805	Input value error in I/O card Licensed Internal Code	AJDG301
A806	Input value error in I/O card Licensed Internal Code	AJDG301 UJE35
A808	Input value error in I/O card Licensed Internal Code	AJDG301 UJE36
A809 to A80A	Input value error in I/O card Licensed Internal Code	AJDG301
A80B	Input value error in I/O card Licensed Internal Code	AJDG301 UJE36
A80C to A80F	Input value error in I/O card Licensed Internal Code	AJDG301
A810	Procedure error in Licensed Internal Code	AJDG301 FI00730
A811 to A812, A815	Procedure error in Licensed Internal Code	AJDG301
A816 to A817	Input value error in I/O card Licensed Internal Code	AJDG301
A818	Output value error in Licensed Internal Code	AJDG301
A819	Input value error in I/O card Licensed Internal Code	FI00730
A81A	Procedure error in Licensed Internal Code	FI00730 AJDG301
A81B	Procedure error in Licensed Internal Code	AJDG301 FI00730
A81C	Output value error in Licensed Internal Code	FI00730
A81E	Output value error in Licensed Internal Code	AJDG301
A81F	Procedure error in Licensed Internal Code	FI00730
A822, A824	Input value error in I/O card Licensed Internal Code	AJDG301
A826 to A827	Procedure error in Licensed Internal Code	AJDG301 FI00730
A829	Output value error in Licensed Internal Code	AJDG301
A82A	Procedure error in Licensed Internal Code	AJDG301
A82D, A82F	Output value error in Licensed Internal Code	AJDG301
A830	Procedure error in I/O card Licensed Internal Code	FI00730
A831	Procedure error in Licensed Internal Code	AJDG301 FI00730
A832	Output value error in Licensed Internal Code	AJDG301
A833	Output value error in Licensed Internal Code	AJDG301 FI00730
A834	Output value error in Licensed Internal Code	AJDG301
A836	Procedure error in Licensed Internal Code	FI00730
A838	Procedure error in Licensed Internal Code	AJDG301
A839, A83B, A840, A842	Procedure error in Licensed Internal Code	AJDG301 FI00730

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
A844, AA06 to AA07	Output value error in Licensed Internal Code	AJDG301
AA11	Number of stations greater than allowed in configuration	UJE35 AJDG301
AA12	Not enough storage to process adapter command	AJDG301
AA15	Procedure error in I/O card Licensed Internal Code	AJDG301 FI00730
ACD0 to ACD1, ACD4 to ACD8	Input value error in I/O card Licensed Internal Code	AJDG301
AF0A to AF0B	Procedure error in Licensed Internal Code	AJDG301 FI00730
FFFF	User suspected communications problem.	USER

Table 2. Failing items details

Failing Item	Description	Document Description
AJDG301	Licensed Internal Code	See the service documentation for instructions.
IOA	Ethernet network adapter card	Repair and Parts; removal and installation procedures
UJE35	DUPLEX value in CRTLINETH command	Communications Configuration
UJE35	SSAP value in CRTLINETH command	Communications Configuration
UJE35	LINESPEED value in CRTLINETH command	Communications Configuration
UJE35	MAXCTL value in CRTLINETH command	Communications Configuration
UJE36	LANACKFRQ value in CRTCTL____command	Communications Configuration
UJE36	DSAP value in CRTCTL____command	Communications Configuration
UJE39	Remote computer equipment	Communications Configuration
UJE40	Network Termination, Network or Network devices	
USER	User suspected communications problem.	

(B010) Reference codes

This SRC might indicate a communications error.

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (B010) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2651	First call failed, retrying call; no CFI from modem The remote answer timer expired without the server detecting either the rise of DSR or a Call Failure Indication from the modem. The system is trying the call again, up to the value of the Dial retry parameter of the controller description.	UJE34 UJA34 FI00704 FI00701

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2652	<p>First call failed, retrying call; CFI AB from modem</p> <p>After dialing the server detected a Call Failure INDICATION AB from the modem. The system is trying the call again, up to the face value of the Dial retry parameter of the controller description. CFI AB is sent from the modem if the modems abort timer expires after answer tone was detected and before the modem is ready for data transfer.</p>	UJ0E3 FI00704 UJA35
2653	<p>First call failed, retrying call; CFI DE from modem</p> <p>After dialing the server detected a Call Failure Indication DE from the modem. The system is trying the call again, up to the value of the Dial retry parameter of the controller description. CFI DE is sent from the modem if the modem failed to detect dial tone when expected or detected dial tone when another tone was expected. This can occur if the telephone cable is not plugged into the back of the modem.</p>	UJ0E3 FI00704
2654	<p>First call failed, retrying call; CFI ET from modem</p> <p>After dialing the server detected a Call Failure Indication ET from the modem. The system is trying the call again, up to the value of the Dial retry parameter of the controller description. CFI ET is sent from the modem if the modem detects a busy signal (engaged tone).</p>	UJ0E3 UJA35
2656	<p>First call failed, retrying call; CFI NT from modem</p> <p>After dialing the server detected a Call Failure Indication NT from the modem. The system is trying the call again, up to the value of the Dial retry parameter of the controller description. CFI NT is sent from the modem if the modems abort timer expires without detecting answer tone, is not detecting ring back, and had detected the expected dial tones. This situation could result from a person answering the telephone.</p>	UJ0E3 FI00705 UJA35
2657	<p>First call failed, retrying call; CFI RT from modem</p> <p>After dialing the server detected a Call Failure Indication RT from the modem. The system is trying the call again, up to the value of the Dial retry parameter of the controller description. CFI RT is sent from the modem if the modem does not detect the remote answer when the abort timer expired, the modem is still detecting ring back. This response is also sent if the modem ends a call because the ring counter reached its limit.</p>	UJ0E3 UJA35
2660	<p>Call failed, retrying call; Non-standard CFI from modem</p> <p>After dialing the server detected a Call Failure Indication from the modem that was not recognized. The system is trying the call again, up to the value of the Dial retry parameter of the controller description.</p>	UJ0E3 FI00704
4594	Wrong telephone number specified in system configuration	UJA35 AJDG301
5000	Wrong command sent by Licensed Internal Code	AJDG301
5001	Procedure error in Licensed Internal Code	AJDG301
5002	<p>Procedure error in Licensed Internal Code</p> <p>Procedure error in machine instructions</p>	UJE34 AJDG301
5003	Procedure error in Licensed Internal Code	AJDG301 UJA34
5004	Incorrect command value sent by Licensed Internal Code	AJDG301
5005 to 5006	Procedure error in Licensed Internal Code	AJDG301

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5007	Procedure error in Licensed Internal Code	AJDG301 UJA34
5009	Incorrect command value sent by Licensed Internal Code	AJDG301
500A	Procedure error in Licensed Internal Code	AJDG301
500B to 500C	Incorrect command value sent by Licensed Internal Code	AJDG301
500D	Incorrect command value sent by Licensed Internal Code	AJDG301 UJA34
500E to 500F, 5010 to 5014	Incorrect command value sent by Licensed Internal Code	AJDG301
5015	Procedure error in Licensed Internal Code	AJDG301
5016 to 5019	Incorrect command value sent by Licensed Internal Code	AJDG301
501A	Licensed Internal Code did not request enough storage	AJDG301
501C	Command value error in I/O card Licensed Internal Code	FI00730
501D	Clear-to-send not active to allow data to be sent	FI00704 AJDG301 FI00701 FI00730 FI00719
501E to 501F	Command value error in I/O card Licensed Internal Code	FI00730
5022	Procedure error in Licensed Internal Code	AJDG301
5023	Procedure error in Licensed Internal Code	AJDG301 UJA34
5024 to 5025	Licensed Internal Code sent commands in wrong order	AJDG301 FI00730
50E0	Wrong or no external communications cable installed	UJA34 UJA34 UJA34 FI00701 FI00719
50E1	Communications line already in use	AJDG301 UJA34 UJA34
50E3 to 50E4	Wrong command value sent by OS/400 licensed program	AJDG301 UJA34
50E5	Incorrect command value sent by Licensed Internal Code	AJDG301 UJA34 UJA34 UJA34
50E6 to 50E7	Incorrect command value sent by Licensed Internal Code	AJDG301 UJA34 FI00730 UJA34
50E8	Wrong command value sent by OS/400 licensed program	AJDG301
50E9, 50EB	Incorrect command value sent by Licensed Internal Code	AJDG301 UJA34
50EC to 50ED	Wrong command value sent by OS/400 licensed program	AJDG301
50EE	Incorrect command value sent by Licensed Internal Code	AJDG301

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
50EF	Wrong number of dial digits in telephone number	UJA35 FI00703 FI00719 FI00702
50F0	No telephone number provided for the call command	AJDG301 UJA35
50F1	Communications line not installed	AJDG301 FI00719 UJA34
50F2	Automatic call unit cable not installed	FI00702 UJA34 FI00719
50F4	Clear-to-send signal dropped warning; information only	UJE34
50F5	Network uncontrolled-not-ready warning; information only	UJE34
50F6	Network controlled-not-ready warning; information only	UJE34
50F7	Data-set-ready changed to not active; for information only	UJE34
50F8	Adapter card transmit error	FI00719
5202	I/O card Licensed Internal Code ended abnormally	FI00730
5203	I/O card Licensed Internal Code resource not available	FI00730
5205	I/O card Licensed Internal Code response not correct	FI00730 AJDG301
5206 to 5207	Communications controller storage not available	UJA33
5208	I/O card Licensed Internal Code ended abnormally	FI00730
5209	I/O card Licensed Internal Code response not correct	FI00730
52E0	Incorrect command used by I/O card Licensed Internal Code	FI00730
52E1	Wrong procedure used in I/O card Licensed Internal Code	FI00730
52E2	I/O card Licensed Internal Code resource not available	UJA33 UJA34 UJA34
52E3	Command response error in I/O card Licensed Internal Code	FI00730
52E4	Wrong command value sent by OS/400 licensed program	AJDG301 UJA34
52E5	Incorrect command value sent by Licensed Internal Code	AJDG301
52E6	Data-line-occupied already active from automatic call unit	FI00703 UJA32 FI00719 FI00702
52E7	X.21 network not in the ready or receive-data state	FI00704 FI00701 FI00719
52E8 to 52E9	Command value error in I/O card Licensed Internal Code	FI00730
52EA	I/O card Licensed Internal Code error	FI00730
5301	Adapter card receive error	FI00719
5302	Adapter card transmit error	FI00719
5401	Communications adapter card interrupt not expected	FI00719 FI00718

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
54E1	Communications line not operational	FI00719 UJA34
5600	Clear-to-send off; error limit per 256 reached	FI00704 AJDG301 UJA34 FI00701 FI00719
5601	Data-set-ready state changed; error limit per 256 reached	FI00704 UJA34 FI00701 FI00719
5602	Clear-to-send state changed; error limit per 256 reached	FI00704 UJA34 FI00701 FI00719
5603	Carrier-detect state changed; error limit per 256 reached	FI00704 FI00705 UJA34 FI00701 FI00719 UJ0E3
5604	Call attempted; error limit per 256 reached	FI00705 UJ0E3 FI00703 UJA34
5605	Call completed with error; error limit per 256 reached	UJ0E3 UJA34
5606	Data-line-occupied error; error limit per 256 reached	FI00703 FI00719 UJA34 FI00702
5607	Abandon-call-retry error; error limit per 256 reached	UJA35 FI00703 UJA34 FI00705 UJ0E3
5608	Present-next-digit error; error limit per 256 reached	FI00703 UJA34 FI00719 FI00702
5609	Distant-station-connected error; error limit per 256 reached	UJA34 FI00705 FI00700 FI00703 FI00719 UJA34 FI00702
560B	Data-set-ready error; error limit per 256 reached	UJA34 FI00705 FI00700 FI00701 FI00719 FI00704 UJA34

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
560C	Wrong number length; error limit per 256 reached	UJA35 FI00703 UJA34
5651	Call failed, no Call Failure Indication from modem The remote answer timer expired without the server detecting either the rise of DSR or a Call Failure Indication from the modem. The system has reached the number of tries in the dial retry parameter in the controller description.	UJE34 UJA34 FI00704 FI00701
56E2	Data-set-ready already active on modem interface	FI00704 FI00701 FI00719
56E3	Automatic call unit data-line-occupied error	FI00703 FI00702 FI00719 UJ0E3
56E4	Automatic call unit has present-next-digit error	FI00703 FI00719 FI00702
56E5	Automatic call unit distant-station-connected error	FI00700 UJA35 FI00703 UJA34 UJA34 FI00701 FI00719 UJ0E3
56E6	Data-set-ready error on modem interface	FI00700 UJ0E3 UJA34 FI00701 FI00719
56E7	Automatic call unit command error	FI00701 FI00704 FI00719
56E8	Clear-to-send not active on modem interface	UJ0E3 UJA34 FI00704 FI00701 FI00719
56E9	Clear-to-send signal failed to drop on modem interface	FI00704 FI00701 FI00719
56EA	Clear-to-send signal dropped on modem interface	UJ0E3 UJA34 FI00704 FI00701 FI00719
56EB	Carrier-detect dropped on modem interface	FI00701 FI00704 UJ0E3 FI00719

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
56EC	Data-set-ready turn-off time-out on modem interface	FI00704 UJA34 FI00701 FI00719
56ED	Data-set-ready turn-on time-out on modem interface	FI00701 FI00704 FI00719 AJDG301
56EE	Automatic call unit abandon-call-retry error	FI00700 UJA35 FI00703 FI00719 FI00702
56EF	Automatic call unit telephone-number-length error	UJA35 FI00703 FI00701
56F0	Automatic call unit power turned off	FI00703 FI00702 FI00719
56F1	Data-set-ready dropped on modem interface	FI00701 FI00704 FI00719 UJ0E3
5701	SDLC frame reject type W transmitted	FI00700 UJA34
5702	SDLC frame reject type X transmitted	FI00700 FI00730 UJA34
5703	SDLC frame reject type Y transmitted	UJA34 FI00700
5704	SDLC frame reject type Z transmitted	FI00730 FI00700 UJA34
5705	SDLC frame reject type W received from remote equipment	FI00730 FI00700
5706	SDLC frame reject type X received from remote equipment	FI00730 FI00700
5707	SDLC frame reject type Y received from remote equipment	FI00730 FI00700 UJA34
5708	SDLC frame reject type Z received from remote equipment	FI00730 FI00700 UJA34
5709	Not valid control field received from remote equipment	UJA34 UJA34 FI00700
570A	Incorrect information field received from remote equipment	FI00700
570B	Incorrect frame reject received from remote equipment	FI00700
570C	Wrong sequence number received from remote equipment	FI00700 UJA34
570D	Wrong response received from remote equipment	FI00700

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
570E	Wrong command received from remote equipment	FI00700
570F	No data in information frame received from remote equipment	FI00700
5710	Nonproductive receive time-out while receiving from remote	UJA34 UJ0E3 FI00704 FI00705 FI00700 FI00701 FI00719
5711	Remote equipment sent more data frames than allowed	UJA34 FI00700
5712	No data received from remote equipment; time-out	AJDG301 UJA34 UJA34 UJ0E3 FI00704 FI00705 FI00700 UJA35 FI00701 UJA34 FI00719 UJA34
5713	Disconnected mode response received from remote system	FI00700 FI00730
5714	Disconnected mode response received from remote system	FI00700
5715	Remote equipment did not respond causing an idle-time-out	UJ0E3 FI00701 UJA34 FI00704 UJA34 FI00705 FI00700 UJA34 UJA34 FI00719
5716	Communications controller storage not available	FI00730
5717	No response from modem during modem test	FI00704 FI00701 FI00719 AJDG301
5718	Retry limit reached for sending frames to remote equipment	UJ0E3 FI00704 FI00705 FI00700 UJA34 FI00701 FI00719
5719	Retry limit reached for sending frames to remote equipment	FI00700

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
571A	Retry limit reached for sending frames to remote equipment	AJDG301 UJA34 UJ0E3 FI00704 FI00705 FI00700 UJA34 UJA34 FI00701 UJA34 FI00719 UJA35 UJA34 UJA34
5720	Retry limit reached for sending poll frame to remote	FI00700 UJA34
5721	Could not send frame to remote equipment; local problem	FI00701 UJA34 FI00704 FI00730 FI00719
5722	Wrong command value sent by OS/400 licensed program	AJDG301 UJA35
5723	Wrong response received from remote equipment	FI00700 UJA34
5724	Retry limit reached for sending frames to remote equipment	UJ0E3 FI00704 FI00705 FI00700 UJA34 FI00701 FI00719
5750 to 5751	Incorrect command value sent by Licensed Internal Code	AJDG301 FI00730
5752	Wrong response received from remote equipment	FI00700 UJA35
5753	Wrong response received from remote equipment	FI00700 FI00730
5754	Wrong response received from remote equipment	FI00700 UJA35 UJA34
5755 to 5756	Wrong response received from remote equipment	FI00700 UJA35
5757	Wrong response received from remote equipment	FI00700 FI00730
5758	Wrong response received from remote equipment	FI00700 FI00730 UJA34 AJDG301
5759	Wrong response received from remote equipment	UJA34 FI00700

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5760	Nonproductive receive time-out while receiving from remote	FI00700 UJ0E3 UJA34
5762	No data received from remote equipment; time-out	FI00700 UJ0E3 UJA34
5764	Adapter card transmit error	FI00701 FI00704 FI00719 FI00730
5768	Communications line clear	UJ0E3 FI00700 UJA34
576A	Wrong response received from remote equipment	FI00700 UJ0E3 UJA34
5770	Incorrect command value sent by Licensed Internal Code	AJDG301 FI00730
5776, 5778, 577A	Wrong response received from remote equipment	FI00700 FI00730
577C	Wrong response received from remote equipment	UJA34 FI00700 UJA35 FI00730 AJDG301
577E	Wrong command received from remote equipment	FI00700 FI00730
5780	Maximum retries reached on XID polls after answer	UJ0E3 UJA34 FI00719 FI00704 UJA34 UJA34
5782	Connection cleared after answer after XID exchange	UJE39 UJA33 UJA34 UJA35 UJA34 UJE34
5784	Call cleared after answer; session reset Call cleared after answer, reset while link disconnected.	UJE34 UJE39
57E0	Frame-check-sequence error; error limit per 256 reached	UJ0E3 FI00705 FI00704 UJA34
57E1	Overrun error; error limit per 256 reached	UJA34 UJA34 UJA34

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
57E2	Short frame error; error limit per 256 reached	UJ0E3 FI00700 FI00705 FI00704 UJA34
57E3	Frame-cancel-received error; error limit per 256 reached	UJ0E3 FI00700 FI00705 FI00704 UJA34
57E4	Idle link detected error; error limit per 256 reached	FI00700 UJ0E3 FI00705 FI00704 UJA34 UJA34 UJA34
57F0	Send sequence counter error; error limit per 256 reached	UJ0E3 FI00700 FI00705 FI00704 UJA34
57F1	Receive sequence counter error; error limit per 256 reached	FI00704 FI00700 UJ0E3 FI00705 UJA34
57F2	Response time-out error; error limit per 256 reached	FI00700 UJ0E3 FI00704 UJA34 UJA34 FI00705 UJA34
5800	Control-not-ready time-out; error limit per 256 reached	FI00704 AJDG301 UJA34
5801	Uncontrolled-not-ready time-out; error limit per 256 reached	AJDG301 FI00704 UJA34 FI00701
5802	State-not-known time-out error; error limit per 256 reached	AJDG301 FI00704 UJA34 FI00701 FI00719
5803	Control-not-ready state changed; error limit per 256 reached	FI00704 UJA34
5804	Not-ready state changed; error limit per 256 reached	FI00704 UJA34 FI00701

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5805	State-not-known changed; error limit per 256 reached	FI00704 UJA34 FI00701 FI00719
5806	State interrupt overrun error; error limit per 256 reached	FI00730 UJA34 FI00704 UJ0E3
5807	Not valid data; error limit per 256 reached	FI00704 UJA34
5808	Data-communications-equipment error; limit per 256 reached	FI00704 FI00705 UJA34 UJ0E3
5809	Control-not-ready in data mode; error limit per 256 reached	UJA34 FI00705 FI00700 UJ0E3 FI00704
580A	Incoming call received during outgoing call; limit reached	UJA34 UJE34
580B	Missed incoming call; error limit per 256 reached	UJA33 UJA34 FI00730
580C	Clear was missed; error limit per 256 reached	UJA33 UJA34 FI00730
580D	Parity error; error limit per 256 reached	FI00704 FI00701 UJA34 FI00719
580E	Receive overrun; error limit per 256 reached	FI00719 UJA34
580F	Temporary storage overrun; error limit per 256 reached	FI00730 UJA34
5810	Network type 1 time-out; error limit per 256 reached	AJDG301 FI00704 UJA34 FI00701 FI00719
5811	Network type 2 time-out; error limit per 256 reached	UJA34 AJDG301 FI00704 FI00705 UJ0E3
5812	Network type 3A time-out; error limit per 256 reached	UJA34 AJDG301 FI00704 FI00705 UJ0E3

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5813	Network type 3B time-out; error limit per 256 reached	UJA34 AJDG301 FI00704 FI00705 UJ0E3
5814	Network type 4A time-out; error limit per 256 reached	FI00704 AJDG301 UJA34
5815	Network type 4B time-out; error limit per 256 reached	UJA34 AJDG301 FI00704 FI00705 UJ0E3
5816	Network type 5 time-out; error limit per 256 reached	FI00704 AJDG301 UJA34
5817	Network type 6 time-out; error limit per 256 reached	FI00704 AJDG301 UJA34
5818	Network type 7 time-out; error limit per 256 reached	FI00704 AJDG301 UJA34
5819	Network type 20 time-out; error limit per 256 reached	AJDG301 FI00704 UJA34 FI00701 FI00719
581A	Network type 21 time-out; error limit per 256 reached	FI00704 AJDG301 UJA34
581B	Call-progress-signal type 00; error limit per 256 reached	UJA34 UJE34
581C	Call-progress-signal type 01; error limit per 256 reached	UJA34 UJE34
581D	Call-progress-signal type 02; error limit per 256 reached	UJA34 UJE34
581E	Call-progress-signal type 03; error limit per 256 reached	UJA34 UJE34
581F	Call-progress-signal type 04; error limit per 256 reached	UJA34 UJE34
5820	Call-progress-signal type 05; error limit per 256 reached	UJA34 UJE34
5821	Call-progress-signal type 20; error limit per 256 reached	UJA34 UJA35 FI00700 FI00705 UJ0E3
5822	Call-progress-signal type 21; error limit per 256 reached	FI00700 UJA34 UJE34 UJA35

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5823	Call-progress-signal type 22; error limit per 256 reached	UJA35 FI00704 UJA34
5824	Call-progress-signal type 23; error limit per 256 reached	FI00701 FI00704 FI00719 UJA34
5825	Call-progress-signal type 41; error limit per 256 reached	UJA35 UJE34 UJA34 UJ0E3
5826	Call-progress-signal type 42; error limit per 256 reached	UJA35 UJA34
5827	Call-progress-signal type 43; error limit per 256 reached	UJA34 UJA35 FI00704 FI00705 UJ0E3
5828	Call-progress-signal type 44; error limit per 256 reached	FI00705 FI00700 UJA35 UJA34
5829	Call-progress-signal type 45; error limit per 256 reached	UJA35 FI00700 UJA34 FI00705
582A	Call-progress-signal type 46; error limit per 256 reached	UJA35 FI00700 FI00705 UJA34
582B	Call-progress-signal type 47; error limit per 256 reached	FI00705 UJA34 UJA35
582C	Call-progress-signal type 48; error limit per 256 reached	UJE34 UJA35 UJA34 FI00704
582D	Call-progress-signal type 49; error limit per 256 reached	UJ0E3 UJA34
582E	Call-progress-signal type 51; error limit per 256 reached	FI00704 FI00705 UJ0E3 UJA34
582F	Call-progress-signal type 52; error limit per 256 reached	UJE34 UJA35 UJA34 FI00705
5830	Call-progress-signal type 61; error limit per 256 reached	UJ0E3 UJA34
5831	Call-progress-signal type 71; error limit per 256 reached	UJ0E3 UJA34

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5832	Call-progress-signal type 72; error limit per 256 reached	UJ0E3 UJA35 UJA34
5833	Call-progress-signal; error limit per 256 reached	AJDG301 UJA34
5836	Call cleared by network equipment	UJ0E3 FI00705 FI00704 FI00700
5837	Network-controlled not-ready state; information only	UJ0E3
5838	I/O card Licensed Internal Code processed wrong command	FI00730 AJDG301
5839	Incorrect command value sent by Licensed Internal Code	AJDG301
583A	Wrong command value sent by OS/400 licensed program	UJA34
583B	Wrong command value sent by OS/400 licensed program	FI00730
583C	Incorrect command value sent by Licensed Internal Code	AJDG301
583D to 583E	I/O card Licensed Internal Code processed wrong command	FI00730
583F	Incorrect command value sent by Licensed Internal Code	AJDG301
5840 to 5841	I/O card Licensed Internal Code used incorrect procedure	UJA33 FI00730
5842	I/O card Licensed Internal Code used incorrect procedure	FI00730
5843	Communications overrun while receiving network data	UJA33 FI00730 FI00719 FI00704
5844	Communications adapter error while receiving network data	FI00719
5845	Communications adapter transmit error on selection sequence	FI00719
5846	Communications adapter received network data incorrectly	UJ0E3 FI00701 FI00719
5847	Communications controller storage not available	FI00730 UJ0E3
5849	Wrong information provided by network	UJ0E3
584A	Automatic answer time-out	UJA34 UJ0E3 FI00704 FI00705
584B	Call error; incoming call received during outgoing call	UJE34 UJA34 FI00730 FI00719 FI00704
5851	Network did not leave controlled-not-ready condition	UJ0E3 FI00704 AJDG301
5852	Network did not leave uncontrolled-not-ready condition	UJ0E3 FI00704 FI00701 AJDG301

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5853	Network remained in unknown condition	AJDG301 FI00704 FI00701 FI00719
5854	Network time-out type 5 occurred	FI00704 AJDG301
5855	Network time-out type 6 occurred	FI00704 AJDG301
5870	Network time-out type 1 occurred	AJDG301 FI00704 FI00701 FI00719
5871	Network time-out type 2 occurred	UJ0E3 FI00704 FI00705 AJDG301
5872	Network time-out type 3A occurred	UJ0E3 FI00704 FI00705 AJDG301
5873	Network time-out type 3B occurred	UJ0E3 FI00704 FI00705 UJA35 AJDG301
5874	Network time-out type 4A occurred	FI00704 AJDG301
5875	Network time-out type 4B occurred	UJ0E3 FI00704 AJDG301
5876	Network time-out type 7 occurred	FI00704 AJDG301
5877	Network time-out type 20 occurred	AJDG301 FI00704 FI00701 FI00719
5878	Network time-out type 21 occurred	FI00704 AJDG301
587A	Call cleared by network equipment	FI00704 UJ0E3 FI00705
587B	Clock signal missing from external communications interface	FI00701 FI00719 FI00704
5890	Network call-progress-signal type 20	FI00700 FI00705 UJ0E3 UJA35
5891	Network call-progress-signal type 21	FI00700 UJA35 UJE34

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5892	Network call-progress-signal type 22	FI00700 FI00704 UJA35
5893	Network call-progress-signal type 23	FI00704 FI00701 FI00719
5894	Network call-progress-signal type 41	FI00700 UJE34 UJ0E3 UJA35
5895	Network call-progress-signal type 42	FI00700 UJA35
5896	Network call-progress-signal type 43	UJ0E3 FI00700 FI00704 FI00705 UJA35
5897	Network call-progress-signal type 44	FI00700 FI00705 UJA35
5898	Network call-progress-signal type 45	FI00700 FI00705 UJA35
5899	Network call-progress-signal type 46	FI00700 FI00705 UJA35
589A	Network call-progress-signal type 47	FI00700 UJ0E3 UJA35 FI00705
589B	Network call-progress-signal type 48	UJE34 FI00700 FI00704 UJA35
589C	Network call-progress-signal type 49	UJ0E3
589D	Network call-progress-signal type 51	FI00704 UJ0E3 FI00705
589E	Network call-progress-signal type 52	UJE34 FI00700 FI00705 UJA35
589F	Network call-progress-signal type 61	UJ0E3
58A0	Network call-progress-signal type 71	UJ0E3
58A1	Network call-progress-signal type 72	UJ0E3
58E0	Communications line not operational	FI00719 UJA34
58E1	Communications connection not made	UJA33 FI00730

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
58E2	Communications line not operational	FI00704 FI00701 FI00719 FI00730
58E4	<p>Port or DCE error has recovered; port now available</p> <p>This reference code does not identify an error but is used to report that an X.21 port used in a short-hold mode, multiple port sharing configuration that was temporarily not operating is now available. One of the following reference codes may have been reported previously:</p> <ul style="list-style-type: none"> • 5870 • 5871 • 5872 • 5873 • 5893 • 5851 • 5852 • 5853 • 587B <p>If any of the listed reference codes are occurring frequently and are causing performance problems, use the reported reference code to isolate the problem.</p>	UJE34
8011	<p>IOP activation failed.</p> <p>MDMCNTRYID parameter in Network Attributes is not set. Use the CHGNETA command to set MDMCNTRYID value.</p>	UJE34
8013	<p>IOP activation failed.</p> <p>The MDMCNTRYID parameter in Network Attributes is not valid for this adapter. Use the CHGNETA command to change MDMCNTRYID.</p>	UJE34
8020	System log entry only, no service action required	
FFFF	User suspected communications problem.	USER

Table 2. Failing items details

Failing Item	Description	Document Description
AJDG301	Licensed Internal Code	See the service documentation for instructions.
UJ0E3	Communications network equipment	
UJA32	Line or automatic call unit already in use	Communications Configuration
UJA33	Too many communications lines in use	Communications Configuration
UJA34	CNNPOLLTMR value in CRTLNSDLC command	Communications Configuration
UJA34	CNNPOLLRTY value in CRTLNSDLC command	Communications Configuration
UJA34	CTSTMR value in CRTLNSDLC command	Communications Configuration
UJA34	AUTOANS, AUTODIAL, SWTCNN, CNN values in CRTLNSDLC command	Communications Configuration
UJA34	DIALRTY value in CRTCTL____ command	Communications Configuration

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Failing Item	Description	Document Description
UJA34	DSRDRPTMR value in the CRTLINS DLC command	Communications Configuration
UJA34	LINESPEED value in CRTLINS DLC command	Communications Configuration
UJA34	NRZI value in CRTLINS DLC command	Communications Configuration
UJA34	INACTTMR value in CRTLINS DLC command	Communications Configuration
UJA34	CNNTMR value in CRTLINS DLC command	Communications Configuration
UJA34	SWTCNN, AUTOANS values in CRTLINS DLC command	Communications Configuration
UJA34	MAXFRAME value in CRTLINS DLC command	Communications Configuration
UJA34	SNBU, MODEMRATE, DUPLEX values in CRTLINS DLC command	Communications Configuration
UJA34	MODULUS value in CRTLINS DLC command	Communications Configuration
UJA34	FRAMERTY value in CRTLINS DLC command	Communications Configuration
UJA34	MAXCTL value in CRTLINS DLC command	Communications Configuration
UJA34	ACRSRCNAME value in CRTLINS DLC command	Communications Configuration
UJA34	EXCHID value in CRTCTL____ command	Communications Configuration
UJA34	SHMNODE value in CRTLINS DLC command	Communications Configuration
UJA34	NPRDRCVTMR value in CRTLINS DLC command	Communications Configuration
UJA34	Operator reset local controller (vary on/off) but not remote	Communications Configuration
UJA34	INTERFACE value in CRTLINS DLC command	Communications Configuration
UJA34	SHMNODE value in CRTLINS DLC command	Communications Configuration
UJA34	MAXOUT value in CRTLINS DLC command	Communications Configuration
UJA34	THRESHOLD value in CRTLINS DLC command	Communications Configuration
UJA34	RMTANSTMR value in the SDLC command	Communications Configuration
UJA34	RSRCNAME value in the CRTLINS DLC command	Communications Configuration
UJA34	IDL TMR value in CRTLINS DLC command	Communications Configuration
UJA34	ROLE value in CRTLINS DLC command	Communications Configuration
UJA35	CNNNBR value in the CRTCTL____ command	Communications Configuration
UJA35	RMTNETID value in CRTCTLAPPC command	Communications Configuration
UJA35	STNADR value in CRTCTL____ command	Communications Configuration
UJE34	Configuration or OS/400 licensed program	Communications Configuration
UJE34	Excessive usage on X.21 network	Communications Configuration
UJE34	X.21 network service problem	Communications Configuration
UJE34	No failure found	Communications Configuration
UJE39	Configuration problem in remote equipment	Communications Configuration
USER	User suspected communications problem.	See the service documentation for instructions.

(B013) Reference codes

This SRC might indicate a cryptographic adapter error.

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (B013) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6601	I/O adapter hardware error detected	IOA PTFSRCH IOP
6602	An I/O processor Licensed Internal Code error occurred.	PTFSRCH IOA IOP
6603	Tampering of cryptographic card suspected.	IOA IOP PTFSRCH
6604	Operating voltage or temperature range limits exceeded. Correct any conditions in the physical environment which might have caused the voltage or temperature out-of-range error on the 4758 adapter card. After you correct the conditions, vary off and then vary back on the 4758 device description associated with the 4758 adapter card.	CARDTMP
6611	I/O adapter hardware error detected	IOA PTFSRCH
6613	Tampering of cryptographic card suspected.	IOA PTFSRCH
6614	Operating voltage or temperature range limits exceeded. Correct any conditions in the physical environment which might have caused the voltage or temperature out-of-range error on the cryptographic adapter card. After you correct the conditions, vary off and then vary back on the device description associated with the cryptographic adapter card.	CARDTMP
6615	Cryptographic adapter LIC not loaded or not valid.	LOADCY1 PTFSRCH IOA
6616	System log entry only, no service action required	
6617	Adapter monitoring circuitry has failed.	IOA PTFSRCH
6618	Adapter monitoring circuitry has exceeded threshold. The adapter can be varied on and used, but should be replaced during the next scheduled maintenance of the system.	IOA PTFSRCH

Table 2. Failing items details

Failing Item	Description	Document Description
CARDTMP	Operating voltage or temperature range limit exceeded	See the service documentation for instructions.
IOA	I/O adapter card	See the service documentation for instructions.
IOP	I/O processor card	See the service documentation for instructions.
LOADCY1	I/O card Licensed Internal Code	See the service documentation for instructions.
PTFSRCH	Licensed Internal Code	See the service documentation for instructions.

B014

(B014) Reference codes

This SRC might indicate a communications error.

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (B014) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6661	Negative-acknowledgment received	
B005	Block-check error on data received	UJ0E3 UJB35 UJB35 FI00704 FI00705 FI00719 UJE34
B010	Clear-to-send signal dropped on modem interface	FI00701 FI00704 FI00719 AJDG301
B015	Carrier-detect dropped on modem interface	FI00701 UJ0E3 FI00704 FI00705 UJB35 AJDG301 FI00719
B020	Clear-to-send signal did not come up in required time	FI00701 FI00704 UJB35 FI00719 AJDG301
B025	Clear-to-send signal did not drop in required time	FI00701 FI00704 UJB35 FI00719 AJDG301
B030	Remote equipment did not respond in time-out period	UJ0E3 FI00700 UJB35 FI00719 FI00704 AJDG301
B035	Remote equipment did not respond in time-out period	FI00700 UJB35
B037	Too many or too few synchronization characters	UJ0E3 FI00700 UJB35 FI00719 FI00704 AJDG301

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B040	Time-out; no data received	UJ0E3 FI00701 UJB35 UJB35 FI00719 FI00704 UJB35 FI00700
B045	Unexpected response to temporary-text-delay	FI00700 UJ0E3 FI00719 UJB35 FI00704
B050	Unexpected response to wait-acknowledge	FI00700 UJ0E3 FI00719 UJB35 FI00704
B055	Data loss because receive buffer full	UJB35 UJ0E3 UJB35 FI00719 FI00704 FI00700
B060	No response to temporary-text-delay or wait-acknowledge	UJ0E3 FI00701 UJB35 UJB35 FI00719 FI00704 UJB35 FI00700
B065	Protocol error	UJB35 FI00718 FI00700 FI00719 FI00704
B070, B072	Clock signal missing from external communications interface	FI00701 FI00704 FI00719
B075	Communications IOP processed data received too slow	UJP37 UJB35 FI00719 UJ0E3
B085	Data-set-ready dropped on modem interface	FI00701 FI00704 FI00719 UJ0E3 AJDG301
B090	Negative-acknowledgment received	UJ0E3 UJB35 UJB35 FI00719 UJE34 FI00704

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B105	Data not recognized	UJ0E3 FI00719 UJB35 FI00704
B110	Remote system did not receive last acknowledgment sent	UJ0E3 UJB35 FI00719 FI00704

Table 2. Failing items details

Failing Item	Description	Document Description
AJDG301	Licensed Internal Code	See the service documentation for instructions.
UJ0E3	External devices or network	
UJB35	STXLRC value in CRTLINBSC command	Communications Configuration
UJB35	DTASTTRTY value in CRTLINBSC command	Communications Configuration
UJB35	RCVTMR value in CRTLINBSC command	Communications Configuration
UJB35	MAXBUFFER value in CRTLINBSC command	Communications Configuration
UJB35	CTNRTY value in CRTLINBSC command	Communications Configuration
UJE34	Not valid user data sent or received	Communications Configuration
UJP37	Too many line descriptions active	Communications Configuration

(B015) Reference codes

This SRC might indicate a communications error.

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (B015) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
A555, A5AA, A5DD, A5E1 to A5E2, A5EE, A5F1 to A5F3, A5F5, A5F7, A5F9 to A5FA, A5FC	I/O card Licensed Internal Code failed	FI00730
A800	I/O card Licensed Internal Code failed	UJE36
A802 to A804	Input value error in I/O card Licensed Internal Code	AJDG301
A807	Input value error in I/O card Licensed Internal Code	FI00730 AJDG301
A814	Procedure error in Licensed Internal Code	AJDG301 FI00730
A820	Procedure error in Licensed Internal Code	AJDG301
A821, A823	Input value error in I/O card Licensed Internal Code	AJDG301
A825, A837	Procedure error in Licensed Internal Code	AJDG301 FI00730

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
A83C	Procedure error in Licensed Internal Code	AJDG301
A83D	Procedure error in Licensed Internal Code	FI00730
A845 to A847	Input value error in I/O card Licensed Internal Code	AJDG301
AA09	Response from I/O card Licensed Internal Code not expected	FI00730
AA10	Number of stations greater than allowed in configuration	UJE35
AA13, AA16	Procedure error in I/O card Licensed Internal Code	FI00730
AA17 to AA18	I/O card Licensed Internal Code failed	FI00730
AF04	Wrong response received from I/O card Licensed Internal Code	AJDG301
AF05, AF07	Local area network adapter; remote station error	UJE39
AF08	Wrong response received from I/O card Licensed Internal Code	FI00730
AF09	Input value error in I/O card Licensed Internal Code	FI00730 AJDG301
AFFF	Procedure error in Licensed Internal Code	FI00730 UJE34

Table 2. Failing items details

Failing Item	Description	Document Description
AJDG301	Licensed Internal Code	See the service documentation for instructions.
UJE34	Local area network busy because of maximum usage	See the service documentation for instructions.
UJE35	MAXCTL value in CRTLINTRN command	See the service documentation for instructions.
UJE36	Lack of I/O processor resources	See the service documentation for instructions.
UJE39	Remote computer equipment	See the service documentation for instructions.

(B017) Reference codes

This SRC might indicate a cryptographic adapter error.

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (B017) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0001	Low battery condition detected on IOA.	CRYPBAT
9001	Information only, no service action required	

Table 2. Failing items details

Failing Item	Description	Document Description
CRYPBAT	Cryptographic adapter battery	See the service documentation for instructions.

(B018) Reference codes

This SRC might indicate a communications error.

B018

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (B018) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6004	ABEND due to unrecoverable condition.	AJDGP01
6005	IOP activation failed.	AJDGP01
6006	Error in OS/400 code.	
6007	Error in OS/400 code.	AJDG301
6008 to 6009	External devices or network	
600A	IOP activation failed.	FI00701 GCCNET IOA
8001	ABEND due to unrecoverable condition.	AJDGP01
8002	IOP activation failed.	AJDGP01
8003	ABEND due to failure to communicate with system.	
8004	I/O adapter hardware error detected	IOA
8005	ABEND due to unrecoverable condition.	AJDGP01
8006	IOP activation failed.	AJDGP01
8007	Error in OS/400 code.	
8011	IOP activation failed. The MDMCNTRYID parameter in Network Attributes is not set. Use the CHGNETA command to set MDMCNTRYID.	
8012	IOP activation failed. The network type is *NISDN and there is a value for SPID but *NONE or *CNL was specified for LCLNBR. Run CHGNWIISDN and supply a value for either the first or second local number parameter (LCLNBR) as required, then vary on the NWI again.	
8013	IOP activation failed. The MDMCNTRYID parameter in Network Attributes is not valid for this adapter. Use the CHGNETA command to change MDMCNTRYID .	UCCCONF

Table 2. Failing items details

Failing Item	Description	Document Description
AJDG301	Licensed Internal Code	See the service documentation for instructions.
AJDGP01	I/O card Licensed Internal Code	See the service documentation for instructions.
GCCNET	Network equipment	
IOA	Communications adapter card	See the service documentation for instructions.
UCCCONF	Configuration	

(B019) Reference codes

This SRC might indicate a communications error.

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (B019) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
7004	ABEND due to unrecoverable condition.	AJDGP01
7005	IOP activation failed.	
7006	Error in OS/400 code.	
7007	Licensed Internal Code error	AJDG301
7008	Frame reject received from remote system.	AJDGP01
7009	Frame reject type Y received/sent	
700A	IDLC sent a frame reject.	GCERMT
700B	IDLC frame retry limit reached.	
700C to 700F, 7010	Remote configuration error.	
7011	IOP activation failed.	CCELCFG AJDG301
7012	IDLC line description configuration error	
8001	ABEND due to unrecoverable condition.	AJDGP01
8002	IOP activation failed.	AJDGP01
8003	ABEND due to failure to communicate with system.	
8004	I/O adapter hardware error detected	IOA
8005	ABEND due to unrecoverable condition.	AJDGP01
8006	IOP activation failed.	
8007	Error in OS/400 code.	

Table 2. Failing items details

Failing Item	Description	Document Description
AJDG301	Licensed Internal Code	See the service documentation for instructions.
AJDGP01	I/O card Licensed Internal Code	See the service documentation for instructions.
CCELCFG	IDLC line description configuration error	Communications Configuration
GCERMT	Data link or remote data communications equipment	
IOA	Communications adapter card	See the service documentation for instructions.

(B020) Reference codes

This SRC might indicate a communications error.

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (B020) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
8001	ABEND due to unrecoverable condition.	AJDGP01

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
8004	I/O adapter hardware error detected	FI00719
8005	ABEND due to unrecoverable condition.	AJDGP01
8020, 8030	System log entry only, no service action required	
9001	ABEND due to unrecoverable condition.	AJDGP01 FI00719
9004	IOP activation failed.	AJDGP01 FI00719

Table 2. Failing items details

Failing Item	Description	Document Description
AJDG301	OPRS OS/400 licensed program	Service Functions; APAR or LICTR
AJDGP01	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
CCFNWIC	NWI configuration error	Communications Configuration
CCFPARM	IDLC MAXFRAME parameter	Communications Configuration
CCFRMTC	Configuration problem in remote equipment	Communications Configuration
GCFIINT	ISDN physical interface	
GCFNET	Network equipment	
GCFNTWK	External devices or network	
GCFRMT	Data link or remote data communications equipment	
GCFTOPO	ISDN network topology	
UCFCNF	Configuration	

(B021) Reference codes

This SRC might indicate a communications error.

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (B021) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
C200	Communications controller task ended abnormally; type 1	FI00730
C201 to C203	I/O card Licensed Internal Code ended abnormally	FI00730
C240	Receive CRC errors; threshold limit reached	UNM36 UNU01 UNM31 UNM31 IOA
C241	Short frame errors; limit reached	UNU01 UNM36 UNM36 UNM31 AJDG301

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
C242	Overrun error; threshold limit reached	UNM32 UNM31 UNM31
C243	Underrun error; threshold limit reached	UNM32 UNM31 UNM31
C244	Aborted frames received; threshold limit reached	UNM36 UNU01 74F1663 UNM31 UNM31
C250	Number of frames retransmitted exceeded threshold limit	UNM36 UNU01 UNM31 UNM31
C251	Send sequence (Ns) count error threshold limit reached	UNM36 UNU01 UNM31 UNM31 FI00730
C255	Set-asynchronous-balance-mode frame received in data mode	UNM36 UJE34
C257	Disconnect mode frame received when transmitting information	UNM36 FI00730
C259	Unsolicited disconnect mode frame with final set received	UNM36 UNM31
C25C	Frame with an incorrect command field received	UNM36 FI00730
C25D	Frame with an incorrect format received	UNM36 FI00730
C25E	Frame with an incorrect NR count received	UNM36 FI00730
C25F	I-frame with oversized data received	UNM36 AJDG301 UNM31
C260	Disconnect retry limit reached	UNM36 UNU01
C261	Frame reject type W received	FI00730 UNM36
C262	Frame reject type X received	FI00730 UNM36
C263	Frame reject type Y received	AJDG301 FI00730
C264	Frame reject type Z received	FI00730 UNM36
C269	Frame with an incorrect format received	UNM36 FI00730
C270	Wrong command received by communications controller	FI00730
C274	Number of stations greater than allowed in configuration	AJDG301 FI00730

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
C275	I/O card LIC followed incorrect procedure	FI00730
C276, C278	Wrong command value received by communications IOP	FI00730
C279	Wrong data length received by communications controller	FI00730
C27A	Wrong command value received by communications IOP	FI00730
C27C	Communications controller task ended abnormally; type 1	FI00730
C281	Wrong command value received by communications IOP	AJDG301
C28B to C28C	Wrong command value received by communications IOP	FI00730
C290	Wrong command value received by communications IOP	AJDG301 FI00730
C291 to C293	Licensed Internal Code sent incorrect command values	AJDG301 FI00730
C294	Licensed Internal Code sent incorrect command values	AJDG301 FI00730 UNM31
C295	Wrong command value received by communications IOP	AJDG301 FI00730 UNM31
C296	Licensed Internal Code sent incorrect command values	AJDG301 FI00730 UNM31
C297	Licensed Internal Code sent incorrect command values	AJDG301 FI00730
C298	Licensed Internal Code sent incorrect command values	AJDG301 FI00730 UNM31
C299	I/O card LIC followed incorrect procedure	FI00730
C2A0	Wrong command value received by communications IOP	AJDG301 FI00730
C2A6	Frame retry limit reached	UNM36 UNM31 UNU01
C2A7	Error when assigning communications controller storage	UNM32 FI00730
C2A9	Communications controller storage not available There are already two communication traces active on this resource.	UNM32
C2B0	Terminal endpoint identifier assignment procedure failed	UNM36 UNM31
C2B1	Terminal endpoint identifier assignment procedure failed	UNM36
C2B2 to C2B3	Terminal endpoint identifier assignment procedure failed	UNM36 FI00730
C2B4	Terminal endpoint identifier temporarily removed	UNM36 FI00730
C2B5	OS/400 licensed program sent an incorrect configuration	AJDG301
C2B7	Manually assigned TEI removed permanently	UNM36 UNM31 FI00730
C2C0	OS/400 licensed program sent an incorrect configuration	AJDG301

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
C2C1	OS/400 licensed program sent an incorrect configuration	AJDG301 FI00730
C2C2	OS/400 licensed program sent an incorrect configuration	AJDG301 FI00730 UNM31
C2C3	OS/400 licensed program sent an incorrect configuration	AJDG301 FI00730
C2C4	Configuration or OS/400 licensed program	AJDG301 FI00730
C2C5	OS/400 licensed program sent an incorrect configuration	FI00730 AJDG301 UNM31
C2C6 to C2C9, C2CE to C2CF, C2D0	OS/400 licensed program sent an incorrect configuration	AJDG301 FI00730
C2D4	OS/400 licensed program sent an incorrect configuration	FI00730 AJDG301 UNM31
C2D5	OS/400 licensed program sent an incorrect configuration	AJDG301
C2D6	OS/400 licensed program sent an incorrect configuration	FI00730 AJDG301 UNM31
C2D7 to C2D8	Licensed Internal Code sent incorrect command values	AJDG301
C2E3	Licensed Internal Code sent incorrect command values	FI00730
C2E5 to C2EB	Licensed Internal Code sent incorrect command values	AJDG301 FI00730
CA04	No error found The threshold counter containing the number of outgoing calls has reached its limit.	AJDG301 FI00730
CA06	Outgoing calls rejected, limit exceeded.	AJDG301 FI00730
CA18	No error found The threshold counter containing the number of outgoing calls has reached its limit.	AJDG301 FI00730
CA1A	Incoming call rejected, limit exceeded.	AJDG301 FI00730
CA1E	Controller card detected a buffer assignment error	UNM36
CA23	Call rejected; wrong value from remote system	UNM36
CA28	Licensed Internal Code sent an incorrect command	AJDG301 FI00730
CA2A, CA30, CA32 to CA33, CA38	Licensed Internal Code sent incorrect command values	AJDG301 FI00730
CA3E	Licensed Internal Code sent an incorrect command	AJDG301 FI00730
CA40	Licensed Internal Code sent incorrect command values	AJDG301 UNM31 FI00730

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
CA42 to CA44, CA46 to CA47, CA66	Licensed Internal Code sent incorrect command values	AJDG301 FI00730
CA68	Licensed Internal Code sent an incorrect command	UNM31
CA6C	Wrong data length received by communications controller	AJDG301 FI00730
CA75	Remote equipment did not respond in time-out period	UNM36
CA76	ISDN Q.931 restart message received.	UNM36
CA77	RESTART ACKNOWLEDGE error; threshold limit reached.	74F1663 UNM36
CA78	ISDN Q.931 protocol error.	AJDG301 UNM36 FI00730
CA79	ISDN Q.931 protocol error.	UNM36 AJDG301
CA80, CA82	Licensed Internal Code sent incorrect command values	AJDG301 FI00730
CA84	PTF is required to enable requested nettype	UNM38 AJDG301 FI00730
CA85 to CA86, CA88, CA8A, CA8C, CA8E, CA90, CA96	Licensed Internal Code sent incorrect command values	AJDG301 FI00730
CA98	Licensed Internal Code sent incorrect command values	FI00730 AJDG301
CA9A, CA9C, CAA0, CAA2, CAA4	Licensed Internal Code sent incorrect command values	AJDG301 FI00730
CAA6	Licensed Internal Code sent incorrect command values	FI00730 AJDG301
CAA8, CAAA, CAAC, CAAE, CAB0	Licensed Internal Code sent incorrect command values	AJDG301 FI00730
CAB2	Error during get configuration request	UNM32 FI00730
CAB4	Resource or storage not available	UNM32 AJDG301 FI00730
CAB5 to CABF	OS/400 licensed program sent an incorrect configuration	AJDG301 FI00730
CAF0 to CAF1	I/O card Licensed Internal Code stopped because of error	FI00730
D200	Loss of synchronization error; threshold limit reached.	UNM36 UNU01 74F1663 UNM31 UNM31

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
D201	Local end code violation, threshold limit reached.	UNU01 UNM36 74F1663 UNM31 UNM31
D202	DTSE-IN error; threshold limit reached.	UNM35 UNM36 UNM31 UNM31
D203	DTSE-OUT error; threshold limit reached.	UNM35 UNM36 UNM31 UNM31
D204	Far end code violation, threshold limit reached.	UNM36 UNM31 UNM31
D210	Wrong command received by communications controller	AJDG301 FI00730
D212 to D217	Wrong command value sent by OS/400 licensed program	AJDG301 FI00730
D219	Wrong adapter type value sent by Licensed Internal Code	AJDG301
D21A	Wrong slot number value sent by Licensed Internal Code	AJDG301
D21B to D21C	Wrong command value sent by OS/400 licensed program	AJDG301 FI00730
D21D	Communications adapter card not installed	AJDG301 FI00730 IOA
D21E	ISDN channel already in use	AJDG301 FI00730
D220	Physical interface could not activate	74F1663 UNM36 IOA UNM31
D221	Physical interface lost activation	74F1663 UNM36 UNM31 IOA
D223	Loss of received signal message from remote U interface	UNM35 UNM31
D224	Loss of power message received from remote U interface	UNM35
D225	Loss of ISDN Power Source 1 (PS1) detected by adapter	UNM36 74F1663 IOA
D226	Loss of ISDN Power Source 1 (PS1) detected by adapter	74F1663 UNM36 UNM31 IOA
D228	Physical interface temporarily lost synchronization	UNM36 IOA 74F1663

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
D230	Channelized hardware error detected	IOA FI00730
D232	I/O adapter hardware error detected	IOA FI00730
D233	Error in I/O card Licensed Internal Code	FI00730 UNM32
D234	Error when releasing communications controller storage	FI00730
D235	Error when assigning communications controller storage	UNM32 FI00730
D236	ISDN channel hardware not operational	AJDG301 FI00730
D240 to D241	Error in I/O card Licensed Internal Code	FI00730
D244	Error when releasing communications controller storage	FI00730
D245	Error when assigning communications controller storage	UNM32 FI00730
D246	Error in I/O card Licensed Internal Code	FI00730
D247	Wrong command value received by communications IOP	FI00730
D250	Incorrect command used by I/O card Licensed Internal Code	FI00730
D251	Error in I/O card Licensed Internal Code	FI00730
D260 to D266	OS/400 licensed program sent an incorrect configuration	AJDG301 FI00730
FFFF	User suspected communications problem.	USER

Table 2. Failing items details

Failing Item	Description	Document Description
74F1663	Locally attached external cable	System Problem Analysis information
AJDG301	Licensed Internal Code	See the service documentation for instructions.
IOA	Communications adapter card	Repair and Parts; removal and installation procedures
UJE34	No failure found	Communications Configuration
UNM31	FRAMERTY value in CRTNWIISDN command	Communications Configuration
UNM31	FRAMERTY value in CRTNWIISDN command	Communications Configuration
UNM31	FRMSEQERR value in CRTNWIISDN command	Communications Configuration
UNM31	RETRANSMIT value in CRTNWIISDN command	Communications Configuration
UNM31	FRAMEALIGN value in CRTNWIISDN command	Communications Configuration
UNM31	CRCRCV value in CRTNWIISDN command	Communications Configuration
UNM31	ADTZ LCLNBRTYPE value in CRTNWIISDN command	Communications Configuration
UNM31	SRDF SRVDIF value in CRTNWIISDN command	Communications Configuration
UNM31	NETTYPE value in CRTNWIISDN command	Communications Configuration
UNM31	THRESHOLD value in CRTNWIISDN command	Communications Configuration

Failing Item	Description	Document Description
UNM32	Heavy workload on communications controller card	Communications Configuration
UNM35	Remote ISDN U interface	
UNM36	RMTZ Data link or remote data communications equipment	
UNM36	External devices or network	
UNM36	Network equipment	
UNM38	Required PTF is not installed	
UNU01	ISDN physical interface	
USER	User suspected communications problem.	

(B022) Reference codes

This SRC might indicate a communications error.

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (B022) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
C200	Communications controller task ended abnormally; type 1	FI00730
C201 to C203	I/O card Licensed Internal Code ended abnormally	FI00730
C240	Receive CRC errors; threshold limit reached	UNM36 UMU01 UNU31 AJDG301 IOA
C241	Short frame errors; limit reached	UNU02 UNM36 UNU31 UMU01 AJDG301
C242	Overrun error; threshold limit reached	UNM32 UNU31 UNU31
C243	Underrun error; threshold limit reached	UNM32 UNU31 UNU31
C244	Aborted frames received; threshold limit reached	UNM36 UMU01 UNU31 AJDG301 UNU31
C250	Number of frames retransmitted exceeded threshold limit	UNM36 UMU01 UNU31

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
C251	Send sequence (Ns) count error threshold limit reached	UNM36 UMU01 FI00730 UNU31
C255	Set-asynchronous-balance-mode frame received in data mode	UNM36
C257	Disconnect mode frame received when transmitting information	UMN36 FI00730
C259	Unsolicited disconnect mode frame with final set received	UMN36
C25C	Frame with an incorrect command field received	UMN36
C25D	Frame with an incorrect format received	UMN36
C25E	Frame with an incorrect NR count received	UMN36 UNU31 UNU02 FI00730
C25F	I-frame with oversized data received	UMN36 AJDG301
C260	Disconnect retry limit reached	UNM36 74F1663 UNU32 AJDG301
C261	Frame reject type W received	FI00730 UMN36
C262	Frame reject type X received	FI00730 UNM36
C263	Frame reject type Y received	AJDG301 FI00730
C264	Frame reject type Z received	UMN36 UNU02 FI00730
C269	Frame with an incorrect format received	UMN36 FI00730
C270	Wrong command received by communications controller	AJDG301
C274	Number of stations greater than allowed in configuration	AJDG301 FI00730
C275	I/O card LIC followed incorrect procedure	FI00730 AJDG301
C276	Wrong command value received by communications IOP	AJDG301 FI00730
C277	Wrong command received by communications controller	AJDG301 FI00730
C278	Wrong command value received by communications IOP	AJDG301 FI00730
C279	Wrong data length received by communications controller	AJDG301 FI00730
C27A	Wrong command value received by communications IOP	AJDG301 FI00730
C27C	I/O card Licensed Internal Code ended abnormally	FI00730

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
C27F	I-frame with oversized data received	AJDG301 FI00730
C281, C28B to C28C	Wrong command value received by communications IOP	AJDG301
C290	Wrong command value received by communications IOP	AJDG301 FI00730
C291 to C292	Licensed Internal Code sent incorrect command values	AJDG301 UNU32 FI00730
C293	Licensed Internal Code sent incorrect command values	AJDG301 FI00730 UNU32 UNU31
C294	Licensed Internal Code sent incorrect command values	AJDG301 FI00730 UNU31 UNU32
C295	Wrong command value received by communications IOP	AJDG301 FI00730 UNU32 UNU31
C297	Licensed Internal Code sent incorrect command values	AJDG301 FI00730 UNU32 UNU31
C298	Licensed Internal Code sent incorrect command values	AJDG301 FI00730
C299	I/O card LIC followed incorrect procedure	AJDG301 FI00730
C2A0, C2A2	Wrong command value received by communications IOP	AJDG301 FI00730
C2A6	Frame retry limit reached	UNM36 UNM36 UMU01 AJDG301 UNU31 UNU32 UNU32 UNU31
C2A7	Error when assigning communications controller storage	UNM32 FI00730
C2A9	Communications controller storage not available	UNM32
C2AA	ISDN B-channel transmit hang	UNM36 UMU01 FI00730
C2AB	ISDN B-channel protocol mismatch detected	UNU02
C2C1	OS/400 licensed program sent an incorrect configuration	AJDG301 FI00730
C2C2	OS/400 licensed program sent an incorrect configuration	FI00730 AJDG301

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
C2C3	OS/400 licensed program sent an incorrect configuration	AJDG301 FI00730
C2C4	Configuration or OS/400 licensed program	AJDG301 FI00730
C2C5	OS/400 licensed program sent an incorrect configuration	AJDG301 FI00730
C2C6 to C2C7	OS/400 licensed program sent an incorrect configuration	FI00730 AJDG301 UNU32
C2C8 to C2C9, C2CE to C2CF, C2D0	OS/400 licensed program sent an incorrect configuration	AJDG301 FI00730
C2D7 to C2D8	Licensed Internal Code sent incorrect command values	AJDG301
C2D9	Wrong command value received by communications IOP	FI00730 AJDG301
C2E0	I/O card LIC followed incorrect procedure	AJDG301 FI00730
C2E1	Licensed Internal Code sent incorrect command values	AJDG301 FI00730
C2E3 to C2EB	OS/400 licensed program sent an incorrect configuration	AJDG301 FI00730
D210	Wrong command received by communications controller	AJDG301 FI00730
D212 to D213	Wrong command value sent by OS/400 licensed program	AJDG301 FI00730
D216	Wrong command value sent by OS/400 licensed program	FI00730 AJDG301
D219	Wrong adapter type value sent by Licensed Internal Code	AJDG301
D21A	Wrong slot number value sent by Licensed Internal Code	AJDG301
D21C	Wrong command value sent by OS/400 licensed program	AJDG301 FI00730
D21D	Communications adapter card not installed	AJDG301 FI00730 IOA
D21E	ISDN channel already in use	AJDG301 FI00730
D230	Channelized hardware error detected	FI00730
D233	Error in I/O card Licensed Internal Code	FI00730 UNM32
D234	Error when releasing communications controller storage	FI00730
D235	Error when assigning communications controller storage	UNM32 FI00730
D236	ISDN channel hardware not operational	FI00730 AJDG301
D240 to D241	Error in I/O card Licensed Internal Code	FI00730
D244	Error when releasing communications controller storage	FI00730

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
D245	Error when assigning communications controller storage	UNM32 FI00730
D246	Error in I/O card Licensed Internal Code	FI00730
D247	Wrong command value received by communications IOP	FI00730
D250	Incorrect command used by I/O card Licensed Internal Code	FI00730
D251	Error in I/O card Licensed Internal Code	FI00730

Table 2. Failing items details

Failing Item	Description	Document Description
74F1663	Locally attached external cable	System Problem Analysis information
AJDG301	Licensed Internal Code	See the service documentation for instructions.
IOA	Communications adapter card	Repair and Parts; removal and installation procedures
UMN36	Remote data communications equipment	
UMU01	ISDN physical interface	
UNM32	Heavy workload on communications controller card	Communications Configuration
UNM36	Network equipment	
UNM36	Data link or remote data communications equipment	
UNU02	Configuration problem in remote equipment	Communications Configuration
UNU31	IDLCWDWSIZE value in the CRTLINIDLC command	Communications Configuration
UNU31	IDLCCNNRTY value in the CRTLINIDLC command	Communications Configuration
UNU31	THRS THRESHOLD value in the CRTLINIDLC command	Communications Configuration
UNU31	IDLCRSPTMR value in the CRTLINIDLC command	Communications Configuration
UNU31	BUFOVER value in the CRTLINIDLC command	Communications Configuration
UNU31	BUFUNDER value in the CRTLINIDLC command	Communications Configuration
UNU31	ABORTS value in the CRTLINIDLC command	Communications Configuration
UNU31	IDLCFRMRTY value in the CRTLINIDLC command	Communications Configuration
UNU32	IDLCWDWSIZE value in the CRTCTL____ command	Communications Configuration
UNU32	IDLCCNNRTY value in the CRTCTL____ command	Communications Configuration
UNU32	IDLCRSPTMR value in the CRTCTL____ command	Communications Configuration
UNU32	ARTY IDLCFRMRTY value in the CRTCTL____ command	Communications Configuration

(B025) Reference codes

This SRC might indicate a communications error.

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (B025) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
A000	Input value error in I/O card Licensed Internal Code	AJDGP01
A001	Input value error in I/O card Licensed Internal Code	AJDG301
A013	Wrong configuration data given to Ethernet controller	AJDG301
A01B, A209	Input value error in I/O card Licensed Internal Code	AJDG301
A404	Ethernet adapter card error	IOA AJDGP01
A6D5 to A6D6	Wrong configuration data given to Ethernet controller	AJDG301
A6D9	Ethernet adapter card error	IOA FI00722 IOP
A6E3	Ethernet adapter or network device cabling error.	FI00722 UJE40 IOA
A6F2	Configured line speed not supported by network.	UJE35
A6F3	Configuration of DUPLEX parameter not supported by network.	UJE35
A6F4	Unable to establish a network link.	UJE35 FI00722
A800	MAXFRAME value in CRTLINETH command too large.	CTPLPDU
A801	Adapter does not support user-configured adapter address	CTPNADR
B000	System log entry only, no service action required	
B001	Automatic recovery has been attempted on the ethernet port This error is logged for information only. No service action is required.	

Table 2. Failing items details

Failing Item	Description	Document Description
AJDG301	Licensed Internal Code	Service Functions; APAR or LICTR
AJDG301	Licensed Internal Code	See the service documentation for instructions.
AJDGP01	I/O card Licensed Internal Code	See the service documentation for instructions.
AJDGP01	I/O card Licensed Internal Code	See the service documentation for instructions.
AJDGP01	I/O card Licensed Internal Code	See the service documentation for instructions.
CTPLPDU	MAXFRAME value in CRTLINETH command	Communications Configuration
CTPNADR	ADPTADR value in CRTLINETH command	Communications Configuration
IOA	Ethernet network adapter card	Repair and Parts; removal and installation procedures
IOP	I/O processor card	See the service documentation for instructions.
UJE35	SSAP value in CRTLINETH command	Communications Configuration

Failing Item	Description	Document Description
UJE35	MAXCTL value in CRTLINETH command	Communications Configuration
UJE35	LINESPEED value in CRTLINETH command	Communications Configuration
UJE35	DUPLEX value in CRTLINETH command	Communications Configuration
UJE36	LANACKFRQ value in CRTCTL____command	Communications Configuration
UJE36	DSAP value in CRTCTL____command	Communications Configuration
UJE39	Remote computer equipment	Communications Configuration
UJE40	Network Termination, Network or Network devices	
USER	User suspected communications problem.	

(B026) Reference codes

This SRC might indicate a communications error.

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (B026) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
A000	I/O card Licensed Internal Code error	FI00730
A001	Input value error in I/O card Licensed Internal Code	FI00730 AJDG301
A002	Input value error in I/O card Licensed Internal Code	FI00730 FI00730
A003	Procedure error in I/O card Licensed Internal Code	FI00730 FI00730
A013	Address error on communications IOP card	IOA
A01B	Input value error in I/O card Licensed Internal Code	AJDG301
A01C	Input value error in I/O card Licensed Internal Code	AJDG301 FI00730
A01D	Input value error in I/O card Licensed Internal Code	AJDG301
A01F	Input value error in I/O card Licensed Internal Code	FI00730 AJDG301
A020	Input value error in I/O card Licensed Internal Code	FI00730
A022	Input value error in I/O card Licensed Internal Code	AJDG301
A027	Input value error in I/O card Licensed Internal Code	FI00730
A028	Input value error in I/O card Licensed Internal Code	FI00730 AJDG301
A02A	Input value error in I/O card Licensed Internal Code	FI00730 FI00730
A02B	I/O card Licensed Internal Code error	FI00730 AJDG301
A02C	Input value error in I/O card Licensed Internal Code	FI00730 AJDG301
A02D	Input value error in I/O card Licensed Internal Code	AJDG301

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
A030	Procedure error in I/O card Licensed Internal Code	FI00730
A201	Communications adapter detected storage access error	FI00730 FI00730
A203 to A204	Input value error in I/O card Licensed Internal Code	AJDG301
A205	Licensed Internal Code received not correct response	FI00730
A206	Input value error in I/O card Licensed Internal Code	AJDG301
A209	Procedure error in I/O card Licensed Internal Code	AJDG301
A20A to A20B	Input value error in I/O card Licensed Internal Code	AJDG301
A20C	Input value error in I/O card Licensed Internal Code	FI00730 AJDG301
A210	Procedure error in I/O card Licensed Internal Code	FI00730
A213	I/O card Licensed Internal Code error	FI00730
A300 to A302	I/O adapter hardware error detected	IOA IOP
A40B	Address error on communications IOP card	IOA
A6C2	I/O card Licensed Internal Code error	AJDG301
A6D4	Procedure error in I/O card Licensed Internal Code	AJDG301
A6D5	Input value error in I/O card Licensed Internal Code	AJDG301
A6D6	Adapter card detected not valid data	AJDG301
A6D7	Adapter card detected not valid data	FI00730
A710	I/O adapter hardware error detected	IOA
FFFF	User suspected communications problem.	USER

Table 2. Failing items details

Failing Item	Description	Document Description
AJDG301	Licensed Internal Code	See the service documentation for instructions.
IOA	Communications adapter card	See the service documentation for instructions.
IOP	Communications I/O processor card	See the service documentation for instructions.
UJ9GC	configuration	See the service documentation for instructions.
UJ9GF	External devices or network	See the service documentation for instructions.
USER	User suspected communications problem.	See the service documentation for instructions.

(B028) Reference codes

This SRC might indicate a communications error.

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (B028) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1200	Communications controller task ended abnormally; type 1	FI00730
1201	Communications controller task ended abnormally; type 2	FI00730

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1202	Communications controller task ended abnormally; type 3	FI00730
1701	Disconnect mode frame received	UJ0E9
1702	Disconnect mode frame received during link activation	UJ0E3
1703	Disconnect mode frame received when transmitting information	UJ0E3 FI00730
1704	Frame reject type W received	FI00730 UJ0E3
1705	Frame reject type X received	FI00730 UJ0E3
1706	Frame reject type Y received	FI00730 UJJ35
1707	Frame reject type Z received	FI00730 UJ0E3
1708	Frame reject type W sent	UJ0E3 FI00730
1709	Frame reject type X sent	UJ0E3 FI00730
170A	Frame reject type Y sent	UJJ35 UJ0E3
170B	Frame reject type Z sent	FI00730 UJ0E3
170C	Frame retry limit reached	UJ0E9 FI00701 FI00704 UJJ35
170D	Set-asynchronous-balance-mode frame received in data mode	FI00730 UJ0E3
170E	Wrong response received from remote equipment	UJJ35 UJ0E3 FI00700
2651	First call failed, retrying call; no CFI from modem	UJE34 UJJ35 FI00704 FI00701
2652	First call failed, retrying call; CFI AB from modem	UJ0E3 FI00704 UJA35
2653	First call failed, retrying call; CFI DE from modem	UJ0E3 FI00704
2654	First call failed, retrying call; CFI ET from modem	UJ0E3 UJA35
2656	First call failed, retrying call; CFI NT from modem	UJ0E3 FI00705 UJA35
2657	First call failed, retrying call; CFI RT from modem	UJ0E3 UJA35
2660	Call failed, retrying call; Non-standard CFI from modem	UJ0E3 FI00704
450A	Incorrect command value sent by Licensed Internal Code	AJDG301

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
4590	Wrong telephone number specified in system configuration	UJA35 FI00751
4592	No number specified in controller description	UJA35 FI00751
4594	Wrong telephone number specified in system configuration	UJA35 FI00751
5000	Wrong command received by communications controller	FI00751
5002	Wrong procedure followed by I/O card Licensed Internal Code	FI00751
5008	Procedure error in Licensed Internal Code	UJE34
5009, 500B to 500C	Wrong command value received by communications IOP	FI00751
500D	Wrong data length received by communications controller	FI00751 UJJ35
500E to 500F	Wrong command value received by communications IOP	FI00751
5010	Wrong reset option received by communications controller	FI00751 FI00730
5011	Wrong command value received by communications IOP	FI00751 FI00730
5012	Wrong session ID received by communications controller	FI00751 FI00730
5014	Wrong command value received by communications IOP	FI00751 FI00730
5015	Communications line already in use	FI00751 FI00730
5016	Wrong command value received by communications IOP	FI00751 FI00730
5017	Wrong storage value received by communications controller	FI00751 FI00730
5018	Wrong trace type received by communications controller	FI00751 FI00730
5019	Wrong trace length received by communications controller	FI00751 FI00730
501A	Communications controller temporary storage area too small	FI00751
501B	Wrong ID length value sent by vertical LIC	FI00751
501C, 501E to 501F	Wrong command value received by communications IOP	FI00730
5022	Port already in use	FI00751 FI00730
5023	Procedure error in Licensed Internal Code	FI00751
5024	DTE/DCE role negotiation not valid for leased line	FI00751
50E0	Wrong or no external communications cable installed	UJJ35 UJJ35 UJJ35 FI00701 IOA
50E1	Port already in use	UJJ35 UJJ35 FI00730

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
50E3	Wrong command value sent by OS/400 licensed program	AJDG301 UJJ35
50E4	Wrong command value sent by OS/400 licensed program	AJDG301
50E5	Wrong adapter type value sent by Licensed Internal Code	FI00751 UJJ35 UJJ35 UJJ35
50E6	Wrong slot number value sent by Licensed Internal Code	FI00751 UJJ35
50E7	Incorrect command value sent by Licensed Internal Code	UJJ35 FI00751
50E8 to 50E9, 50EC to 50EE	Wrong command value sent by OS/400 licensed program	AJDG301
50F1	Communications adapter card not installed	AJDG301 UJJ35 IOA
50F2	V.25 adapter not installed	UJJ35 FI00702 IOA
50F5	Network uncontrolled-not-ready warning; information only	UJE34
50F6	Network controlled-not-ready warning; information only	UJE34
50F7	Data-set-ready changed to not active; for information only	UJE34
5203	I/O card Licensed Internal Code resource not available	FI00730
5206	Communications controller storage not available	FI00730
52E0	Incorrect command used by I/O card Licensed Internal Code	FI00730
52E1	Wrong procedure followed by I/O card Licensed Internal Code	FI00730
52E2	I/O card Licensed Internal Code resource not available	FI00730 UJJ35 UJJ35
52E3	Wrong response sent by I/O card Licensed Internal Code	FI00730
52E4	Wrong command value sent by OS/400 licensed program	AJDG301
52E5	Wrong command value received by communications IOP	FI00730
52E7	X.21 network not in the ready or receive-data state	FI00704 IOA FI00701
52E8	Error when releasing communications controller storage	FI00730
52E9	Error when assigning communications controller storage	FI00730
52EA	I/O card Licensed Internal Code error	FI00730
5301	Adapter card receive error	IOA
5302	Adapter card transmit error	IOA
5401	Communications IOP interrupt not expected	IOA
5410	Data-set-ready error on modem interface	FI00704 FI00702 IOA

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5472	Data-line-occupied initially 'on' error	FI00702 FI00703 UJ0E3 IOA
5474	Automatic call unit has data-line-occupied error	FI00702 FI00703 UJ0E3 IOA
5476	Automatic call unit has present-next-digit error	FI00703 FI00702 IOA
54E1	Port not operational	IOA UJJ35
5600	Clear-to-send off; error limit per 256 reached	FI00704
5601	Data-set-ready state changed; error limit per 256 reached	FI00704
5602	Clear-to-send state changed; error limit per 256 reached	FI00704
5603	Carrier-detect state changed; error limit per 256 reached	FI00701 FI00704 FI00705 UJ0E3
560B	Data-set-ready error; error limit per 256 reached	FI00701 FI00704 UJ0E3 FI00705
5630	Automatic call unit has distant-station-connected error	FI00700 UJ0E3 UJJ35 FI00701 IOA
5632	Automatic call unit has data-set-ready error	FI00700 UJA35 UJJ35 UJJ35 FI00703 FI00701 IOA UJ0E3
5651	Call failed, no Call Failure Indication from modem	UJE34 UJJ35 FI00704 FI00701
56E8	Clear-to-send not active on modem interface	UJ0E3 FI00704 UJJ35 FI00701 IOA
56E9	Clear-to-send signal failed to drop on modem interface	FI00704 IOA FI00701 AJDG301

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
56EA	Clear-to-send signal dropped on modem interface	UJ0E3 FI00704 UJJ35 IOA FI00701
56EB	Carrier-detect dropped on modem interface	FI00701 FI00704 FI00705 UJ0E3 IOA
56EC	Data-set-ready signal turn-off time-out	FI00704 UJJ35 FI00701 IOA
56ED	Data-set-ready signal turn-on time-out	FI00704 IOA FI00701 AJDG301
56F1	Data-set-ready dropped on modem interface	FI00704 FI00705 UJ0E3 FI00701 IOA
5718	SABM response or UA command received	UJJ35 UJ0E3
5719	Protocol mismatch during link initialization	UJA35 FI00700 UJ0E3
5721	Could not send frame to remote equipment; local problem	FI00704 AJDG301 FI00701 IOA
57E0	Frame check error; error limit per 256 reached	UJ0E3 FI00705 FI00704
57E1	Overrun error; error limit per 256 reached	FI00751 UJJ35 UJJ35
57E2	Short frame error; error limit per 256 reached	FI00700 FI00751 FI00705 FI00704 UJ0E3
57E3	Abnormal end received; error limit per 256 reached	FI00751 FI00700 FI00705 FI00704 UJ0E3
57E4	Underrun threshold error; limit per 256 reached	IOA
57E5	Long frame; error limit per 256 reached	UJJ35 FI00751 FI00700

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
57F0	Send sequence counter error; error limit per 256 reached	FI00751 FI00701 FI00704 UJ0E3
57F1	Receive sequence counter error; error limit per 256 reached	FI00751 FI00700
57F2	Response time-out error; error limit per 256 reached	FI00700 UJ0E3 FI00751 FI00704 UJJ35 FI00705 AJDG301
5886	Automatic call unit switched link time-out; no answer	FI00703 IOA FI00702 UJ0E3
5E01	Call error; incoming call received during outgoing call	UJ0E3
6320	Automatic call unit has abandon-call attempt	FI00700 UJA35 FI00703 IOA FI00702
6322	Abandon call retry error; incorrect number length	UJA35 FI00703
6870	Automatic call unit power turned off	FI00703 FI00702 IOA
8011	IOP activation failed. The MDMCNTRYID parameter in Network Attributes is not set. Use the CHGNETA command to set MDMCNTRYID.	UJE34
8013	IOP activation failed. The MDMCNTRYID parameter in Network Attributes is not valid for this adapter. Use the CHGNETA command to change the MDMCNTRYID value.	UJE34
8020	User suspected communications problem.	
D230	ISDN channel hardware not operational	74F1624 FI00730
DA00	The I/O card LIC detected an internal error	FI00730
DA01	The I/O card LIC detected an internal error	FI00730 IOA
FFFF	User suspected communications problem.	USER

Table 2. Failing items details

Failing Item	Description	Document Description
74F1624	ISDN channel hardware	Repair and Parts; removal and installation procedures
AJDG301	Licensed Internal Code	See the service documentation for instructions.

Failing Item	Description	Document Description
IOA	Communications adapter card	Repair and Parts; removal and installation procedures
IOP	Communications I/O processor card	Repair and Parts; removal and installation procedures
UJ0E3	Communications network equipment	
UJ0E9	Communications network equipment	
UJA35	CNNNBR value in CRTLINX25__command	Communications Configuration
UJE34	Configuration or OS/400 licensed program	Communications Configuration
UJE34	No failure found	Communications Configuration
UJJ35	MAXPKTSIZE in CRTLINX25 command	Communications Configuration
UJJ35	ACRSRCNAME value in CRTLINX25 command	Communications Configuration
UJJ35	FRAMERTY value in CRTLINX25 command	Communications Configuration
UJJ35	X25DCE value in CRTLINX25 command	Communications Configuration
UJJ35	DSRDRPTMR value in the CRTLINX25 command	Communications Configuration
UJJ35	INTERFACE value in CRTLINX25 command	Communications Configuration
UJJ35	DFTWDWSIZE value in CRTLINX25 command	Communications Configuration
UJJ35	RMTANSTMR value in the CRTLINX25 command	Communications Configuration
UJJ35	IDLTM value in CRTLINX25 command	Communications Configuration
UJJ35	RSRCNAME value in CRTLINX25 command	Communications Configuration
UJJ35	DIALRTY value in CRTCTL__command	Communications Configuration
UJJ35	CTSTMR value in CRTLINX25 command	Communications Configuration
USER	User suspected communications problem.	

(B030) Reference codes

This SRC might indicate a communications error.

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (B030) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1FFF	Severe error detected by I/O card Licensed Internal Code	FI00730 FI00731
A000	Input value error in I/O card Licensed Internal Code	FI00730
A001	Input value error in I/O card Licensed Internal Code	FI00730 AJDG301
A013	Wrong config data given to local area network controller	AJDG301
A02C	Input value error in I/O card Licensed Internal Code	FI00730 AJDG301
A205	I/O card Licensed Internal Code received unexpected response	FI00730
E000	An undesirable connection attempt on PORT A has been made	FI00701

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E001	An undesirable connection attempt on PORT B has been made	FI00701
E00A	Station has entered a wrapped configuration	FI00701 FI00731 GW8DNET
E00F	Station has recovered from a wrapped configuration	GW8TEMP
E010	One of the internal data path configurations failed	FI00731
E011	Optical bypass switch is stuck in bypassed position	FI00735 FI00731
E012	Link Confidence Test failed on PORT A	FI00701 GW8DNET FI00731
E013	Link Confidence Test failed on PORT B	FI00701 GW8DNET FI00731
E016	Physical connection mgmt for PORT A was not able to proceed	FI00731 GW8DNET
E017	Physical connection mgmt for PORT B was not able to proceed	FI00731 GW8DNET
E018	PORT A link has been terminated due to high error rate	FI00701 GW8DNET FI00731
E019	PORT B link has been terminated due to high error rate	FI00701 GW8DNET FI00731
E01A	Active port has switched from primary to backup connection	FI00701 FI00731 GW8DNET
FFFF	User suspected communications problem.	UW8UPPR

Table 2. Failing items details

Failing Item	Description	Document Description
AJDG301	OPSP OS/400 Licensed Internal Code	Service Functions; APAR or LICTR
GW8DNET	Distributed Data Interface Network	
GW8TEMP	No failure found	
UW8UPPR	User suspected communications problem.	

(B038) Reference codes

This SRC might indicate a communications error.

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (B038) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
7000	Licensed Internal Code sent an incorrect command	FI00751 FI00730

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
7002	Licensed Internal Code sent incorrect command values	FI00751 FI00730
7004	Licensed Internal Code sent commands in wrong order	FI00751 FI00730
7006, 7008	Licensed Internal Code sent incorrect command values	FI00751 FI00730
700C	Licensed Internal Code sent commands in wrong order	FI00751 FI00730
700F	Communications controller storage not available	FI00751 FI00730
7010	Licensed Internal Code sent commands in wrong order	FI00751 FI00730
7012	I/O card LIC followed incorrect procedure	FI00730
7014	Licensed Internal Code sent commands in wrong order	FI00751 FI00730
7018	Configuration exceeds allowed maximum for X.25 lines	UJJ39
701A, 701C	Wrong command value sent by OS/400 licensed program	AJDG301 FI00730
701E	Wrong command value sent by OS/400 licensed program	UJJ36 FI00730
7020	Licensed Internal Code sent incorrect command values	FI00751 FI00730
7024	No logical link available for packet network	UJE38 FI00751
7028	No outgoing or two-way logical link available	UJE38 FI00751
702C	Remote station not connected This reference code usually identifies a condition that is due to a timing problem that will be recovered.	UJJ37 FI00751
7030	Logical link already disconnected This reference code usually identifies a condition that is due to a timing problem that will be recovered.	UJJ37 FI00751
7048 to 704A, 704C	Licensed Internal Code sent incorrect command values	FI00751 FI00730
7050	Licensed Internal Code sent commands in wrong order	FI00751 FI00730
7054	Vertical Licensed Internal Code sent wrong password length	FI00751 FI00730
7056, 7058, 705C	Licensed Internal Code sent incorrect command values	FI00751 FI00730
7064	Vertical Licensed Internal Code sent wrong data length	FI00751 FI00730
707C	Licensed Internal Code sent incorrect command values	FI00751
7080	Licensed Internal Code sent an incorrect command	FI00751 FI00730
7084	Number of user requests more than maximum allowed	FI00751 FI00730

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
7090	I/O card LIC followed incorrect procedure	FI00751 FI00730
7092	Licensed Internal Code sent incorrect command values	UJJ38 FI00751 FI00730
7094	Licensed Internal Code sent incorrect command values	FI00751 FI00730
728C	Licensed Internal Code sent incorrect command values	FI00730
72F0	I/O card Licensed Internal Code ended abnormally	FI00730
72F2	I/O card Licensed Internal Code stopped because of error	FI00730
7718	Network procedure error detected by Licensed Internal Code	UJ0E2 UJJ36 UJJ36
7740	Remote system sent disconnect command	UJ0E2
7744	Remote system sent disconnect mode frame	UJ0E2
7768	Remote system did not respond to command sent	UJJ36 UJ0E2
776C	Remote system did not respond to command sent	UJ0E2 UJJ36 UJJ36
7770	Remote system did not respond to disconnect command	UJJ36 UJ0E2
7774	Remote system did not verify receiving data	UJJ36 UJ0E2
7788	Call rejected; wrong value from remote system	UJ0E6 UJJ37
7794	Expected password not provided by remote system	UJ0E2
7798	Remote system did not respond to test command	UJ0E2 UJJ36 UJJ36
77A0	Checksum error; error limit per 256 reached	UJ0E2 UJ0E9 FI00730
77A2	Bad data sent; error limit per 256 reached	UJ0E9
77A4	Bad data received; error limit per 256 reached	UJ0E9 UJJ35
77A6	Remote system not ready; error limit per 256 reached	UJ0E2 UJ0E9 UJJ35
7800	Licensed Internal Code sent an incorrect command	FI00751 FI00730
7802	Licensed Internal Code sent incorrect command values	FI00751 FI00730
7804	Licensed Internal Code sent commands in wrong order	FI00751 FI00730
7806, 7808	Licensed Internal Code sent incorrect command values	FI00751 FI00730
780C	Licensed Internal Code sent commands in wrong order	FI00751

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
7810	Licensed Internal Code sent commands in wrong order	FI00751 FI00730
7812	Procedure error in Licensed Internal Code	FI00751
7820	Too many logical channels defined	UJJ36 FI00730
7824	Outgoing and two-way logical channel not available This reference code usually identifies a condition that is due to a timing problem that will be recovered.	UJJ37 FI00751 FI00730
7828	Licensed Internal Code sent incorrect command values	FI00751 FI00730
782C	Licensed Internal Code sent commands in wrong order	FI00751 FI00730
7840, 7842, 7844	Licensed Internal Code sent incorrect command values	AJDG301 FI00730
7846	Communications controller storage not available	FI00751 FI00730
784C to 784E, 7850, 7854	Licensed Internal Code sent incorrect command values	FI00751 FI00730
7857	Licensed Internal Code sent incorrect command values	AJDG301 FI00730
7858	Licensed Internal Code sent incorrect command values	FI00751 FI00730
785A	Application sent not valid Q/M bit request sequence	UJ0E6 AJDG301 FI00730
785C	Licensed Internal Code sent incorrect command values	FI00751 FI00730
7860	Licensed Internal Code sent incorrect command values	UJJ38
7864	Licensed Internal Code sent incorrect command values	UJJ38 FI00751 FI00730
7868, 786C, 7870	Licensed Internal Code sent incorrect command values	FI00751 FI00730
7872	Wrong command value sent by OS/400 licensed program	AJDG301 FI00730
7874	Licensed Internal Code sent incorrect command values	FI00751 FI00730
7876	Wrong command value sent by OS/400 licensed program	AJDG301 FI00730
7878	Licensed Internal Code sent incorrect command values	FI00751 FI00730
787A	PLC/HDLC DTE/DCE mode configured not valid	FI00751 FI00730
787C	Licensed Internal Code sent incorrect command values	FI00751 FI00730
7884, 7888	Procedure error in Licensed Internal Code	FI00751 FI00730

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
788C	Licensed Internal Code sent commands in wrong order This reference code usually identifies a condition that is due to a timing problem that will be recovered.	UJJ37 FI00751 IOA FI00701
7894	Procedure error in Licensed Internal Code	FI00751 FI00730
7898	Licensed Internal Code sent commands in wrong order	FI00751 FI00730
78A0	No incoming call available to be processed This reference code usually identifies a condition that is due to a timing problem that will be recovered.	UJJ37 FI00730
78A4	I/O card Licensed Internal Code used incorrect value	FI00751 FI00730
78A6	Licensed Internal Code sent incorrect command values	FI00751 FI00730
7A90	I/O card Licensed Internal Code used incorrect value	FI00730
7AF0	I/O card Licensed Internal Code stopped because of error	FI00730
7AF4	I/O card Licensed Internal Code stopped because of error	FI00751 FI00730
7F14	Reset packet received	UJ0E9 UJ0E2 UJJ36 UJJ35 UJJ35
7F18	Clear packet received	UJ0E9 UJJ39 UJ0E2 UJJ36 FI00751
7F1C	X.25 restart packet received	UJ0E9 UJJ36
7F30	X.25 reset request packet sent	UJJ36 UJ0E9
7F34	X.25 clear request packet sent	UJJ36 UJ0E9
7F35	X.25 clear packet sent, packet size negotiation failed	UJ0E9 UJJ35
7F36	X.25 clear packet sent, window size negotiation failed	UJ0E9 UJJ35
7F38	X.25 restart request packet sent	UJ0E9 UJJ36
7F3A	X.25 restart negotiation failed	UJ0E9 UJJ39
7F3C	Time-out on restart packet	UJ0E9
7F40	Time-out on reset packet	UJ0E9 UJJ36
7F44	Time-out on call packet	UJ0E9 UJJ36

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
7F48	Time-out on clear packet	UJ0E9 UJJ36
7F80	Packet network used wrong procedures	UJ0E9 UJA36
7FA8	Received packet to help diagnosis	UJ0E9 FI00730
7FB0	Restart packet sent; error limit per 256 reached	UJ0E9
7FB1	Reset packet received; error limit per 256 reached	UJ0E9 UJ0E2 UJJ36 UJJ35 UJJ35

Table 2. Failing items details

Failing Item	Description	Document Description
AJDG301	Licensed Internal Code	See the service documentation for instructions.
IOA	Communications adapter card	Repair and Parts; removal and installation procedures
UJ0E2	Remote computer equipment	
UJ0E6	Application program controlling the station	
UJ0E6	Remote computer equipment	
UJ0E9	X.25 network or directly attached data terminal equipment	
UJA36	MODULUS value in CRTLINX25 command	Communications Configuration
UJE38	Too many logical links defined	Communications Configuration
UJJ35	THRESHOLD value in CRTLINX25 command	Communications Configuration
UJJ35	DFTPFSIZE value in CRTLINX25 command	Communications Configuration
UJJ35	DFTWDWSIZE value in CRTLINX25 command	Communications Configuration
UJJ36	X25CNNTMR value in CRTCTL____command	Communications Configuration
UJJ36	USRGRPID value in CRTCTL____command	Communications Configuration
UJJ36	LGLCHLE value in CRTLINX25 command	Communications Configuration
UJJ36	LINKPCL value in CRTCTL____command	Communications Configuration
UJJ36	X25RSPTMR value in CRTCTL____command	Communications Configuration
UJJ37	No error found	Communications Configuration
UJJ38	User specified X.25 parameters	Communications Configuration
UJJ39	Local X.25 system configuration	Communications Configuration

(B040) Reference codes

This SRC might indicate a communications error.

Find the unit reference code in the following table. For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (B040) Reference codes

B040

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
501C, 501E	Command value error in I/O card Licensed Internal Code	FI00730
50E0	Wrong or no external communications cable installed	UJA34 UJA34 FI00701 IOA
50E1	Communications line already in use	AJDG301 UJA34 UJA34
50E3 to 50E4	Wrong command value sent by OS/400 licensed program	AJDG301 UJA34
50E5	Incorrect command value sent by Licensed Internal Code	AJDG301 UJA34 UJA34 UJA34
50E6 to 50E7	Incorrect command value sent by Licensed Internal Code	AJDG301 FI00730 UJA34 UJA34
50E8	Wrong command value sent by OS/400 licensed program	AJDG301
50E9, 50EB	Incorrect command value sent by Licensed Internal Code	AJDG301 UJA34
50EC to 50ED	Wrong command value sent by OS/400 licensed program	AJDG301
50EE	Incorrect command value sent by Licensed Internal Code	AJDG301
50F1	Communications line not installed	AJDG301 UJA34 IOA
50F5	Network uncontrolled-not-ready warning; information only	UJA34
50F6	Network controlled-not-ready warning; information only	UJA34
50F8	Adapter card transmit error	IOA FI00704
5203	I/O card Licensed Internal Code resource not available	FI00730
52E0	Incorrect command used by I/O card Licensed Internal Code	FI00730
52E1	Wrong procedure used in I/O card Licensed Internal Code	FI00730
52E2	I/O card Licensed Internal Code resource not available	UJA33 UJA34 UJA34
52E4	Wrong command value sent by OS/400 licensed program	AJDG301 UJA34
52E7	X.21 network not in the ready or receive-data state	FI00704 UJ0E3 FI00701 IOA
52E8 to 52E9	Command value error in I/O card Licensed Internal Code	FI00730
52EA	I/O card Licensed Internal Code error	FI00730
5301	Adapter card receive error	FI00730 IOA
5302	Adapter card transmit error	FI00730 IOA

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5401	Communications adapter card interrupt not expected	FI00730 IOA
54E1	Communications line not operational	IOA UJA34
56E8	Clear-to-send not active on modem interface	UJ0E3 UJA34 FI00704 FI00701 IOA
56E9	Clear-to-send signal failed to drop on modem interface	FI00704 FI00701 IOA
56EA	Clear-to-send signal dropped on modem interface	UJ0E3 FI00704 UJA34 IOA FI00701
56ED	Data-set-ready turn-on time-out on modem interface	FI00701 FI00704 IOA AJDG301
56F1	Data-set-ready dropped on modem interface	FI00704 FI00701 UJ0E3 IOA
A000	Input value error in I/O card Licensed Internal Code	FI00730
A001	Input value error in I/O card Licensed Internal Code	FI00730 AJDG301
A002	Input value error in I/O card Licensed Internal Code	FI00730
A003	Input value error in I/O card Licensed Internal Code	AJDG301
A00E	Procedure error in Licensed Internal Code	AJDG301
A016	Input value error in I/O card Licensed Internal Code	AJDG301 FI00730
A01B to A01D	Input value error in I/O card Licensed Internal Code	AJDG301
A02D	Input value error in I/O card Licensed Internal Code	AJDG301 FI00730
A201	Frame Relay I/O adapter card storage not available	FI00730
A204	Input value error in I/O card Licensed Internal Code	AJDG301
A205	I/O card Licensed Internal Code received unexpected response	AJDG301
A209 to A20B	Input value error in I/O card Licensed Internal Code	AJDG301
A210	Communications adapter card error	FI00701 IOA
A213	Severe error detected by I/O card Licensed Internal Code	FI00730
A800	Network not responding.	UJ0E3 FI00730
A801	Too many frames with bad receive sequence counts	UJ0E3 FI00730
A807	Network not responding.	UJ0E3

B040

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
AB00 to AB02	Incorrect configuration data for Frame Relay LIC	AJDG301
FFFF	User suspected communications problem.	UJ4UPPR

Table 2. Failing items details

Failing Item	Description	Document Description
AJDG301	Licensed Internal Code	See the service documentation for instructions.
AJDG301	Licensed Internal Code	See the service documentation for instructions.
IOA	Communications adapter card	See the service documentation for instructions.
UJ0E3	Communications network equipment	See the service documentation for instructions.
UJ4UPPR	User perceived problem	
UJA33	Too many communications lines in use	Communications Management
UJA34	MAXFRAME value in CRTNWIFR command	Communications Configuration
UJA34	ACRSRCNAME value in CRTNWIFR command	See the service documentation for instructions.
UJA34	MAXOUT value in CRTNWIFR command	Communications Configuration
UJA34	AUTOANS, AUTODIAL, SWTCNN, CNN values in CRTNWIFR command	See the service documentation for instructions.
UJA34	No failure found	Communications Configuration
UJA34	NRZI value in CRTNWIFR command	Communications Configuration
UJA34	CTSTMR value in CRTNWIFR command	See the service documentation for instructions.
UJA34	RSRCNAME value in the CRTNWIFR command	Communications Configuration
UJA34	SNBU, MODEMRATE, DUPLEX values in CRTNWIFR command	Communications Configuration
UJA34	INTERFACE value in CRTNWIFR command	See the service documentation for instructions.
UJA34	LINESPEED value in CRTNWIFR command	Communications Configuration

(B045) Reference codes

This SRC might indicate a communications error.

Find the unit reference code in the following table.

Table 1. (B045) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0C00	I/O card Licensed Internal Code failed	FI00730

(B070) Reference codes

1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.
2. Find the unit reference code in the following table.

For more on the Failing Item column entries, see Table 2. Failing items details, which follows the reference code table below.

Table 1. (B070) Reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0000	Device no response time-out; temporary error	FI00601 FI00602 FI00610
0001	WS IOP detected error when transmitting data Is the problem intermittent? Yes: Perform the following procedures: 1. INT-PIP5 2. INT-PIP14 No: Perform TWSIP01.	FI00602 FI00601 GAU7777 GAU8888 FI00610 FI00615
0003	WS IOP detected parity error from device Is the problem intermittent? Yes: Perform the following procedures: 1. INT-PIP5 2. INT-PIP14 No: Perform TWSIP01.	FI00602 FI00601 GAU7777 FI00610
0004	Device detected parity error from WS IOP Is the problem intermittent? Yes: Perform the following procedures: 1. INT-PIP5 2. INT-PIP14 No: Perform TWSIP01.	FI00602 FI00601 GAU7777 FI00610
0005	WS IOP detected error when transmitting data Is the problem intermittent? Yes: Perform the following procedures: 1. INT-PIP5 2. INT-PIP14 No: Perform TWSIP01.	FI00602 FI00601 GAU8888 FI00610 FI00615
0006	WS IOP detected wrong data from device Is the problem intermittent? Yes: Perform the following procedures: 1. INT-PIP5 2. INT-PIP14 No: Perform TWSIP01.	FI00601 FI00602 GAU8888 FI00610

B070

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0007	<p>WS IOP detected wrong address from device</p> <p>Is the problem intermittent?</p> <p>Yes: Perform the following procedures:</p> <ol style="list-style-type: none"> 1. INT-PIP5 2. INT-PIP14 <p>No: Perform TWSIP01.</p>	<p>FI00601 GAU8888 GAU7777 FI00610</p>
0008	<p>WS IOP detected device power turned off, and then on</p> <p>Perform TWSIP01.</p>	<p>GAUEEEE FI00601</p>
0009	<p>WS IOP detected wrong device response to start command</p> <p>Perform TWSIP01.</p>	<p>FI00601 FI00610</p>
0020	<p>Device detected wrong command or device ID from WS IOP</p> <p>Perform TWSIP01.</p>	<p>FI00601 AJLYD01 FI00610</p>
0021	<p>Device detected not valid value from WS IOP</p> <p>Perform TWSIP01.</p>	<p>FI00601 AJLYD01 FI00610</p>
0022	<p>Device detected storage or data overrun</p> <p>Perform TWSIP01.</p>	<p>FI00601 AJLYD01 FI00610</p>
0023	<p>Device detected null or attribute exception error</p> <p>Perform TWSIP01.</p>	<p>FI00601 FI00610</p>
0024	<p>Device detected wrong start command from WS IOP</p> <p>Perform TWSIP01.</p>	<p>FI00601 AJLYD01 FI00610</p>
0025	<p>WS IOP detected wrong exception response from device</p> <p>Perform TWSIP01.</p>	<p>FI00601 FI00610</p>
0026	<p>WS IOP detected not valid pass-through command</p> <p>Perform TWSIP01.</p>	<p>GAU9999 FI00610</p>
0049	<p>WS IOP detected wrong request or response from device</p> <p>Perform TWSIP01.</p>	<p>FI00601 FI00610</p>
0082	<p>WS IOP detected wrong device type from device</p> <p>Perform TWSIP01.</p>	<p>FI00601</p>
0090	<p>WS IOP detected no status change from device</p> <p>Perform TWSIP01.</p>	<p>FI00601 FI00610</p>
0091	<p>WS IOP detected busy time-out from device</p> <p>Perform TWSIP01.</p>	<p>FI00601 FI00610</p>
0100	<p>Device no response time-out; temporary error</p>	<p>FI00601 FI00602 FI00610</p>

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0101	<p>WS IOP detected error when transmitting data</p> <p>Is the problem intermittent?</p> <p>Yes: Perform the following procedures:</p> <ol style="list-style-type: none"> 1. INT-PIP5 2. INT-PIP14 <p>No: Perform TWSIP01.</p>	FI00602 FI00601 GAU7777 GAU8888 FI00610 FI00615
0103	<p>WS IOP detected parity error from device</p> <p>Is the problem intermittent?</p> <p>Yes: Perform the following procedures:</p> <ol style="list-style-type: none"> 1. INT-PIP5 2. INT-PIP14 <p>No: Perform TWSIP01.</p>	FI00602 FI00601 GAU7777 FI00610
0104	<p>Device detected parity error from WS IOP</p> <p>Is the problem intermittent?</p> <p>Yes: Perform the following procedures:</p> <ol style="list-style-type: none"> 1. INT-PIP5 2. INT-PIP14 <p>No: Perform TWSIP01.</p>	FI00602 FI00601 GAU7777 FI00610
0105	<p>WS IOP detected error when transmitting data</p> <p>Is the problem intermittent?</p> <p>Yes: Perform the following procedures:</p> <ol style="list-style-type: none"> 1. INT-PIP5 2. INT-PIP14 <p>No: Perform TWSIP01.</p>	FI00602 FI00601 GAU8888 FI00610 FI00615
0106	<p>WS IOP detected wrong data from device</p> <p>Is the problem intermittent?</p> <p>Yes: Perform the following procedures:</p> <ol style="list-style-type: none"> 1. INT-PIP5 2. INT-PIP14 <p>No: Perform TWSIP01.</p>	FI00601 FI00602 GAU8888 FI00610
0107	<p>WS IOP detected wrong address from device</p> <p>Is the problem intermittent?</p> <p>Yes: Perform the following procedures:</p> <ol style="list-style-type: none"> 1. INT-PIP5 2. INT-PIP14 <p>No: Perform TWSIP01.</p>	FI00601 GAU8888 GAU7777 FI00610

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0108	WS IOP detected device power turned off, and then on Perform TWSIP01.	GAUEEEE FI00601
0109	WS IOP detected wrong device response to start command Perform TWSIP01.	FI00601 FI00610
0111	WS IOP detected wrong keyboard scan code from display Perform TWSIP01.	FI00601 AJLYD01 FI00610
0120	Device detected wrong command or device ID from WS IOP Perform TWSIP01.	FI00601 AJLYD01 FI00610
0121	Device detected not valid value from WS IOP Perform TWSIP01.	FI00601 AJLYD01 FI00610
0122	Device detected storage or data overrun Perform TWSIP01.	FI00601 AJLYD01 FI00610
0123	Device detected null or attribute exception error Perform TWSIP01.	FI00601 FI00610
0124	Device detected wrong start command from WS IOP Perform TWSIP01.	FI00601 AJLYD01 FI00610
0125	WS IOP detected wrong exception response from device Perform TWSIP01.	FI00601 FI00610
0126	WS IOP detected not valid pass-through command Perform TWSIP01.	GAU9999 FI00610
0149	WS IOP detected wrong request or response from device Perform TWSIP01.	FI00601 FI00610
0170	WS IOP detected error downloading printer definition table	AJDG301 FI00601
0171	WS IOP detected error downloading printer definition table	FI00601 AJLYD01
0172	WS IOP detected error downloading printer definition table	CAUPDT AJDG301 FI00601
0173	WS IOP detected error downloading printer definition table	CAUPDT FI00601
0174	WS IOP detected error unloading printer definition table	FI00601 AJLYD01
0175	WS IOP detected device configuration error	FI00601 AJLYD01
0176 to 0177	WS IOP detected error downloading LIC to device	GAUDMCC FI00601
0181	Wrong magnetic stripe reader response Perform TWSIP01.	FI00605 MAUFFFF FI00601 FI00610

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0182	WS IOP detected wrong device type from device Perform TWSIP01.	FI00601
0183	WS IOP detected wrong display size value Perform TWSIP01.	FI00601
0184	WS IOP detected wrong keyboard identification Verify that the correct keyboard is attached correctly to the workstation. If the correct keyboard is attached correctly to the workstation, perform TWSIP01.	FI00601
0189	Wrong magnetic stripe reader or light pen status Perform TWSIP01.	FI00601 FI00605 FI00607 FI00610
0190	WS IOP detected no status change from device Is the problem intermittent? Yes: Perform the following procedures: 1. INT-PIP5 2. INT-PIP14 No: Perform TWSIP01.	FI00601 FI00610 GAU7777
0191	WS IOP detected busy time-out from device Perform TWSIP01.	FI00601 FI00610
0200	Device no response time-out; temporary error	FI00604 FI00602 FI00610
0201	WS IOP detected error when transmitting data Is the problem intermittent? Yes: Perform the following procedures: 1. INT-PIP5 2. INT-PIP14 No: Perform TWSIP01.	FI00602 FI00604 GAU7777 GAU8888 FI00610 FI00615
0203	WS IOP detected parity error from device Is the problem intermittent? Yes: Perform the following procedures: 1. INT-PIP5 2. INT-PIP14 No: Perform TWSIP01.	FI00602 FI00604 GAU7777 FI00610

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0204	<p>Device detected parity error from WS IOP</p> <p>Is the problem intermittent?</p> <p>Yes: Perform the following procedures:</p> <ol style="list-style-type: none"> 1. INT-PIP5 2. INT-PIP14 <p>No: Perform TWSIP01.</p>	FI00602 FI00604 GAU7777 FI00610
0205	<p>WS IOP detected error when transmitting data</p> <p>Is the problem intermittent?</p> <p>Yes: Perform the following procedures:</p> <ol style="list-style-type: none"> 1. INT-PIP5 2. INT-PIP14 <p>No: Perform TWSIP01.</p>	FI00602 FI00604 GAU7777 FI00610 FI00615
0206	<p>WS IOP detected wrong data from device</p> <p>Is the problem intermittent?</p> <p>Yes: Perform the following procedures:</p> <ol style="list-style-type: none"> 1. INT-PIP5 2. INT-PIP14 <p>No: Perform TWSIP01.</p>	FI00604 FI00602 GAU8888 FI00610
0207	<p>WS IOP detected wrong address from device</p> <p>Is the problem intermittent?</p> <p>Yes: Perform the following procedures:</p> <ol style="list-style-type: none"> 1. INT-PIP5 2. INT-PIP14 <p>No: Perform TWSIP01.</p>	FI00604 GAU8888 GAU7777 FI00610
0208	<p>WS IOP detected device power turned off, and then on</p>	GAUEEEE FI00604
0209	<p>WS IOP detected wrong device response to start command</p>	FI00604 FI00610
0210	<p>Printer detected equipment error</p>	FI00604
0211	<p>Printer detected equipment error</p>	FI00604 AJLYD01 FI00610
0212	<p>Printer detected equipment error</p>	FI00604
0220	<p>Device detected wrong command or device ID from WS IOP</p>	FI00604 AJLYD01 FI00610
0221	<p>Device detected not valid value from WS IOP</p>	FI00604 AJLYD01 FI00610
0222	<p>Device detected storage or data overrun</p>	FI00604 AJLYD01 FI00610

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0223	WS IOP detected start command to printer was lost	FI00604 FI00602 FI00610
0224	Device detected wrong start command from WS IOP	FI00604 AJLYD01 FI00610
0225	WS IOP detected wrong exception response from device	FI00604 FI00610
0226, 0230 to 0239, 0240 to 0248	Printer detected equipment error	FI00604
0249	WS IOP detected wrong request or response from device	FI00604 FI00610
026X, 027X, 028X	Printer detected equipment error See printer documentation for more information.	FI00604
0290	WS IOP detected no status change from device	FI00604 FI00610
0291	WS IOP detected busy time-out from device	FI00604 FI00610
02A0 to 02AF, 02FF	Printer detected equipment error Consult the printer's manual for additional information.	FI00604
A000	Too many devices active on the workstation IOP This error occurs if you attempted to activate more workstations than allowed. Switch off power to (or remove) one or more of the display stations (except for the console) that are attached to this workstation I/O processor. Perform an initial program load (IPL) from the control panel to correct the problem. Refer to the local workstation diagrams for the location of workstations if necessary.	GAUBBBB
B000	WS IOP fails to report part, model and serial number Perform TWSIP01.	FI00610
C000	WS IOP error not known	AJLYD01 FI00610
D000	Work Station IOA start-up test error	FI00610
D010	WS IOP storage failure corrected Perform TWSIP01.	FI00610
D011	WS IOP card storage failure	FI00610
D021	WS IOP detected errors on all cables	FI00602 FI00601 FI00610 FI00615
D022	WS IOP parity errors detected on all cables	FI00602 FI00601 FI00610 FI00615

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
D023	WS IOP detected errors on some, but not all cables Perform TWSIP01.	FI00602 FI00601 FI00610
E000	WS IOP or IOA error during working operation	AJLYD01 FI00610
F000	WS IOP or IOA operating system program error	AJLYD01 FI00719

Table 2. Failing items details

Failing Item	Description	Document Description
AJDG301	OS/400 licensed program	Service Functions; APAR or LICTR
AJDGP01	LIC - Input/Output Processor Licensed Internal Code	Service Functions; APAR or LICTR
AJLYD01	Work Station IOP or IOA system Licensed Internal Code	Service Functions; APAR or LICTR
CAUPDT	Device Licensed Internal Code change	Communications Configuration
GAU7777	Electrical interference	
GAU8888	Other work station on port is failing	
GAU9999	Error occurred with pass-through command	
GAUBBBB	Too many work stations are active on the workstation IOP	
GAUDMCC	Device Licensed Internal Code change	
GAUEEEE	Active device turned off	
MAUFFFF	Magnetic stripe	Refer to I/O device service information
UAUFF00	User suspected problem.	

(B075) Workstation adapter console reference codes

The workstation adapter console detected a failure.

1. Look at characters 5 through 8 of the top 16 character line of function 11 (4 rightmost characters of word 1). These 4 characters are the unit reference code.
2. Find the unit reference code in the following table.

For more on the Failing Item column entries, see Table 2. Workstation adapter console failing items details, which follows the reference code table below.

Table 1. (B075) Workstation adapter console reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0101	WS IOP detected error when transmitting data Perform WSCIP01.	FI00601 GXC7777 FI00631 FI00730
0103	WS IOP detected parity error from device Perform WSCIP01.	FI00601 GXC7777 FI00631 FI00730

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0104	Device detected parity error from WS IOP Perform WSCIP01.	FI00601 GXC7777 FI00631 FI00730
0105	WS IOP detected error when transmitting data Perform WSCIP01.	FI00601 GXC7777 FI00631 FI00730
0106	WS IOP detected wrong data from device Perform WSCIP01.	FI00601 FI00631 GXC7777 FI00730
0107	WS IOP detected wrong address from device Perform WSCIP01.	FI00601 GXC7777 FI00730
0108	WS IOP detected device power turned off, and then on Perform WSCIP01.	GXCEEEE FI00601
0109	WS IOP detected wrong device response to start command Perform WSCIP01.	FI00601 FI00615
0111	WS IOP detected wrong keyboard scan code from display Perform WSCIP01.	FI00601 FI00730
0120	Device detected wrong command or device ID from WS IOP Perform WSCIP01.	FI00601 FI00730
0121	Device detected not valid value from WS IOP Perform WSCIP01.	FI00601 FI00730
0122	Device detected storage or data overrun Perform WSCIP01.	FI00601 FI00730
0123	Device detected null or attribute exception error Perform WSCIP01.	FI00601 FI00730
0124	Device detected wrong start command from WS IOP Perform WSCIP01.	FI00601 FI00730
0125	WS IOP detected wrong exception response from device Perform WSCIP01.	FI00601 FI00730
0126	WS IOP detected not valid pass-through command Perform WSCIP01.	GXC9999 FI00730
0149	WS IOP detected wrong request or response from device Perform WSCIP01.	FI00601 FI00730
0190	WS IOP detected no status change from device Perform WSCIP01.	FI00601 GXC7777 FI00730
0191	WS IOP detected busy time-out from device Perform WSCIP01.	FI00601 FI00730

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0201	WS IOP detected error when transmitting data Perform WSCIP01.	FI00604 GXC7777 FI00631 FI00730
0203	WS IOP detected parity error from device Perform WSCIP01.	FI00604 GXC7777 FI00631 FI00730
0204	Device detected parity error from WS IOP Perform WSCIP01.	FI00604 GXC7777 FI00631 FI00730
0205	WS IOP detected error when transmitting data Perform WSCIP01.	FI00604 GXC7777 FI00631 FI00730
0206	WS IOP detected wrong data from device Perform WSCIP01.	FI00604 FI00631 FI00730
0207	WS IOP detected wrong address from device Perform WSCIP01.	FI00604 GXC7777 FI00730
0208	WS IOP detected device power turned off, and then on	GXCEEEE FI00604
0209	WS IOP detected wrong device response to start command	FI00604 FI00730
0211	Printer detected equipment error	FI00604 FI00730
0221	Device detected not valid value from WS IOP	FI00604 FI00730
0224	Device detected wrong start command from WS IOP	FI00604 FI00730
0225	WS IOP detected wrong exception response from device	FI00604 FI00730
0290	WS IOP detected no status change from device	FI00604 FI00730
0291	WS IOP detected busy time-out from device	FI00604 FI00730
5000	Wrong command sent by Licensed Internal Code	AJDG301
5001	Procedure error in Licensed Internal Code	AJDG301
5002	Procedure error in Licensed Internal Code Procedure error in machine instructions	CXCTEMP AJDG301
5006	Procedure error in Licensed Internal Code	AJDG301
5007	Procedure error in Licensed Internal Code	AJDG301 CXCMTA
5009	Incorrect command value sent by Licensed Internal Code	AJDG301
500A	Procedure error in Licensed Internal Code	AJDG301

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
500D	Incorrect command value sent by Licensed Internal Code	AJDG301 CXCMAXI
5022	Procedure error in Licensed Internal Code	AJDG301
5206	Communications controller storage not available	CXCBUSY
56EA	Clear-to-send signal dropped on modem interface	GXCLINK FI00704 CXCCTSV FI00719 FI00701
56ED	Data-set-ready turn-on time-out on modem interface	FI00701 FI00704 FI00719 AJLAG01
56F1	Data-set-ready dropped on modem interface	FI00704 FI00701 GXCLINK FI00719
5710	Nonproductive receive time-out while receiving from remote	CXCNPRT FI00700 FI00705 FI00704 GXCLINK FI00701 FI00719
5712	No data received from remote equipment; time-out	AJLAG01 CXCENCD CXCINAT GXCLINK FI00704 FI00705 FI00700 CXCSTAD FI00701 CXCDTAR FI00719 CXCMRTY
5715	Remote equipment did not respond causing an idle-time-out	GXCLINK CXCRPTO FI00701 FI00704 CXCMRTY FI00705 CXCENCD FI00700 CXCDTAR FI00719
5718	Retry limit reached for sending frames to remote equipment	GXCLINK FI00705 FI00704 FI00700 CXCMRTY FI00719 FI00701
5719	Retry limit reached for sending frames to remote equipment	FI00700

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5720	Retry limit reached for sending poll frame to remote	FI00700 CXCMODU
5721	Could not send frame to remote equipment; local problem	FI00704 CXCDTAR FI00701 FI00719 FI00730
5722	Wrong command value sent by OS/400 licensed program	AJLAG01 CXCSTAD
A000	Too many devices active on the workstation IOP	GXCBBBB
B000	WS IOP fails to report part, model and serial number Perform WSCIP01.	FI00615
C000, D000	WS IOP error not known	AJLAG01
D001	Wrong or no external communications cable installed	FI00631 AJLAG01
F003	WS IOA buffer utilization threshold exceeded temporarily	AJLAG01
FFFF	User believes there is a problem Reference code FFFF is assigned by the ANZPRB (Analyze Problems) for user-detected errors. Run ANZPRB again if the problem still exists or look in the problem log (WRKPRB) for possible failing FRUs.	UXCFF00

Table 2. Workstation adapter console failing items details

Failing Item	Description	Document Description
AJDG301	Vertical Licensed Internal Code	Service Functions; APAR or LICTR
AJLAG01	Licensed Internal Code	Service Functions; APAR or LICTR
CXCBUSY	Too many communications lines in use	Communications Configuration
CXCCONF	Configuration or OS/400 licensed program	Communications Configuration
CXCCPTO	CNNPOLLTMR value in CRTLINS DLC command	Communications Configuration
CXCCTSV	CTSTMR value in CRTLINS DLC command	Communications Configuration
CXC DTAR	LINESPEED value in CRTLINS DLC command	Communications Configuration
CXCENCD	NRZI value in CRTLINS DLC command	Communications Configuration
CXCINAT	INACTTMR value in CRTLINS DLC command	Communications Configuration
CXC MAXI	MAXFRAME value in CRTLINS DLC command	Communications Configuration
CXC MODU	MODULUS value in CRTLINS DLC command	Communications Configuration
CXC MRTY	FRAMERTY value in CRTLINS DLC command	Communications Configuration
CXC MSTA	MAXCTL value in CRTLINS DLC command	Communications Configuration
CXC NPRT	NPRDRCVTMR value in CRTLINS DLC command	Communications Configuration
CXC RP TO	IDLTMR value in CRTLINS DLC command	Communications Configuration
CXC S NDT	SHMNODE value in CRTLINS DLC command	Communications Configuration
CXC STAD	STNADR value in CRTCTL____command	Communications Configuration
CXC TEMP	No failure found	Communications Configuration

Failing Item	Description	Document Description
GXC7777	Electrical interference	
GXC8888	Other workstation on port is failing	
GXC9999	Error occurred with pass-through command	
GXCBBBB	Too many devices are active on the workstation IOP	
GXCCEEEE	Active device turned off	
GXCCLINK	Communications network equipment	
UXCFF00	User suspected problem	

(B1xx) Service processor firmware reference codes

A B1xx reference code indicates that an event or exception occurred in service processor firmware. To resolve any B1xx reference code, determine if the SRC requires a service action or if it is for tracking purposes only.

Diagnostics analyze an event when it occurs to determine if the event requires service or if the event will only be recorded for tracking purposes and future reference. The determination is based on machine type, model, installed features, configuration, topology and activations at the time of the event. If you do **not** find the SRC in a serviceable event view then it is a tracking event only and does not require service. Tracking events appear as "informational" or "Misc." or "temp" in the i5/OS Product Activity log and the Advanced System Manage Interface (ASMI). Serviceable event views are the AIX Diagnostics Results Log, the i5/OS Problem Log, the i5/OS Service Action Log (SAL), the HMC Service Focal Point, the Integrated Virtualization Manager Service Focal Point, the Linux Diagnostic Messages Log, the system control panel, or ASMI listed under serviceable events.

See "(B1xx) Service processor firmware reference code descriptions" on page 378 for a description of the SRC.

Determine whether service action is needed or not, it is based upon where to work with the B1xx SRC:

1. Is the system managed by an HMC?

Yes: HMC. See "Hardware Management Console (HMC)" on page 378 in the following table.

No: Continue.

2. Is the system console available?

Yes:

– For AIX see "AIX" on page 378 in the following table.

– For Linux see "Linux" on page 378 in the following table.

– For i5/OS see "i5/OS" on page 378 in the following table.

– For Integrated Virtualization Manager see "Integrated Virtualization Manager" on page 378 in the following table.

No: Continue.

3. The system console is not available.

- If you have a PC you can attach to one of the HMC ports and launch a browser, then work on the SRC by looking at the Advanced System Management Interface (ASMI). See "Advanced System Management Interface (ASMI)" on page 378 in the following table.

- Otherwise work on the SRC from the control panel. See "Control Panel" on page 378 in the following table.

Table 1. How to determine the nature of a (B1xx) reference code

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Where you found the SRC	How to determine the nature of the SRC
Hardware Management Console (HMC)	<p>Search for the SRC in the Service Focal Point on the HMC. See Using Service Focal Point for the HMC for help in using the Service Focal Point.</p> <ul style="list-style-type: none"> If you find the SRC in the Service Focal Point, it requires a service action. Refer to Repairing serviceable events for more information on using the Service Focal Point. If you do not find the SRC in the Service Focal Point, it is for tracking purposes only and does not require service.
AIX	<p>Look in the diagnostics results log.</p> <ul style="list-style-type: none"> If you find the SRC in the Diagnostics Results Log, it requires a service action. If you do not find the SRC in the Diagnostics Results Log, it is for tracking purposes only and does not require service.
Linux	<p>Look in the diagnostics message log.</p> <ul style="list-style-type: none"> If you find the SRC in the Diagnostics Message Log, it requires a service action. If you do not find the SRC in the Diagnostics Message Log, it is for tracking purposes only and does not require service. <p>Note: The Linux Service Aids must be installed to view the message log: If these Service Aids are not installed then the message log entries can not be viewed. http://techsupport.services.ibm.com/server/lopdiags</p>
i5/OS	<p>Look in the Service Action Log.</p> <ul style="list-style-type: none"> If you find the SRC in the SAL, it requires a service action. If you do not find the SRC in the SAL, it is for tracking purposes only and does not require service.
Integrated Virtualization Manager	<p>Look in the Service Focal Point. For details, see Using Service Focal Point for the Integrated Virtualization Manager.</p> <ul style="list-style-type: none"> If you find the SRC in the Service Focal Point, it requires a service action. If you do not find the SRC in the Service Focal point, it is for tracking purposes only and does not require service.
Advanced System Management Interface (ASMI)	<p>To determine if the SRC requires repair action or not using ASMI, see the table in Displaying error and event logs.</p> <p>If the SRC is in the Miscellaneous event logs row, then no repair action is needed. If the SRC is in the Error logs row, then service is needed. Select that log and Show Details to get the full detail format of the log. Then, use the Callout section of the Error and Event Logs and “(B1xx) Service processor firmware reference code callouts” on page 461.</p>
Control Panel	<p>See “(B1xx) Service processor firmware reference code callouts” on page 461 for instructions. Collect SRC and system information (if possible). See Using the control panel to collect reference codes and system information.</p>

(B1xx) Service processor firmware reference code descriptions

If you wish to determine if the SRC requires a service action or if it is for tracking purposes only, see “(B1xx) Service processor firmware reference codes” on page 377 for instructions.

Note: See Table 2. (B1xx) SRC Descriptions for a list of B1xx SRCs and descriptions.

B1xxyyyy where:

xx= Indicates the subsystem where the event or error occurred. See Table 1. (B1xx) Service processor subsystem IDs.

yyyy= The reason for the event or error (reason code). See Table 3. (B1xx) Service processor reason codes' ranges.

A B1xx reference code indicates that an event or exception occurred in a service processor firmware-detected operation. The following tables describe the B1xx SRCs.

- Table 1. (B1xx) Service processor subsystem IDs lists ranges of B1xx Service processor subsystem IDs and gives a general description of the associated event or error.
- Table 2. (B1xx) SRC Descriptions lists B1xx SRCs and descriptions.
- Table 3. (B1xx) Service processor reason codes' ranges lists ranges of B1xx SRCs in the format B1xx yyyy, where yyyy refers to a series of characters (called the reason code). This table includes the reason code and a more detailed description of the exception in the firmware or in a firmware operation.

Table 1. (B1xx) Service processor subsystem IDs

Subsystem ID	Description
10	Processor subsystem event or error reported by the service processor.
11	Processor FRU event or error reported by the service processor.
12	Processor chip (including internal cache) event or error reported by the service processor.
13	Processor unit (CPU) event or error reported by the service processor.
14	Processor/system bus controller and interface event or error reported by the service processor.
20	Memory subsystem event or error reported by the service processor.
21	Memory controller event or error reported by the service processor.
22	Memory bus interface event or error reported by the service processor.
23	Memory DIMM event or error reported by the service processor.
24	Memory card/FRU event or error reported by the service processor.
25	External cache event or error reported by the service processor.
30	I/O subsystem event or error reported by the service processor.
31	I/O hub (Remote I/O) event or error reported by the service processor.
32	I/O bridge event or error reported by the service processor.
33	I/O bus interface event or error reported by the service processor.
34	I/O processor event or error reported by the service processor.
35	SMA hub event or error reported by the service processor.
36	Remote I/O loop and associated I/O hub event or error reported by the service processor.
37	Remote I/O loop and associated I/O bridge event or error reported by the service processor.
38	Processor Host Bridge (PHB) event or error reported by the service processor.
39	EADS/EADS-X global event or error reported by the service processor.
3A	EADS/EADS-X slot event or error reported by the service processor.
40	I/O adapter event or error reported by the service processor.
46	I/O device event or error reported by the service processor.
50	System unit hardware event or error reported by the service processor.
51	Service processor event or error reported by the service processor.
55	VPD device and interface event or error reported by the service processor.
56	I2C device and interface event or error reported by the service processor.
57	JTAG device and interface event or error reported by the service processor.
58	Clock and control event or error reported by the service processor.
59	Control panel event or error reported by the service processor.

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Subsystem ID	Description
5A	Time-of-day hardware (including the battery) event or error reported by the service processor.
5B	Storage/memory device on service processor event or error reported by the service processor.
60	Power/cooling subsystem and control event or error reported by the service processor.
61	Power supply event or error reported by the service processor.
62	Power control hardware event or error reported by the service processor.
63	Fan or other air moving device event or error reported by the service processor.
70	Other event or error reported by the service processor.
71	HMC subsystem and hardware event or error reported by the service processor.
72	Test tool event or error reported by the service processor.
73	Removal media event or error reported by the service processor.
74	Multiple subsystems event or error reported by the service processor.
75	Unknown, invalid event or error reported by the service processor.
76	Informational event reported by the service processor.
7B	Connection monitoring error: service processor lost communication with the server firmware.
7C	Connection monitoring error: service processor lost communication with the HMC.
7D	Connection monitoring error: HMC lost communication with a logical partition.
80	Platform firmware event or error reported by the service processor.
81	Service processor firmware event or error reported by the service processor.
82	Server firmware event or error reported by the service processor.
85	SPCN firmware event or error reported by the service processor.
86	Bulk power firmware event or error reported by the service processor.
87	HMC code or firmware event or error reported by the service processor.
90	Software event or error reported by the service processor.
A0	External environment event or error reported by the service processor
A1	Input power source (AC) event or error reported by the service processor.
A2	Room (ambient) temperature event or error reported by the service processor.
A3	User error reported by the service processor.

Table 2. (B1xx) SRC Descriptions

Reference Code	Description	Action
B103F684	Xscoms are not supported	Determine if service action or tracking event
B104FAA9	Failed trying to get pointer to functional unit group for type	Determine if service action or tracking event
B110E500	Bad hardware	Determine if service action or tracking event
B110F138	Scom attention detected on the current chip	Determine if service action or tracking event
B110F139	Master Attention Alone detected	Determine if service action or tracking event
B110F141	Indicates a potential problem with clock card	Determine if service action or tracking event

Reference Code	Description	Action
B110F7B0	The interposer plug count for the MCM in the callout has exceeded the limit	Determine if service action or tracking event
B110F7B1	The interposer plug count for the MCM in the callout has exceeded the limit	Determine if service action or tracking event
B110F7B2	The interposer plug count for the MCM in the callout has exceeded the limit	Determine if service action or tracking event
B110F7B3	The interposer plug count for the MCM in the callout has exceeded the limit	Determine if service action or tracking event
B110F7B4	The interposer plug count for the MCM in the callout has exceeded the limit	Determine if service action or tracking event
B110F7B5	The interposer plug count for the MCM in the callout has exceeded the limit	Determine if service action or tracking event
B110F7B6	The interposer plug count for the MCM in the callout has exceeded the limit	Determine if service action or tracking event
B110F7B7	The interposer plug count for the MCM in the callout has exceeded the limit	Determine if service action or tracking event
B111E500	Bad hardware	Determine if service action or tracking event
B111F64B	Fabric latency calculation packet not received on processor	Determine if service action or tracking event
B111F658	Invalid fabric rotation length	Determine if service action or tracking event
B111F665	Processor's POR State Machine not at idle after free running logic reset	Determine if service action or tracking event
B112E500	Bad hardware	Determine if service action or tracking event
B112F64E	PLL Health check failed on Trimaran	Determine if service action or tracking event
B112F65B	Invalid L2 Slice Configuration	Determine if service action or tracking event
B112F66E	Handling CE detected by the fabric firs and the L3 firs	Determine if service action or tracking event
B112F66F	Handle errors detected by L3 firs and the ebist engine	Determine if service action or tracking event
B112F670	Handle CE detected by L3 firs	Determine if service action or tracking event
B113E500	Bad hardware	Determine if service action or tracking event
B114E500	Bad hardware	Determine if service action or tracking event
B114F2DF	Fatal IAP Error	Determine if service action or tracking event
B114F663	Fabric initialization failed on processor	Determine if service action or tracking event
B114F66C	Clock period from Fabric out of calculated range	Determine if service action or tracking event
B114F66D	Operation attempted on nonfunctional Functional unit	Determine if service action or tracking event
B114F66E	Handling CE detected by the Fabric firs and the L3 firs	Determine if service action or tracking event
B114F6A1	Processor chip didn't have all zeros in the ring scanned	Determine if service action or tracking event
B114F6A2	Processor chip didn't have all ones in the ring scanned	Determine if service action or tracking event
B114F6C1	Actual Processor chip lbist signature didn't match the expected values	Determine if service action or tracking event

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Reference Code	Description	Action
B114F6D0	Processor chip abist timeout	Determine if service action or tracking event
B114F6D1	Processor chip abist fail	Determine if service action or tracking event
B114F6D2	Processor chip missing fusemap data in VPD	Determine if service action or tracking event
B114F6D3	No repairs found for pending array repair	Determine if service action or tracking event
B114F7A4	Processor gets clock errors with each clock input	Determine if service action or tracking event
B114FB53	Wiretest has detected an EST error	Determine if service action or tracking event
B120E500	Bad hardware	Determine if service action or tracking event
B120F228	A memory block trying to be referenced is out of range	Determine if service action or tracking event
B120F667	Fir bit UE (uncorrectable error) during maintenance scrub or L3 connections test display	Determine if service action or tracking event
B120F685	Single-shot command never completed	Determine if service action or tracking event
B121E500	Bad hardware	Determine if service action or tracking event
B121F2DF	Undetermined failure on IAP	Determine if service action or tracking event
B121F666	Fir bit indicates problem with memory controller	Determine if service action or tracking event
B121F66A	Cache line write buffer CEs after a flush if Manufacturing mode set	Determine if service action or tracking event
B121F66B	No fir bits on. Maintenance command timed out	Determine if service action or tracking event
B121F66E	Handling CE detected by the Fabric firs and the L3 firs	Determine if service action or tracking event
B121F684	This level of hardware does not support 8GB DIMMs that require ranks 8-15	Determine if service action or tracking event
B121F690	Fir bit indicates MC CE	Determine if service action or tracking event
B121F7A5	The memory controller gets clock errors with both clock inputs	Determine if service action or tracking event
B123E500	Bad hardware	Determine if service action or tracking event
B123F642	The DIMMs in the callout list are part of an incomplete group because of missing DIMMs	Determine if service action or tracking event
B123F643	The DIMMS in the callout list don't match, so they form an invalid memory group	Determine if service action or tracking event
B123F667	Fir bit UE (uncorrectable error) during maintenance scrub or L3 connections test display	Determine if service action or tracking event
B123F669	Maintenance CE threshold exceeded during maintenance scrub or L3 connections test display	Determine if service action or tracking event
B123F688	The DIMMS in the callout list are on a processor card that only allows quad stacked DIMMs	Determine if service action or tracking event
B123F7BB	The system resource(s) in the callout list failed a system configuration test	Determine if service action or tracking event
B124E500	Bad hardware	Determine if service action or tracking event
B124F622	Failed JTAG function call	Determine if service action or tracking event
B124F62A	POR Complete not reached on SMI2. Chip is most likely locked up	Determine if service action or tracking event
B124F64E	PLL Lock Failure (PLL is unlocked)	Determine if service action or tracking event

Reference Code	Description	Action
B124F65F	SMI didn't exit power down mode after Exit Power Down maintenance command executed	Determine if service action or tracking event
B124F66C	Clock period from SMI out of calculated range	Determine if service action or tracking event
B124F68D	Fir bit indicates problem with SP code or SMI	Determine if service action or tracking event
B124F68E	Fir bit indicates interface problem with DIMMs	Determine if service action or tracking event
B124F68F	Fir bit indicates interface CEs with DIMMs	Determine if service action or tracking event
B124F690	Fir bit indicates MC CE	Determine if service action or tracking event
B124F691	SMI Masked Fir Bit On	Determine if service action or tracking event
B124F6C7	SMI2 lbist signature didn't match the expected values	Determine if service action or tracking event
B125E500	Bad hardware	Determine if service action or tracking event
B125F622	Failed JTAG function call	Determine if service action or tracking event
B125F62A	Timed out waiting for Trimaran LBIST to complete	Determine if service action or tracking event
B125F66C	Clock period from Trimaran out of calculated range	Determine if service action or tracking event
B125F66E	Handling CE detected by the Fabric firs and the L3 firs	Determine if service action or tracking event
B125F66F	Handle errors detected by L3 firs and the ebist engine	Determine if service action or tracking event
B125F670	Handle CE detected by L3 firs	Determine if service action or tracking event
B125F671	Trimaran not ready for ebist Command	Determine if service action or tracking event
B125F6A7	Trimaran didn't pass setting the ring to all zeros	Determine if service action or tracking event
B125F6A8	Trimaran didn't pass setting the ring to all ones	Determine if service action or tracking event
B125F6C4	Trimaran lbist signature didn't match the expected values	Determine if service action or tracking event
B125FAA1	Ebist engine timed out	Determine if service action or tracking event
B125FAA5	L3 Address to be deleted	Determine if service action or tracking event
B125FAA7	Error detected by EBIST engine	Determine if service action or tracking event
B130E500	Bad hardware	Determine if service action or tracking event
B130F2DF	Fatal IAP Error	Determine if service action or tracking event
B131F138	Scom attention detected on the current chip	Determine if service action or tracking event
B131E500	Bad hardware	Determine if service action or tracking event
B131F242	The part found in RID location is not supported in this configuration	Determine if service action or tracking event
B131F2DF	Fatal IAP Error	Determine if service action or tracking event
B131F64B	Auto TLAR calculation failed. Acknowledge never received	Determine if service action or tracking event
B131F64E	PLL Lock Failure (PLL is unlocked)	Determine if service action or tracking event
B131F657	Galaxy scom operation did not complete	Determine if service action or tracking event
B131F66C	Clock period from chip out of calculated range	Determine if service action or tracking event
B131F6A3	Enterprise scanned ring to all 0 test failed	Determine if service action or tracking event
B131F6A4	Enterprise scanned ring to all 1 test failed	Determine if service action or tracking event

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Reference Code	Description	Action
B131F6AF	P5IOC scanned ring to all 0 test failed	Determine if service action or tracking event
B131F6B0	P5IOC scanned ring to all 1 test failed	Determine if service action or tracking event
B131F6C2	Actual Enterprise chip lbist signature didn't match the expected values	Determine if service action or tracking event
B131F6C9	Actual P5IOC chip lbist signature didn't match the expected values	Determine if service action or tracking event
B131F6D4	Enterprise failed abist test	Determine if service action or tracking event
B131F6DA	P5IOC failed abist test	Determine if service action or tracking event
B132E500	Bad hardware	Determine if service action or tracking event
B132F6A5	Winnipeg didn't pass the scan test of all zeros	Determine if service action or tracking event
B132F6A6	Winnipeg didn't pass the scan test of all ones	Determine if service action or tracking event
B132F6C3	Actual Winnipeg chip lbist signature didn't match the expected values	Determine if service action or tracking event
B132F6D5	Winnipeg didn't pass abist test	Determine if service action or tracking event
B132F7A8	Failed to enable host PCI	Determine if service action or tracking event
B132F7A9	Failed to verify host PCI	Determine if service action or tracking event
B133E500	Bad hardware	Determine if service action or tracking event
B135E500	Bad hardware	Determine if service action or tracking event
B135F62A	We timed out waiting for the PLLs to lock	Determine if service action or tracking event
B135F6C6	CanopusPlus didn't pass setting the ring to all zeros or ones ring	Determine if service action or tracking event
B135F6C8	LDC lbist signature didn't match the expected values	Determine if service action or tracking event
B135F6D8	CanopusPlus abist test failed	Determine if service action or tracking event
B1431583	Failed to get input buffer from SCED	Determine if service action or tracking event
B1503517	Failed to determine system type	Determine if service action or tracking event
B150355A	Error in determining FSP-A/B position	Determine if service action or tracking event
B150355B	Error in determining FSP-A/B position	Determine if service action or tracking event
B15035D5	Failed to close I2C ADAL	Determine if service action or tracking event
B150D133	Server process failed	Determine if service action or tracking event
B150E500	Bad hardware	Determine if service action or tracking event
B150E670	Error in determining system type. We cannot determine system type because gpio read gave unsupported values	Determine if service action or tracking event
B150E675	Failed to open I2C ADAL	Determine if service action or tracking event
B150E676	Failed to transmit data using I2C ADAL	Determine if service action or tracking event
B150E678	Failed to obtain control of MUX	Determine if service action or tracking event
B150E679	Failed to setup I2C ADAL configuration	Determine if service action or tracking event
B150E67A	Failed to obtain control of MUX	Determine if service action or tracking event
B150E67B	Failed to close I2C ADAL	Determine if service action or tracking event
B150E67C	Failed to receive data from I2C ADAL	Determine if service action or tracking event
B150E67D	Failed to transmit data using I2C ADAL	Determine if service action or tracking event

Reference Code	Description	Action
B150E67E	Failed to transmit data using I2C ADAL	Determine if service action or tracking event
B150E67F	Failed to receive data from I2C ADAL	Determine if service action or tracking event
B150E680	Failed to setup GPIO pins	Determine if service action or tracking event
B150E681	Failed to read GPIO pins	Determine if service action or tracking event
B150E691	Failed to close I2C ADAL	Determine if service action or tracking event
B150F12C	Unmatched CRC	Determine if service action or tracking event
B150F206	There is a card in the system that is missing or has corrupted VPD data	Determine if service action or tracking event
B150F207	Detected a card in the system without chips	Determine if service action or tracking event
B150F20A	Failed to create daughter card object	Determine if service action or tracking event
B150F22A	There was not enough functional nodes found in the system to continue IPLing.	Determine if service action or tracking event
B150F2C2	Fabric bus lost synchronization, IPL cannot continue	Determine if service action or tracking event
B150F2DE	Elastic Interface Alignment Procedure never completed	Determine if service action or tracking event
B150F2DF	Fatal IAP Error	Determine if service action or tracking event
B150F2E0	Non-fatal IAP Error/Warning	Determine if service action or tracking event
B150F2E7	There is a checkstop present prior to running FOCR Sync	Determine if service action or tracking event
B150F239	Detected a missing chip	Determine if service action or tracking event
B150F244	It seems that both clock cards, which should be present in the system, are not present in the system	Determine if service action or tracking event
B150F620	Invalid bits set	Determine if service action or tracking event
B150F627	Error detected while waiting for Trimaran display to complete	Determine if service action or tracking event
B150F62A	Timeout while waiting for display to complete	Determine if service action or tracking event
B150F66D	Handle errors detected by the Fabric firs and the L3 firs	Determine if service action or tracking event
B150F805	Functional Unit procedure error	Determine if service action or tracking event
B150F806	Procedure error	Determine if service action or tracking event
B150F80e	Error while stopping Core clocks	Determine if service action or tracking event
B150F80f	Error while stopping Fabric clocks	Determine if service action or tracking event
B150F810	Error while starting Core clocks	Determine if service action or tracking event
B150F811	Error while starting Fabric clocks	Determine if service action or tracking event
B150F819	Error while reading data in from ring buffer or alias	Determine if service action or tracking event
B150F81a	Error while writing ring buffers or alias to hardware	Determine if service action or tracking event
B150F81c	Error reading from register	Determine if service action or tracking event
B150F81d	Error writing to register	Determine if service action or tracking event
B150FAA2	Data Miscompare found in L3 Connections test but no Fir bit on	Determine if service action or tracking event

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Reference Code	Description	Action
B150FB53	Wiretest has detected an EST error	Determine if service action or tracking event
B150FB54	RDT has detected a hardware error	Determine if service action or tracking event
B150FB55	Processor group pointer is NULL	Determine if service action or tracking event
B150FB61	Processor group pointer is NULL	Determine if service action or tracking event
B150FB64	Processor group pointer is NULL	Determine if service action or tracking event
B150FD00	GARD Actions were performed on all items that were marked to be gard'd by the system that are not resource recoverable	Determine if service action or tracking event
B150FD01	GARD Actions were performed on all items that were marked as gard'd manually via the menus or system gard'd items that can be resource recovered	Determine if service action or tracking event
B150FD02	GARD Data did not exist because either it was the first IPL on this machine or NVRAM had been cleared	Determine if service action or tracking event
B1513598	Garding out FSPA due to communication fail	Determine if service action or tracking event
B151E40A	Detected DRAM Recovered Errors	Determine if service action or tracking event
B151E40B	Detected NVRAM Recovered Errors	Determine if service action or tracking event
B1523592	Sibling FSP is expected but not present	Determine if service action or tracking event
B1523599	Garding out FSPB due to communication fail	Determine if service action or tracking event
B1551300	First level of basic input parameter validation failed	Determine if service action or tracking event
B1551301	Second level of basic input parameter validation failed	Determine if service action or tracking event
B1551304	Machine model invalid	Determine if service action or tracking event
B1551305	Invalid offset type received in structure	Determine if service action or tracking event
B1551306	Number of devices is less than or equal to zero	Determine if service action or tracking event
B1551307	Can't open device list file	Determine if service action or tracking event
B1551308	Data pointer is NULL	Determine if service action or tracking event
B1551310	Failed to read root path from registry	Determine if service action or tracking event
B1551311	Failed to read device path from registry	Determine if service action or tracking event
B1551312	Read sink path failed	Determine if service action or tracking event
B1551313	Read check value failed	Determine if service action or tracking event
B1551320	No data returned from ADAL	Determine if service action or tracking event
B1551321	Maximum arbitration retries exceeded	Determine if service action or tracking event
B1551322	Error from the ADAL trying to set the device Master timeout	Determine if service action or tracking event
B1551323	Write to old hub failed	Determine if service action or tracking event
B1551324	Failed VPD dataport read	Determine if service action or tracking event
B1551325	Failed VPD dataport write	Determine if service action or tracking event
B1551326	Pass through to open file	Determine if service action or tracking event
B1551330	Failed to release I2C lock	Determine if service action or tracking event
B1551331	Failed to unlock I2C hub	Determine if service action or tracking event

Reference Code	Description	Action
B1551332	Error unlocking hub	Determine if service action or tracking event
B1551333	Error from ADAL trying to unlock the device behind the hub	Determine if service action or tracking event
B1551334	Error unlocking CHUNKY device	Determine if service action or tracking event
B1551340	Invalid operation type received in structure	Determine if service action or tracking event
B1551341	Invalid number of nodes received in structure	Determine if service action or tracking event
B1551342	Busy condition	Determine if service action or tracking event
B1551343	Lock on first address of the chunky device failed	Determine if service action or tracking event
B1551344	Error locking CHUNKY device	Determine if service action or tracking event
B1551345	Error from ADAL trying to set the Master timeout	Determine if service action or tracking event
B1551346	Failed to get hub type	Determine if service action or tracking event
B1551350	Could not get the bus to start the transaction	Determine if service action or tracking event
B1551351	Error trying to close the bus	Determine if service action or tracking event
B1551352	Error from the ADAL trying to park the I2C mux	Determine if service action or tracking event
B1551353	Error from ADAL trying to set Master timeout value	Determine if service action or tracking event
B1551354	Error from ADAL trying to set device timeout value	Determine if service action or tracking event
B1551355	Error from ADAL trying to lock the device behind the hub	Determine if service action or tracking event
B1551356	Attempt to lock this device failed	Determine if service action or tracking event
B1551357	Failed to set I2C lock	Determine if service action or tracking event
B1551358	Error trying to set the bus speed in preparation for a retry	Determine if service action or tracking event
B1551359	Error trying to read the maximum memory size of the device from the ADAL	Determine if service action or tracking event
B155135A	Error trying to read the bus speed to see if it can be lowered for a retry	Determine if service action or tracking event
B155135B	Write to set new hub failed	Determine if service action or tracking event
B1551360	Write to new hub failed	Determine if service action or tracking event
B1551361	Write to set the device failed	Determine if service action or tracking event
B1551362	Write to set old hub failed	Determine if service action or tracking event
B1551363	Retry at lower bus speed also failed	Determine if service action or tracking event
B1551364	Retry after the bus reset still failed	Determine if service action or tracking event
B1551365	Retry after bus busy condition still failed	Determine if service action or tracking event
B1551366	Retry after loss of arbitration failed	Determine if service action or tracking event
B1551370	Receive from device failed	Determine if service action or tracking event
B1551371	Read from device failed	Determine if service action or tracking event
B1551372	Failed to receive data from hub	Determine if service action or tracking event
B1551373	Failed to receive data	Determine if service action or tracking event
B1551380	Error trying to write register to device	Determine if service action or tracking event

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Reference Code	Description	Action
B1551381	Error trying to do the read	Determine if service action or tracking event
B1551390	Error trying to reset bus	Determine if service action or tracking event
B1551392	Error while closing an I2C bus or unlocking an I2C device or parking an I2C MUX	Determine if service action or tracking event
B1551393	Failed to create network client address	Determine if service action or tracking event
B1551394	Failed network connection between client and server	Determine if service action or tracking event
B1551395	Communication error while trying to send or receive	Determine if service action or tracking event
B1551396	Failed to unflatten server error log	Determine if service action or tracking event
B1551397	Failed to close network client	Determine if service action or tracking event
B1551398	Invalid input received from the caller	Determine if service action or tracking event
B1551399	Error while trying to unflatten the server error log	Determine if service action or tracking event
B155139A	Error while trying to unflatten the server error log	Determine if service action or tracking event
B155139B	Failed to turn on FRONT light strip	Determine if service action or tracking event
B155139C	Failed to turn on BACK light strip	Determine if service action or tracking event
B155B006	Failed to update the Module VPD	Determine if service action or tracking event
B155B017	Keyword can not be found in the VPD buffer	Determine if service action or tracking event
B155B028	We failed trying to read smart chip block	Determine if service action or tracking event
B155B02C	There was a failure trying to update one of the smart chip blocks	Determine if service action or tracking event
B155B036	We failed trying to get smart chip block size	Determine if service action or tracking event
B155B03D	Failed to write to I2C device	Determine if service action or tracking event
B155B03E	Error reading from the device	Determine if service action or tracking event
B155B03F	Reading thermal sensor data or RIO cable id failed for the given FRU	Determine if service action or tracking event
B155B048	ECC check failed on the given FRU	Determine if service action or tracking event
B155B04D	Checksum in the VPD data does not match calculated checksum	Determine if service action or tracking event
B155B058	The VPD data which describes the wiring path of a FRU is invalid	Determine if service action or tracking event
B155B05E	No valid copy of System VPD was found on this system	Determine if service action or tracking event
B155B060	There was a mismatch in VINI record for primary and redundant root node VPD	Determine if service action or tracking event
B155B061	Unable to use either VPD Chip because we could not reach them or they are garded out	Determine if service action or tracking event
B155B065	Reading all blocks from smart chip failed	Determine if service action or tracking event
B155B06D	Failed to process VPD chip	Determine if service action or tracking event
B155B06F	No valid copy of Enclosure VPD was found on this system	Determine if service action or tracking event

Reference Code	Description	Action
B155B070	Invalid/Un-Programmed System Serial Number (SE)	Determine if service action or tracking event
B155B071	Invalid/Un-Programmed Serial Number in Enclosure	Determine if service action or tracking event
B155B072	Invalid/Un-Programmed System Storage Serial Number (SG)	Determine if service action or tracking event
B155B073	Invalid/Un-Programmed System Type Model (TM)	Determine if service action or tracking event
B155B074	Invalid/Un-Programmed System Storage Type Model (TN)	Determine if service action or tracking event
B155B075	Invalid/Un-Programmed System Manufacturing ID (MN)	Determine if service action or tracking event
B155B076	Invalid/Un-Programmed System ID (ID)	Determine if service action or tracking event
B155B077	Invalid/Un-Programmed System Unique ID (SU)	Determine if service action or tracking event
B155B078	Invalid/Un-Programmed World Wide Node Name (NN)	Determine if service action or tracking event
B155B079	Invalid/Un-Programmed System Brand (BR)	Determine if service action or tracking event
B155B07D	Invalid/Un-Programmed Feature Code in Enclosure	Determine if service action or tracking event
B155B083	Pin failure failed after root node mismatch	Determine if service action or tracking event
B155B086	A device did not respond to an I2C or smartchip request but using other logic we found in firmware that the FRU is actually present on the system	Determine if service action or tracking event
B155B087	We had an error in trying to detect if this FRU was actually present or not on the system	Determine if service action or tracking event
B155B08F	We failed trying to configure bits for 9555/9554 controllers	Determine if service action or tracking event
B155B090	We failed trying to create smart chip block	Determine if service action or tracking event
B155B091	Error occurred while locking/unlocking DASD device	Determine if service action or tracking event
B155B096	Unsupported bit definition found in the VPD data for record_99	Determine if service action or tracking event
B155B0AA	Error reading from the device	Determine if service action or tracking event
B157E500	Bad hardware	Determine if service action or tracking event
B157F131	Last bits of chip command status are not 0x01	Determine if service action or tracking event
B157F20D	The JTAG chain pointer was initialized to NULL and maybe do to an invalid input	Determine if service action or tracking event
B157F244	A chip has been found to be missing	Determine if service action or tracking event
B158E500	Bad hardware	Determine if service action or tracking event
B158F7A3	Clock failure during test	Determine if service action or tracking event
B158F7A4	Processor gets clock errors with each clock input	Determine if service action or tracking event
B158F7A5	The memory controller gets clock errors with both clock inputs	Determine if service action or tracking event
B159A070	Indicates that the Panel is being deactivated	Determine if service action or tracking event

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Reference Code	Description	Action
B15A5000	There is a hardware problem with the RTC	Determine if service action or tracking event
B15A5002	One-time log stating that the FSP time is invalid and needs to be reset	Determine if service action or tracking event
B15A5004	The FSP battery needs replacing	Determine if service action or tracking event
B1701001	DMA driver has encountered an error	Determine if service action or tracking event
B1701002	DMA driver has encountered an error	Determine if service action or tracking event
B1701003	DMA driver has encountered an error due to hardware checkstop during a read operation in the IPL mode	Determine if service action or tracking event
B1701004	DMA driver has encountered an error due to a target abort in the IPL mode during a read operation	Determine if service action or tracking event
B1701005	DMA driver has encountered an unknown error in TCE mode during read operation	Determine if service action or tracking event
B1701006	DMA driver has encountered an error due to hardware checkstop during a write operation in the IPL mode	Determine if service action or tracking event
B1701007	DMA driver has encountered an error due to a target abort in the IPL mode during a write operation	Determine if service action or tracking event
B1701008	DMA driver has encountered an unknown error in IPL mode during write operation	Determine if service action or tracking event
B1701009	DMA driver has encountered an error due to hardware checkstop during a read operation in the TCE mode	Determine if service action or tracking event
B170100A	DMA driver has encountered an error due to a target abort in the TCE mode during a read operation	Determine if service action or tracking event
B170100D	DMA driver has encountered an error due to a target abort in the TCE mode during a write operation	Determine if service action or tracking event
B170100F	DMA driver returned a zero	Determine if service action or tracking event
B1701010	User given data length doesn't match with the amount of data being DMA'd	Determine if service action or tracking event
B1701012	User given data length doesn't match with the amount of data being DMA'd	Determine if service action or tracking event
B1701018	Failed to verify host PCI	Determine if service action or tracking event
B1701019	Failed to enable host PCI	Determine if service action or tracking event
B1701029	Data which is written via DMA does not match with the data being read from the same address using JTAG	Determine if service action or tracking event
B170102A	Data which is written via DMA does not match with the data being read from the same address using DMA	Determine if service action or tracking event
B170102B	DMA verification failed while writing random data at the host address	Determine if service action or tracking event
B1701040	Error occurred in code	Determine if service action or tracking event

Reference Code	Description	Action
B170901F	SPIRA does not have sufficient space for the data structure	Determine if service action or tracking event
B1709029	Data read from mainstore is not the same as what was written to mainstore	Determine if service action or tracking event
B170E500	Bad hardware	Determine if service action or tracking event
B170F668	Maintenance SUE during memory preserving or exit/error state IPL	Determine if service action or tracking event
B1748812	A Fatal system attention was received so the Service Routine failed to complete	Determine if service action or tracking event
B175E019	Communication with the IPAP failed	Determine if service action or tracking event
B175E01A	This entry is to record a successful communication with RETAIN, contains the PMH number and the response from retain regarding the call packet.	Determine if service action or tracking event
B175E01B	We sent the 20 record to RETAIN, for some reason they did not ask for the first call data packet, we log this error and move on, since we did not send the error data to RETAIN it's not a success.	Determine if service action or tracking event
B175E01C	We sent the logon record and did not get a successful response	Determine if service action or tracking event
B175E01D	We sent the user record and did not get a successful response the machine may not be entitled	Determine if service action or tracking event
B175E500	Bad hardware	Determine if service action or tracking event
B1764020	Invalid data was found in the registry entry	Determine if service action or tracking event
B1764024	The Hyperboot capability value is being changed from ENABLED to CAPABLE due to the value of Service Processor IPL type.	Determine if service action or tracking event
B176501F	Invalid data was found in the rtim registry entry	Determine if service action or tracking event
B1765020	The system time was changed	Determine if service action or tracking event
B1765023	The Timed Power On was disabled due to invalid system time	Determine if service action or tracking event
B1765024	The rtiminit daemon received an invalid command in a socket message	Determine if service action or tracking event
B176E500	Bad hardware	Determine if service action or tracking event
B176F687	Bit 2 set in Interrupt Register on Winnipeg	Determine if service action or tracking event
B176F7BC	The user specified LMB size is not valid for this system's memory size, so the system will use the default LMB size for this configuration	Determine if service action or tracking event
B17BE434	PHYP failed to send its heartbeat message within the stipulated time	Determine if service action or tracking event
B17CE433	Hardware Management Console failed to send its heartbeat message within the stipulated time	Determine if service action or tracking event
B1806003	Unable to complete fork operation	Determine if service action or tracking event
B1806006	Failed to allocate memory for object	Determine if service action or tracking event
B1806007	Error receiving message	Determine if service action or tracking event

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Reference Code	Description	Action
B1806009	Invalid state set for State Manager	Determine if service action or tracking event
B180600A	Invalid state set for State Manager	Determine if service action or tracking event
B180600C	Error in the size of the registry value	Determine if service action or tracking event
B180600D	Bad size of registry value	Determine if service action or tracking event
B180600E	Could not read the registry	Determine if service action or tracking event
B180600F	Failed to write to the registry	Determine if service action or tracking event
B1806010	Invalid current and next state	Determine if service action or tracking event
B1806011	Invalid file state	Determine if service action or tracking event
B1806013	Invalid state set for State Manager	Determine if service action or tracking event
B180601A	Failed to reset the file open	Determine if service action or tracking event
B180601C	Failed to decode reset values	Determine if service action or tracking event
B180601D	Failed to allocate memory for object	Determine if service action or tracking event
B1806021	Failed to write to message in queue	Determine if service action or tracking event
B1806022	Failed to read from message in queue	Determine if service action or tracking event
B1806023	Failed to look up file from required type	Determine if service action or tracking event
B1806025	Failed to reboot	Determine if service action or tracking event
B1806026	Failed to open map file	Determine if service action or tracking event
B180602B	Failed to read Manufacturing flag for reset/reload	Determine if service action or tracking event
B1806030	Invalid character	Determine if service action or tracking event
B1806031	Error receiving log from client library	Determine if service action or tracking event
B1806033	Failed to synchronize with the State Manager server	Determine if service action or tracking event
B1806035	Failed IPL type	Determine if service action or tracking event
B1806036	Validation of PCS failed	Determine if service action or tracking event
B1806037	Tool reset occurred	Determine if service action or tracking event
B180E500	Bad hardware	Determine if service action or tracking event
B1811013	Failed to open DMA driver	Determine if service action or tracking event
B1811016	Could not retrieve debug configuration information from the DMA driver	Determine if service action or tracking event
B1811017	Could not retrieve debug configuration information from the DMA driver	Determine if service action or tracking event
B181101A	User asking to do a zero length DMA	Determine if service action or tracking event
B181101B	User asking to do a zero length DMA	Determine if service action or tracking event
B181101C	Invalid FSP address received from user	Determine if service action or tracking event
B181101D	Invalid FSP address received from user	Determine if service action or tracking event
B181101E	Bad tag data	Determine if service action or tracking event
B181101F	Bad tag data	Determine if service action or tracking event
B1811020	Bad tag data	Determine if service action or tracking event
B1811021	Cannot DMA when FSP state is between Instruction Start and OLC	Determine if service action or tracking event

Reference Code	Description	Action
B1811022	Invalid value for bus controller	Determine if service action or tracking event
B1811026	There has been a power off just before or during the DMA	Determine if service action or tracking event
B1811027	Could not open file	Determine if service action or tracking event
B1811028	Could not open file	Determine if service action or tracking event
B181102C	Client thread that was supposed to collect DMA error data timed out	Determine if service action or tracking event
B181102D	Event Manager constructor failed	Determine if service action or tracking event
B181102F	Could not query the CHIC reserve identity	Determine if service action or tracking event
B1811030	DMA event listener deleted by another DMA thread	Determine if service action or tracking event
B1811031	Failed to wait for thread conditional	Determine if service action or tracking event
B1811032	Failed to join with thread	Determine if service action or tracking event
B1811033	Client thread that was supposed to collect DMA error data encountered some error	Determine if service action or tracking event
B1811035	TCE mode shouldn't have been set before PHY P lids are loaded	Determine if service action or tracking event
B1811036	No useful DMA error data returned	Determine if service action or tracking event
B1811037	No HOM ID for the enterprise chip found was returned	Determine if service action or tracking event
B1811038	Maximum number of Service Processor resource identities returned was zero	Determine if service action or tracking event
B1811039	Service Processor resource identities is zero	Determine if service action or tracking event
B181103A	No identity match for current FSP	Determine if service action or tracking event
B181103B	No corresponding DMA path was returned for the current resource identity	Determine if service action or tracking event
B181103D	No resource id for the enterprise chip found was returned	Determine if service action or tracking event
B181103E	No HOM ID for the node found was returned	Determine if service action or tracking event
B181103F	User gave an invalid TCE address. The upper 32 bits of the TCE token is non zero which is not a valid token.	Determine if service action or tracking event
B1811040	Failed to get processor state	Determine if service action or tracking event
B1811041	Current power state is undefined	Determine if service action or tracking event
B1811044	Timeout waiting for CEC debug data	Determine if service action or tracking event
B1811045	The MainStore address being written to is within a range which produces unpredictable results	Determine if service action or tracking event
B1811101	Bad command given when trying to send on I2C	Determine if service action or tracking event
B1811103	Failed to receive on slave I2C	Determine if service action or tracking event
B1811104	Failed to send on I2C	Determine if service action or tracking event
B1811109	Panel display line 1 data truncated	Determine if service action or tracking event
B1811110	Panel display line 2 data truncated	Determine if service action or tracking event
B1811112	Checksum failure	Determine if service action or tracking event
B1811114	Failed to open I2C	Determine if service action or tracking event

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Reference Code	Description	Action
B1811115	Failed to close I2C	Determine if service action or tracking event
B1811117	Button press/release sequence violated	Determine if service action or tracking event
B1811118	Failed to configure I2C	Determine if service action or tracking event
B1811119	Failed to receive on slave I2C	Determine if service action or tracking event
B1811401	Invalid parameter passed to function	Determine if service action or tracking event
B1811402	Failed to open I2C	Determine if service action or tracking event
B1811403	Failed to close I2C	Determine if service action or tracking event
B1811404	Failed to transmit on I2C	Determine if service action or tracking event
B1811405	Failed to configure I2C	Determine if service action or tracking event
B1811406	Message received from RPC was bigger than buffer	Determine if service action or tracking event
B1811501	Failed to set reset	Determine if service action or tracking event
B1811502	Failed chip select	Determine if service action or tracking event
B1811503	Failed to set wrap enable	Determine if service action or tracking event
B1811504	Failed to get present device	Determine if service action or tracking event
B1811505	Failed to set GPIO lines	Determine if service action or tracking event
B1811506	Failed to setup UART hardware to wrap	Determine if service action or tracking event
B1811507	Failed to open UART	Determine if service action or tracking event
B1811508	Failed to set timeout for UART	Determine if service action or tracking event
B1811509	Failed to set automatic transmit for UART	Determine if service action or tracking event
B181150a	Failed to set normal transmit for UART	Determine if service action or tracking event
B181150b	Failed to set received for UART	Determine if service action or tracking event
B181150c	Failed to write UART buffer	Determine if service action or tracking event
B181150d	Failed to read UART buffer	Determine if service action or tracking event
B181150e	Wrap test data compare failed	Determine if service action or tracking event
B181150f	Failed to set functioning device	Determine if service action or tracking event
B1811510	Failed to close UART	Determine if service action or tracking event
B1811511	Failed to get present device	Determine if service action or tracking event
B1811512	Failed to set reset	Determine if service action or tracking event
B1811513	Failed to receive input deglitch from SPCN via UART	Determine if service action or tracking event
B1811514	Failed to set present device	Determine if service action or tracking event
B1811515	Failed to set device unit representation	Determine if service action or tracking event
B1811516	Failed to set GPIO driver type to PUSH/PULL	Determine if service action or tracking event
B1811517	Failed to set GPIO pin	Determine if service action or tracking event
B1811518	Failed to reset pins	Determine if service action or tracking event
B1811519	Failed to reset pin polarity	Determine if service action or tracking event
B181151a	Failed to set baud rate for UART	Determine if service action or tracking event
B181151b	Failed to set parity mode for UART	Determine if service action or tracking event
B181151c	Failed to set check mode for UART	Determine if service action or tracking event
B181151d	Failed to set stop bit length for UART	Determine if service action or tracking event

Reference Code	Description	Action
B181151e	Failed to set end of transmit timeout for UART	Determine if service action or tracking event
B181151f	Failed to set end of message timeout for UART	Determine if service action or tracking event
B1811520	Failed to select chip pins	Determine if service action or tracking event
B1811521	Failed to get chip pins	Determine if service action or tracking event
B1811522	Timeout waiting to receive message on UART	Determine if service action or tracking event
B1811523	Timeout waiting to receive message on UART	Determine if service action or tracking event
B1811524	Failed to write to UART	Determine if service action or tracking event
B1811525	Failed to select pins for function	Determine if service action or tracking event
B1811526	Failed to select pins for function	Determine if service action or tracking event
B1811527	Failed to select pins for function	Determine if service action or tracking event
B1811528	Failed to get address line setting	Determine if service action or tracking event
B1811529	Failed to get address pins polarity	Determine if service action or tracking event
B181152a	Failed to set address GPIO value	Determine if service action or tracking event
B181152b	Failed to set address GPIO driver type to PUSH/PULL	Determine if service action or tracking event
B181152c	Registry Read call returned an error	Determine if service action or tracking event
B181152d	Failed to set function line	Determine if service action or tracking event
B181152e	Failed to close UART	Determine if service action or tracking event
B181152f	Failed to open UART	Determine if service action or tracking event
B1811531	A non-present device was accessed	Determine if service action or tracking event
B1811532	Failed to prep for read/write	Determine if service action or tracking event
B1811533	Failed to get sequence retry count	Determine if service action or tracking event
B1811534	Failed to set next send/receive flag	Determine if service action or tracking event
B1811535	Failed to get next send/receive flag	Determine if service action or tracking event
B1811536	Requested transaction size too large	Determine if service action or tracking event
B1811537	Failed to set next send sequence bit	Determine if service action or tracking event
B1811538	Failed to set next receive sequence bit	Determine if service action or tracking event
B1811539	Received message from smart chip is invalid	Determine if service action or tracking event
B181153a	Failed to set next receive sequence bit	Determine if service action or tracking event
B181153b	Failed to set next send sequence bit	Determine if service action or tracking event
B181153c	Failed to set next send receive flag	Determine if service action or tracking event
B181153d	Failed to set next send sequence bit	Determine if service action or tracking event
B181153e	Failed to set next receive sequence bit	Determine if service action or tracking event
B181153f	Failed to set next send receive flag	Determine if service action or tracking event
B1811541	Failed to set next send sequence bit	Determine if service action or tracking event
B1811542	Failed to set next receive sequence bit	Determine if service action or tracking event
B1811543	Failed to execute wrap reset test	Determine if service action or tracking event
B1811544	Failed to execute transaction	Determine if service action or tracking event
B1811545	Failed to reset VPD devices	Determine if service action or tracking event
B1811546	Failed reset test	Determine if service action or tracking event

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Reference Code	Description	Action
B1811547	Failed to zero all device sequence bits	Determine if service action or tracking event
B1811548	Failed to set valid configuration flag	Determine if service action or tracking event
B1811549	Failed to get next receive sequence bit	Determine if service action or tracking event
B181154a	Failed to get next send sequence bit	Determine if service action or tracking event
B181154b	Failed to reset devices	Determine if service action or tracking event
B181154c	Failed to get valid configuration flag	Determine if service action or tracking event
B181154d	Failed reading the configuration id from GPIO	Determine if service action or tracking event
B181154e	The configuration id read from the GPIO pins on this system is invalid	Determine if service action or tracking event
B181154f	Configuration registry read back test failed	Determine if service action or tracking event
B1811550	Failed to get reserve for sced	Determine if service action or tracking event
B1811551	Failed to reset	Determine if service action or tracking event
B1811552	Failed to release reserve for sced	Determine if service action or tracking event
B1811553	Non-zero response code returned	Determine if service action or tracking event
B1811554	The number of bytes read doesn't match the bytes requested	Determine if service action or tracking event
B1811555	Failed to send command	Determine if service action or tracking event
B1811556	No sender id detected in call	Determine if service action or tracking event
B1811557	Failed to get mux information from VPD	Determine if service action or tracking event
B1811558	Failed any bytes in or out	Determine if service action or tracking event
B1811559	Failed zero bytes in or out	Determine if service action or tracking event
B181155a	Registry write call returned an error	Determine if service action or tracking event
B181155b	Registry Read call returned an error	Determine if service action or tracking event
B181155c	Failed to get file name for GPIO configuration parser	Determine if service action or tracking event
B181155d	Failed to open file	Determine if service action or tracking event
B181155e	Failed to read number of entries from file	Determine if service action or tracking event
B181155f	Failed to read pin information from file	Determine if service action or tracking event
B1811560	Invalid pointer	Determine if service action or tracking event
B1811561	Received a undefined command type	Determine if service action or tracking event
B1811562	Received a undefined command type	Determine if service action or tracking event
B1811563	GPIO pin file not loaded yet	Determine if service action or tracking event
B1811564	Bad value in pin group	Determine if service action or tracking event
B1811565	Registry Read call returned an error	Determine if service action or tracking event
B1811566	Failed to set device present flag to false	Determine if service action or tracking event
B1811567	GPIO pin file not loaded yet	Determine if service action or tracking event
B1811568	Bad value in pin group	Determine if service action or tracking event
B181156a	Error from sced internals	Determine if service action or tracking event
B181156b	Error from network server address	Determine if service action or tracking event
B181156e	Failed message control	Determine if service action or tracking event
B181156f	Failed to get message	Determine if service action or tracking event

Reference Code	Description	Action
B1811570	Failed to create thread for sced	Determine if service action or tracking event
B1811571	Failed to create thread for event handling	Determine if service action or tracking event
B1811572	Failed to get path from registry for synchronization	Determine if service action or tracking event
B1811573	Failed to bind socket for network server	Determine if service action or tracking event
B1811574	Failed to listen on socket for network server	Determine if service action or tracking event
B1811575	Failed to synchronize with server for sced	Determine if service action or tracking event
B1811576	Invalid pointer returned from synchronization	Determine if service action or tracking event
B1811577	Failed to connect to network server	Determine if service action or tracking event
B1811578	Failed to receive from network server	Determine if service action or tracking event
B1811579	Failed to send message	Determine if service action or tracking event
B181157a	Reached maximum number of failures for attempts with network server	Determine if service action or tracking event
B181157b	Message Processing Request has an unknown operation	Determine if service action or tracking event
B181157c	Failed to get path from registry	Determine if service action or tracking event
B181157d	Invalid current packet number	Determine if service action or tracking event
B181157e	Failed to reset type in and zero out	Determine if service action or tracking event
B181157f	Failed to zero single device sequence bits	Determine if service action or tracking event
B1811580	Failed to reset single device	Determine if service action or tracking event
B1811581	Failed to reset single VPD device	Determine if service action or tracking event
B1811590	Failed to get reserve for sced	Determine if service action or tracking event
B1811591	Maximum number of pin failures has been reached	Determine if service action or tracking event
B1811596	Failed to get reserve for sced	Determine if service action or tracking event
B1811597	Failed to get reserve for sced	Determine if service action or tracking event
B181159A	Parsing of return packet failed	Determine if service action or tracking event
B181159D	Received an unexpected signal	Determine if service action or tracking event
B1812000	Unexpected signal received	Determine if service action or tracking event
B1812001	Failed to open file	Determine if service action or tracking event
B1812002	Failed to initialize trace	Determine if service action or tracking event
B1812003	No name for thread in trace	Determine if service action or tracking event
B1812004	Error reading from registry	Determine if service action or tracking event
B1812005	Error setting up iterator for SRCs	Determine if service action or tracking event
B1812006	Failed to get SRC from SRC iterator	Determine if service action or tracking event
B1812007	Invalid pointer	Determine if service action or tracking event
B1812008	Failed to lock the mutex	Determine if service action or tracking event
B1812009	Failed to unlock the mutex	Determine if service action or tracking event
B181200a	Error from event manager constructor	Determine if service action or tracking event
B181200b	Error from event management monitor	Determine if service action or tracking event
B181200c	Error from event management signal	Determine if service action or tracking event

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Reference Code	Description	Action
B1812017	Could not initialize queue mutex	Determine if service action or tracking event
B1812018	The condition variables could not be initialized	Determine if service action or tracking event
B1812019	The condition variables could not be destroyed	Determine if service action or tracking event
B181201a	Could not destroy queue mutex	Determine if service action or tracking event
B181201b	A power fault has been detected	Determine if service action or tracking event
B181201c	Failed to wait on thread conditional	Determine if service action or tracking event
B181201d	Failed to write to registry	Determine if service action or tracking event
B181201e	Failed to signal on thread conditional	Determine if service action or tracking event
B181201f	Failed to create notify thread	Determine if service action or tracking event
B1812020	Failed to cancel the threads	Determine if service action or tracking event
B1812021	Failed to set cancel state of thread	Determine if service action or tracking event
B1812023	Failed to join to thread created	Determine if service action or tracking event
B1812024	Failed to communicate with SPCN	Determine if service action or tracking event
B1812025	Failed to stop communication with SPCN	Determine if service action or tracking event
B1812026	Thread is being canceled while in the middle of sending a command to SPCN	Determine if service action or tracking event
B1812027	Server has routed an acknowledgment message to the command queue	Determine if service action or tracking event
B1812028	The command was rejected by SPCN	Determine if service action or tracking event
B1812029	Could not send a message through the interface to SPCN	Determine if service action or tracking event
B181202a	Could not read a message from the interface to SPCN	Determine if service action or tracking event
B181202b	Failed to create network server object	Determine if service action or tracking event
B181202c	Failed to listen to socket for network server	Determine if service action or tracking event
B181202d	Failed process synchronization with client	Determine if service action or tracking event
B181202e	Failed to close network server	Determine if service action or tracking event
B181202f	Failed to connect to network server	Determine if service action or tracking event
B1812030	Failed to receive from network server	Determine if service action or tracking event
B1812031	Failed to bind to socket for network server	Determine if service action or tracking event
B1812032	Incorrect data received	Determine if service action or tracking event
B1812033	The delayed response has been aborted and the caller is prohibited from attempting to update the socket value	Determine if service action or tracking event
B1812034	Failed to get configuration ID from SPCN	Determine if service action or tracking event
B1812035	Failed to set configuration ID	Determine if service action or tracking event
B1812036	Failed to deattach thread	Determine if service action or tracking event
B1812037	Error getting subfunction ranges for SPCN panel function	Determine if service action or tracking event
B1812038	The notification cannot be sent to state manager because the fsp is not in a particular state	Determine if service action or tracking event
B1812039	Error from state manager power off notification	Determine if service action or tracking event

Reference Code	Description	Action
B181203a	Error from state manager power on notification	Determine if service action or tracking event
B181203b	The condition was not satisfied before specified interval	Determine if service action or tracking event
B181203c	Failed to wait for thread conditional	Determine if service action or tracking event
B181203d	Server queue is full	Determine if service action or tracking event
B181203e	Server queue is empty	Determine if service action or tracking event
B181203f	Already started server	Determine if service action or tracking event
B1812040	Unrecognized command	Determine if service action or tracking event
B1812041	Failed to get path from registry	Determine if service action or tracking event
B1812042	Failed direct command to SPCN	Determine if service action or tracking event
B1812043	Failed to get maximum number of RIDs from SVPD	Determine if service action or tracking event
B1812044	Unexpected SVPD data	Determine if service action or tracking event
B1812045	Failed to get RIDs from SVPD	Determine if service action or tracking event
B1812046	Failed to figure out which FSP running on	Determine if service action or tracking event
B1812047	Timed out waiting for an acknowledgment	Determine if service action or tracking event
B1812048	Failed to set UPS status for SPCN	Determine if service action or tracking event
B1812049	Error from SPCN when trying to power off I/O	Determine if service action or tracking event
B181204A	Error from SPCN command line handler	Determine if service action or tracking event
B1812100	Failed to initialize	Determine if service action or tracking event
B1812102	Failure creating thread	Determine if service action or tracking event
B1812103	Pipe system call failed	Determine if service action or tracking event
B1812104	System call failed	Determine if service action or tracking event
B1812105	Select system call failed	Determine if service action or tracking event
B1812106	Invalid parameter passed to function	Determine if service action or tracking event
B1812107	Could not create message queue	Determine if service action or tracking event
B1812108	Received invalid command from RPC device	Determine if service action or tracking event
B1812109	Invalid function ID from message	Determine if service action or tracking event
B181210A	Timeout receive though no timeout was given	Determine if service action or tracking event
B181210B	Expected file descriptor not set after select call	Determine if service action or tracking event
B181210C	Failed to do an I2C slave address change on a redundant FSP failover	Determine if service action or tracking event
B181210D	Could not insert initial events into queue	Determine if service action or tracking event
B181210E	Error removing message from queue	Determine if service action or tracking event
B181210F	Failed to get power state	Determine if service action or tracking event
B1812110	Failed IPL lock function	Determine if service action or tracking event
B1812111	Failed to close network server	Determine if service action or tracking event
B1812112	Error from Event Manager	Determine if service action or tracking event
B1812113	Could not create token queue	Determine if service action or tracking event
B1812114	Could not insert tokens into token queue	Determine if service action or tracking event
B1812115	Over total thread threshold	Determine if service action or tracking event

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Reference Code	Description	Action
B1812201	Failed to open and lock the IPL Lock data file	Determine if service action or tracking event
B1812202	Failed to unlock and/or close the IPL Lock data file	Determine if service action or tracking event
B1812203	Failed to initialize the header of the IPL Lock data file	Determine if service action or tracking event
B1812204	Failed to read from registry	Determine if service action or tracking event
B1812205	Failed to position the cursor in the file or read the header from the file	Determine if service action or tracking event
B1812206	Failed to position the cursor in the file or write the lock information to the file	Determine if service action or tracking event
B1812207	Failed to read lock information	Determine if service action or tracking event
B1812208	Failed to write the new lock information to the IPL Lock data file	Determine if service action or tracking event
B1812209	Failed to read the header in the IPL Lock data file	Determine if service action or tracking event
B181220A	Failed to update new header in IPL Lock data file	Determine if service action or tracking event
B181220B	Invalid parameter passed into function	Determine if service action or tracking event
B181220C	Invalid power state for IPL requested	Determine if service action or tracking event
B181220D	Failed to get current power state of system	Determine if service action or tracking event
B181220E	Failed to open and lock the IPL Lock data file	Determine if service action or tracking event
B181220F	Failed to close and/or unlock the IPL Lock data file	Determine if service action or tracking event
B1812210	No locks exist or the requested lock exceeds the total number of locks that exist	Determine if service action or tracking event
B1812211	A lock by the requesting component still exists and is active	Determine if service action or tracking event
B1812212	An error occurred trying to find the lock for the component	Determine if service action or tracking event
B1812213	Failure to allocate memory for timer thread structure	Determine if service action or tracking event
B1812214	Failure to create timer thread for lock	Determine if service action or tracking event
B1812215	Failure to remove requested lock	Determine if service action or tracking event
B1812216	Component requesting refresh does not have a lock in the IPL Lock data file	Determine if service action or tracking event
B1812218	IPL requested is blocked due to an IPL lock	Determine if service action or tracking event
B1812219	Value passed in to set Power IPL in Progress to was out of range	Determine if service action or tracking event
B181221A	Emergency IPL was received and locks were bypassed	Determine if service action or tracking event
B181221B	IPL was rejected by State Manager or the acknowledge was not accepted	Determine if service action or tracking event
B181221C	A Power IPL has already been requested and queued	Determine if service action or tracking event
B181221D	Failed to send Power On event to Panel for requested IPL	Determine if service action or tracking event
B181221E	Failed to send Power Off event to Panel	Determine if service action or tracking event

Reference Code	Description	Action
B181221F	Failed fork system call	Determine if service action or tracking event
B1812220	Failed to start IPL Power process due to not being able to replace current executable with IPL Power process	Determine if service action or tracking event
B1812221	Invalid argument was passed into the timer thread	Determine if service action or tracking event
B1812222	Invalid signal received	Determine if service action or tracking event
B1812223	Failure to detach timer thread so memory resources will not be freed upon termination of the timer thread	Determine if service action or tracking event
B1812224	A Power IPL is in progress	Determine if service action or tracking event
B1812225	Failed to get Power IPL in Progress indicator	Determine if service action or tracking event
B1812226	Failed to write to Power IPL in Progress registry variable	Determine if service action or tracking event
B1812227	Failed to indicate that a Power IPL will be in progress	Determine if service action or tracking event
B1812228	Failed to get current and next state	Determine if service action or tracking event
B1812229	Failed to read current FSP Role from registry	Determine if service action or tracking event
B181222A	An invalid pointer was passed into the function	Determine if service action or tracking event
B181222B	Failed to determine the size of the IPL Lock data file	Determine if service action or tracking event
B181222C	An error occurred trying to get current ticks	Determine if service action or tracking event
B1812300	Unexpected signal received	Determine if service action or tracking event
B1812301	Failed fork operation	Determine if service action or tracking event
B1812304	Error while querying for CEC termination	Determine if service action or tracking event
B1812305	Synchronization with State Manager failed	Determine if service action or tracking event
B1812306	Failed to read maximum size of error	Determine if service action or tracking event
B1812307	Failed to write to registry	Determine if service action or tracking event
B1812308	Error creating termination iterator	Determine if service action or tracking event
B1812309	Failed to read termination SRC	Determine if service action or tracking event
B181230B	Failed to read path from registry	Determine if service action or tracking event
B181230C	Error from event monitor	Determine if service action or tracking event
B181230D	Server not ready or daemon is not running	Determine if service action or tracking event
B181230E	Failed to synchronize with client	Determine if service action or tracking event
B181230F	Error returned from IPL lock function	Determine if service action or tracking event
B1812311	Error from event manager constructor	Determine if service action or tracking event
B1812401	Failed to write WOL Policy to registry	Determine if service action or tracking event
B1812402	Failed to read WOL Policy from registry	Determine if service action or tracking event
B1812403	Failed to HIGH-LOW-HIGH the Wake on LAN reset line	Determine if service action or tracking event
B1812404	Failure to setup Wake on LAN reset line	Determine if service action or tracking event
B1812405	Failed to get current power state, so we were not able to activate the Wake on LAN hardware	Determine if service action or tracking event

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Reference Code	Description	Action
B1812406	Invalid signal received	Determine if service action or tracking event
B1812407	Failed to activate Wake on LAN hardware	Determine if service action or tracking event
B1812408	Failed to IPL the system via Wake on LAN	Determine if service action or tracking event
B1812409	Failed to get Wake on LAN Policy	Determine if service action or tracking event
B181240A	The value for the Wake on LAN Policy is out of range for what is acceptable	Determine if service action or tracking event
B181240B	Failed fork system call	Determine if service action or tracking event
B181240C	An error was returned as we tried to wait for the Wake on LAN interrupt line	Determine if service action or tracking event
B181240D	An error occurred processing the Wake on LAN interrupt	Determine if service action or tracking event
B181240E	Failed to get root path from the registry.	Determine if service action or tracking event
B181240F	A daemon is already up and running	Determine if service action or tracking event
B1812410	Failed to create the daemon synchronization file	Determine if service action or tracking event
B1812411	Due to the type of machine, the Wake on LAN functionality is not supported	Determine if service action or tracking event
B1812412	Failed to read current state data from registry	Determine if service action or tracking event
B1812413	Failed to read FSP Role from registry	Determine if service action or tracking event
B1812414	Failed to read machine model type from registry	Determine if service action or tracking event
B1812415	Failed to read operational mode from registry	Determine if service action or tracking event
B1813001	Someone is already updating code	Determine if service action or tracking event
B1813002	Registry read fails	Determine if service action or tracking event
B1813003	Registry write fails	Determine if service action or tracking event
B1813006	Lid Entry is not found. The specified Lid number is not in the specified Masterlid file	Determine if service action or tracking event
B1813007	Invalid Lid number	Determine if service action or tracking event
B1813008	Lid is not valid	Determine if service action or tracking event
B1813009	Request to update the wrong lid	Determine if service action or tracking event
B181300A	Requestor did not start the update	Determine if service action or tracking event
B181300C	Type of code update is already set	Determine if service action or tracking event
B181300D	Invalid flash side	Determine if service action or tracking event
B181300E	In correct flash side	Determine if service action or tracking event
B181300F	Header has invalid magic number	Determine if service action or tracking event
B1813010	System command fails to remove a file	Determine if service action or tracking event
B1813011	File open error	Determine if service action or tracking event
B1813012	Lid does not exist	Determine if service action or tracking event
B1813013	Someone is currently updating the specified lid	Determine if service action or tracking event
B1813014	Request IPL lock or unlock fails	Determine if service action or tracking event
B1813015	Lid class is invalid	Determine if service action or tracking event
B1813016	Specified buffer is too small for the requesting data	Determine if service action or tracking event
B181301F	Updating on the running side is not allowed	Determine if service action or tracking event

Reference Code	Description	Action
B1813020	Update good flash side, when other side is invalid	Determine if service action or tracking event
B1813022	CRC miscompare	Determine if service action or tracking event
B1813025	Invalid data size is detected	Determine if service action or tracking event
B1813028	IPL lock refresh fails	Determine if service action or tracking event
B1813029	Invalid component id	Determine if service action or tracking event
B181302A	Lid is currently being modified by someone	Determine if service action or tracking event
B1813030	Invalid code type	Determine if service action or tracking event
B1813031	Invalid Marker Lid version	Determine if service action or tracking event
B1813034	Invalid operation state	Determine if service action or tracking event
B1813035	Offset is exceeding the file size	Determine if service action or tracking event
B1813036	Someone requests code update termination	Determine if service action or tracking event
B1813038	Unable to create event	Determine if service action or tracking event
B1813039	Unable to create thread to monitor the power lock timeout	Determine if service action or tracking event
B181303a	Lid does not belong to FSP	Determine if service action or tracking event
B181303b	The power log flag is not set	Determine if service action or tracking event
B181303d	Invalid data	Determine if service action or tracking event
B181303e	Function call fails	Determine if service action or tracking event
B181303f	Reading offset to partition table failed	Determine if service action or tracking event
B1813040	Write the partition name to a specific partition table entry failed	Determine if service action or tracking event
B1813041	Seek file from the end of file failed	Determine if service action or tracking event
B1813042	The status of the MTD device failed	Determine if service action or tracking event
B1813043	Invalid Genus size	Determine if service action or tracking event
B1813044	Incorrect file for update	Determine if service action or tracking event
B1813045	Unable to find keyword that indicate bank id	Determine if service action or tracking event
B1813047	The system has redundant FSP	Determine if service action or tracking event
B1813048	The specified arguments for major/minor number are out of range	Determine if service action or tracking event
B1813049	The filename that is passed in does not start with a '/'	Determine if service action or tracking event
B181304a	The status of the MTD device failed	Determine if service action or tracking event
B181304f	Invalid operation	Determine if service action or tracking event
B1813050	Unknown signal	Determine if service action or tracking event
B1813501	Error in call to other component interface	Determine if service action or tracking event
B1813503	Error received from sibling FSP	Determine if service action or tracking event
B1813509	Error setting network parameters for various ethernet interface	Determine if service action or tracking event
B181350B	Error creating network client object	Determine if service action or tracking event
B181350C	We detected a sibling but the communication broke down in between	Determine if service action or tracking event

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Reference Code	Description	Action
B181350D	Error configuring various ethernet interface	Determine if service action or tracking event
B181350F	Error in call to other component interface	Determine if service action or tracking event
B1813511	Error sending data to sibling	Determine if service action or tracking event
B1813515	Error obtaining mux information	Determine if service action or tracking event
B1813516	Error in interface call to other component	Determine if service action or tracking event
B1813519	Bad command received from sibling FSP	Determine if service action or tracking event
B181351A	Communication to sibling failed	Determine if service action or tracking event
B181351B	Error reading FSP State	Determine if service action or tracking event
B181351C	Error waiting for an event	Determine if service action or tracking event
B181351E	Error getting time of day	Determine if service action or tracking event
B181351F	Error setting time of day	Determine if service action or tracking event
B1813520	Error indicating that sibling FSP was already garded	Determine if service action or tracking event
B1813521	Error creating a event object	Determine if service action or tracking event
B1813523	Error creating network client object	Determine if service action or tracking event
B1813524	We detected a sibling but the communication broke down in between	Determine if service action or tracking event
B1813525	We detected a sibling but the communication broke down in between	Determine if service action or tracking event
B1813527	Failed to read from registry	Determine if service action or tracking event
B1813528	Failed to read size from registry	Determine if service action or tracking event
B1813529	We detected a sibling but the communication broke down in between	Determine if service action or tracking event
B181352A	Error reading registry entry size	Determine if service action or tracking event
B181352B	Error writing pass phrase to registry entry	Determine if service action or tracking event
B181352C	Error reading sibling ethernet port 0 registry entry	Determine if service action or tracking event
B181352D	Error writing to sibling ethernet port 0 registry entry	Determine if service action or tracking event
B181352E	Error reading sibling ethernet port 1 registry entry.	Determine if service action or tracking event
B181352F	Error writing to sibling ethernet port 1 registry entry.	Determine if service action or tracking event
B1813531	Error writing MTMS to file	Determine if service action or tracking event
B1813532	Error reading registry entry size	Determine if service action or tracking event
B1813533	Error reading registry entry	Determine if service action or tracking event
B1813534	Error reading/writing from file	Determine if service action or tracking event
B1813535	Error reading/writing from file	Determine if service action or tracking event
B1813536	Error reading/writing from file	Determine if service action or tracking event
B1813537	Error reading/writing from file	Determine if service action or tracking event
B1813538	Error reading/writing from file	Determine if service action or tracking event
B1813539	Error reading/writing from file	Determine if service action or tracking event

Reference Code	Description	Action
B181353A	Error reading/writing from file	Determine if service action or tracking event
B181353B	Error reading/writing from file	Determine if service action or tracking event
B181353C	Error in network operation	Determine if service action or tracking event
B181353D	Error in network operation	Determine if service action or tracking event
B181353E	Error in network operation	Determine if service action or tracking event
B181353F	Error in network operation	Determine if service action or tracking event
B1813540	Error in network operation	Determine if service action or tracking event
B1813541	Error in network operation	Determine if service action or tracking event
B1813542	Error in network operation	Determine if service action or tracking event
B1813543	Error in network operation	Determine if service action or tracking event
B1813544	Error in network operation	Determine if service action or tracking event
B1813545	Error in network operation	Determine if service action or tracking event
B1813546	Error in network operation	Determine if service action or tracking event
B1813547	Error in network operation	Determine if service action or tracking event
B181354A	Error in network operation	Determine if service action or tracking event
B181354B	Error in call to other component interface	Determine if service action or tracking event
B181354C	Error in network operation	Determine if service action or tracking event
B181354D	Error in call to other component interface	Determine if service action or tracking event
B1813550	Error in network operation	Determine if service action or tracking event
B1813551	Error in call to other component interface	Determine if service action or tracking event
B1813552	Error in network operation	Determine if service action or tracking event
B1813553	Error in call to other component interface	Determine if service action or tracking event
B1813554	Error in network operation	Determine if service action or tracking event
B1813555	Error in call to other component interface	Determine if service action or tracking event
B1813556	Error in network operation	Determine if service action or tracking event
B1813557	Error in network operation	Determine if service action or tracking event
B1813558	Error in reading FSP Role registry	Determine if service action or tracking event
B1813559	Error in call to other component interface	Determine if service action or tracking event
B181355C	Error in call to other component interface	Determine if service action or tracking event
B181355D	Error in call to other component interface	Determine if service action or tracking event
B181355E	Error in call to other component interface	Determine if service action or tracking event
B181355F	Error in call to other component interface	Determine if service action or tracking event
B1813560	Error in call to other component interface	Determine if service action or tracking event
B1813561	Error in call to other component interface	Determine if service action or tracking event
B1813562	Error in network operation	Determine if service action or tracking event
B1813563	Error in call to other component interface	Determine if service action or tracking event
B1813564	Error in call to other component interface	Determine if service action or tracking event
B1813569	Error in network operation	Determine if service action or tracking event
B181356A	Error writing MTMS to file	Determine if service action or tracking event
B181356F	Error reading/writing from file	Determine if service action or tracking event

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Reference Code	Description	Action
B1813570	Error reading/writing from file	Determine if service action or tracking event
B1813579	Error setting network parameters for various ethernet interface	Determine if service action or tracking event
B181357A	Error in interface call to other component	Determine if service action or tracking event
B181357B	Error trying to setup initial communication between FSP's	Determine if service action or tracking event
B181357C	Error in call to other component interface	Determine if service action or tracking event
B181357D	Error in call to other component interface	Determine if service action or tracking event
B181357E	Error in interface call to other component	Determine if service action or tracking event
B181357F	Error starting Surveillance	Determine if service action or tracking event
B1813580	Error in call to other component interface	Determine if service action or tracking event
B1813581	Error in network operation	Determine if service action or tracking event
B1813582	Error in network operation	Determine if service action or tracking event
B1813583	Error in interface call to other component	Determine if service action or tracking event
B1813584	Error sending data to sibling	Determine if service action or tracking event
B1813585	Error sending data to sibling	Determine if service action or tracking event
B1813586	Error sending data to sibling	Determine if service action or tracking event
B1813587	Error sending data to sibling	Determine if service action or tracking event
B1813588	Error sending data to sibling	Determine if service action or tracking event
B1813589	Error sending data to sibling	Determine if service action or tracking event
B181358A	Error in call to other component interface	Determine if service action or tracking event
B181358B	Error in call to other component interface	Determine if service action or tracking event
B181358C	Error in interface call to other component	Determine if service action or tracking event
B181358D	Error while making open call to I2C adal	Determine if service action or tracking event
B181358F	Error while making open call to I2C adal	Determine if service action or tracking event
B1813591	Error while making open call to I2C adal	Determine if service action or tracking event
B1813592	Sibling FSP is expected but not present	Determine if service action or tracking event
B1813593	Error in call to other component interface	Determine if service action or tracking event
B1813594	Error in call to other component interface	Determine if service action or tracking event
B1813595	Discovery abort was requested	Determine if service action or tracking event
B1813596	Error in call to other component interface	Determine if service action or tracking event
B1813597	Error in putting message in message queue	Determine if service action or tracking event
B181359A	Error while making open call to I2C adal	Determine if service action or tracking event
B181359B	Error while making open call to I2C adal	Determine if service action or tracking event
B181359E	Error setting up passwords	Determine if service action or tracking event
B181359F	Error closing client socket	Determine if service action or tracking event
B18135A0	Error closing server socket	Determine if service action or tracking event
B18135A1	Invalid request to Discovery thread	Determine if service action or tracking event
B18135A2	Eth0 IP address on FSP-B was set to default	Determine if service action or tracking event
B18135A3	Eth1 IP address on FSP-B was set to default	Determine if service action or tracking event
B18135A4	Error while making open call to I2C adal	Determine if service action or tracking event

Reference Code	Description	Action
B18135A5	Exceeded maximum number of retries for communication errors between FSP's in various states	Determine if service action or tracking event
B18135A6	Error in interface call to other component	Determine if service action or tracking event
B18135A7	Error in interface call to other component	Determine if service action or tracking event
B18135A8	Error in interface call to other component	Determine if service action or tracking event
B18135A9	Both FSPs were reset	Determine if service action or tracking event
B18135AA	Both FSPs were reset	Determine if service action or tracking event
B18135AB	Both FSPs were reset	Determine if service action or tracking event
B18135AC	Error sending data to sibling	Determine if service action or tracking event
B18135AD	Error reading registry	Determine if service action or tracking event
B18135AE	Error exchanging data with sibling	Determine if service action or tracking event
B18135AF	Error receiving data from sibling	Determine if service action or tracking event
B18135B0	Error writing registry	Determine if service action or tracking event
B18135B1	Error receiving data from sibling	Determine if service action or tracking event
B18135B2	Error exchanging data to/from sibling	Determine if service action or tracking event
B18135B3	Error in data received from sibling	Determine if service action or tracking event
B18135B4	Error receiving data from sibling	Determine if service action or tracking event
B18135B5	Error in call to other component interface	Determine if service action or tracking event
B18135B6	Error in call to other component interface	Determine if service action or tracking event
B18135B7	Error in call to other component interface	Determine if service action or tracking event
B18135B8	Error receiving data from sibling	Determine if service action or tracking event
B18135B9	Error receiving data from sibling	Determine if service action or tracking event
B18135BA	Error sending data to sibling	Determine if service action or tracking event
B18135BB	Error writing registry	Determine if service action or tracking event
B18135BC	Error receiving data from sibling	Determine if service action or tracking event
B18135BD	Error sending data to sibling	Determine if service action or tracking event
B18135BE	Error receiving data from sibling	Determine if service action or tracking event
B18135BF	Error receiving data from sibling	Determine if service action or tracking event
B18135C0	Error receiving data from sibling	Determine if service action or tracking event
B18135C1	Eth1 IP address on FSP-B was set to default	Determine if service action or tracking event
B18135C2	Eth1 IP address on FSP-B was set to default	Determine if service action or tracking event
B18135C3	Reset of both FSPs. Possible new role assigned to FSP-A	Determine if service action or tracking event
B18135C4	Reset of both FSPs. Possible new role assigned to FSP-A	Determine if service action or tracking event
B18135C5	Reset of both FSPs. Possible new role assigned to FSP-A	Determine if service action or tracking event
B18135C8	Gard did not return back a status but indicated a failure in the output parameter of their routine	Determine if service action or tracking event
B18135C9	Error in call to other component interface	Determine if service action or tracking event
B18135CA	Error in call to other component interface	Determine if service action or tracking event

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Reference Code	Description	Action
B18135CB	Error in call to other component interface	Determine if service action or tracking event
B18135CC	Error in call to other component interface	Determine if service action or tracking event
B18135CD	Error in putting message in message queue	Determine if service action or tracking event
B18135CE	Error from network client gateway	Determine if service action or tracking event
B18135CF	Error from network client gateway	Determine if service action or tracking event
B18135D0	Registry entry indicates that a serial communication error is to be simulated	Determine if service action or tracking event
B18135D1	Error reading serial error injection registry	Determine if service action or tracking event
B18135D2	Error in putting message in message queue	Determine if service action or tracking event
B18135D3	Error in putting message in message queue	Determine if service action or tracking event
B18135D4	Error in call to other component interface	Determine if service action or tracking event
B18135D7	Error while making open call to I2C adal	Determine if service action or tracking event
B18135D8	Error in interface call to other component	Determine if service action or tracking event
B18135D9	Error in interface call to other component	Determine if service action or tracking event
B18135DA	Error in interface call to other component	Determine if service action or tracking event
B18135DB	Error indicating that sibling FSP was already garded	Determine if service action or tracking event
B1814000	Invalid command	Determine if service action or tracking event
B1814001	Missing argument	Determine if service action or tracking event
B1814002	Invalid argument	Determine if service action or tracking event
B1814003	Invalid data received for process message operation number	Determine if service action or tracking event
B1814004	Wrong number of arguments given to command	Determine if service action or tracking event
B1814005	An error occurred reserving the semaphore	Determine if service action or tracking event
B1814006	Received unexpected signal	Determine if service action or tracking event
B1814006	Receive unexpected signal	Determine if service action or tracking event
B1814007	A side switching IPL is not allowed for the given type of CEC IPL	Determine if service action or tracking event
B1814008	A side switching IPL is needed, but the code is not valid on that side	Determine if service action or tracking event
B1814008	A side switch reboot could not be performed because the code is not valid on the new next side	Determine if service action or tracking event
B1814016	Invalid data was received for next system operation mode	Determine if service action or tracking event
B1814016	Invalid data was received for system click to accept state	Determine if service action or tracking event
B1814017	Invalid data was received for next platform IPL side	Determine if service action or tracking event
B1814018	Invalid data was received for next system IPL mode	Determine if service action or tracking event
B1814019	Invalid data was received for next platform IPL speed	Determine if service action or tracking event

Reference Code	Description	Action
B181401A	Invalid data was received for next platform IPL speed override	Determine if service action or tracking event
B181401B	Invalid data was received for next Hypervisor IPL state	Determine if service action or tracking event
B181401C	Invalid data was received for next RPA partition IPL mode	Determine if service action or tracking event
B181401D	Invalid data was received for next CEC LMB size	Determine if service action or tracking event
B1814021	The daemon could not get the lock	Determine if service action or tracking event
B1814022	Failed fork system call	Determine if service action or tracking event
B1814023	The daemon rebooted the FSP to Standby because the P2 registry data that controls labeling of Permanent and Temporary Flash images was replaced with P3 registry backup data.	Determine if service action or tracking event
B1814025	Called interface not supported in context	Determine if service action or tracking event
B1815001	Received unexpected signal	Determine if service action or tracking event
B1815005	Invalid data received	Determine if service action or tracking event
B1815006	An attempt was made to write to the system clock without proper user authority	Determine if service action or tracking event
B1815007	The GPIO ADAL returned an error while reading the battery alert pin	Determine if service action or tracking event
B1815008	A registry read error occurred	Determine if service action or tracking event
B181501B	An undefined operation was requested	Determine if service action or tracking event
B181501C	Error reading using Time of Day ADAL	Determine if service action or tracking event
B181501D	Error writing using Time of Day ADAL	Determine if service action or tracking event
B181501E	Error writing using Time of Day ADAL	Determine if service action or tracking event
B1815021	The daemon could not get the lock	Determine if service action or tracking event
B1815022	Failed fork system call	Determine if service action or tracking event
B1815025	Failed to create thread	Determine if service action or tracking event
B1815026	The elapsed time since IPL Parameters time data was built was calculated with the RTC and TOD counter. The two results are off by more than 8 seconds.	Determine if service action or tracking event
B1815027	The TOD counter was checked after writing, and was off by more than 65536 ticks (0.524 sec).	Determine if service action or tracking event
B1815029	Failed to create RMGR synchronization thread	Determine if service action or tracking event
B1816009	Invalid state set for State Manager	Determine if service action or tracking event
B1816010	Invalid current and next state	Determine if service action or tracking event
B181601C	Failed to decode reset values	Determine if service action or tracking event
B181601E	System was powered on with failover disabled, when there is a valid sibling Service Processor that could be used for failover.	Determine if service action or tracking event
B1816030	Invalid character	Determine if service action or tracking event
B1817000	Failure to create thread	Determine if service action or tracking event
B1817003	Failed network server connection	Determine if service action or tracking event

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Reference Code	Description	Action
B1817004	Failed to receive message from network	Determine if service action or tracking event
B1817005	Failed to close network connection	Determine if service action or tracking event
B1817006	Failure to establish communications pipe	Determine if service action or tracking event
B1817007	PHYP was not ready to be communicated with	Determine if service action or tracking event
B1817008	Failed to write data	Determine if service action or tracking event
B1817009	Failure reading data	Determine if service action or tracking event
B181700A	Load SRC failed	Determine if service action or tracking event
B181700D	Failed to read from or write to registry	Determine if service action or tracking event
B1817010	Error reading data from server communications pipe	Determine if service action or tracking event
B1817011	Data size mismatch	Determine if service action or tracking event
B1817012	Error/Event notification throughout the system has failed for the given platform event log	Determine if service action or tracking event
B1817013	Failed to scan for error/event logs	Determine if service action or tracking event
B1817015	Error while attempting to change state	Determine if service action or tracking event
B1817016	Corrupt input data	Determine if service action or tracking event
B1817018	A log was picked up and the unique id assigned to it is zero	Determine if service action or tracking event
B1817019	Error received while attempting to turn on virtual platform service indicator	Determine if service action or tracking event
B181701A	The section identifier read from the data does not match the section id of the current object	Determine if service action or tracking event
B181701B	Invalid section size detected	Determine if service action or tracking event
B181701C	Section version mismatch	Determine if service action or tracking event
B181701D	Section count mismatch	Determine if service action or tracking event
B181701E	Failed to send or receive on network	Determine if service action or tracking event
B181701F	Unhandled signal received	Determine if service action or tracking event
B1817020	Invalid input or data	Determine if service action or tracking event
B1817021	File system failure	Determine if service action or tracking event
B1817022	FSP call home attempt has failed	Determine if service action or tracking event
B1817024	Failed to initialize the history log, logging cannot continue if the physical file cannot be initialized	Determine if service action or tracking event
B1817025	Request to clear error/event logs has been processed	Determine if service action or tracking event
B1817026	Error/Event logging server started	Determine if service action or tracking event
B1817028	Error/Event log created from system log message	Determine if service action or tracking event
B1817029	Linux system call failed	Determine if service action or tracking event
B181702A	Error unloading virtual headers due to lack of file allocation space	Determine if service action or tracking event
B181702B	Timeout waiting for sibling FSP command to complete	Determine if service action or tracking event
B181703E	Unknown failure	Determine if service action or tracking event
B1817102	Failed to setup process error recovery	Determine if service action or tracking event

Reference Code	Description	Action
B1817107	Host driver or registry failure	Determine if service action or tracking event
B181710B	Event manager failed	Determine if service action or tracking event
B181710D	Event detection failed	Determine if service action or tracking event
B1817112	Software failure resulted in a signal	Determine if service action or tracking event
B1817113	Event loop exited	Determine if service action or tracking event
B1817114	Failed to change directory	Determine if service action or tracking event
B1817115	Failed to set session identity	Determine if service action or tracking event
B1817200	User requested to boot from a side that is marked invalid	FSPSP02
B1817201	FSP had a kernel panic during last boot	FSPSP02
B1817202	Both FSP code banks are marked invalid	FSPSP02
B1817203	Error writing to Persistent Control Store (PCS)	FSPSP02
B1817204	Error reading from PCS	FSPSP02
B1817205	FSP Boot code failed during last boot causing the FSP to reset again	FSPSP02
B1817206	FSP had a Unit check timer reset	FSPSP02
B1817209	FSP had a Watchdog timeout reset	FSPSP02
B181720A	FSP had an internal hardware error	FSPSP02
B1818103	Failed to write to registry	Determine if service action or tracking event
B1818106	Invalid bus owner argument	Determine if service action or tracking event
B1818107	Invalid number of command line arguments	Determine if service action or tracking event
B1818108	No argument value for --r option	Determine if service action or tracking event
B1818109	Multiple -c arguments	Determine if service action or tracking event
B181810A	-s option specified with -c	Determine if service action or tracking event
B181810B	Multiple -s arguments	Determine if service action or tracking event
B181810C	-c options specified with -s	Determine if service action or tracking event
B181810D	Invalid command line option	Determine if service action or tracking event
B181810E	Non-option element(s)	Determine if service action or tracking event
B181810F	Null input numeric string	Determine if service action or tracking event
B1818110	Empty input numeric string	Determine if service action or tracking event
B1818111	Invalid character encountered in conversion	Determine if service action or tracking event
B1818114	Failed to stop instructions	Determine if service action or tracking event
B1818115	Failed to send signal for event manager	Determine if service action or tracking event
B1818116	Failed to get processor state	Determine if service action or tracking event
B1818203	Requested index is out of range	Determine if service action or tracking event
B1818204	Failed to open given directory	Determine if service action or tracking event
B1818211	Could not understand operation requested	Determine if service action or tracking event
B1818212	Unexpected result	Determine if service action or tracking event
B1818213	Invalid data	Determine if service action or tracking event
B1818214	Incorrect input size (too small or too large)	Determine if service action or tracking event
B1818215	A generic stream failure has been detected	Determine if service action or tracking event

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Reference Code	Description	Action
B1818216	Failed to write to file	Determine if service action or tracking event
B1818217	The Callout substructure cannot be identified	Determine if service action or tracking event
B1818218	Unhandled signal received	Determine if service action or tracking event
B1818301	Already in the terminate state	Determine if service action or tracking event
B1818302	Already in the power off state	Determine if service action or tracking event
B1818303	Currently processing a power off request from SPCN	Determine if service action or tracking event
B1818304	Currently processing an FSP terminate request from another component	Determine if service action or tracking event
B1818305	Failed state manager termination request	Determine if service action or tracking event
B1818307	Failed power transition request	Determine if service action or tracking event
B1818309	Too many client connections	Determine if service action or tracking event
B181830B	Thread timed out while waiting for another busy thread to complete	Determine if service action or tracking event
B181830D	Client request thread started with invalid pointer	Determine if service action or tracking event
B181830E	Another instance of the server is already running	Determine if service action or tracking event
B1818310	Timed out waiting for thread conditional	Determine if service action or tracking event
B1818312	Failed to receive on network	Determine if service action or tracking event
B1818313	Failed to connect to server over network	Determine if service action or tracking event
B1818316	Failed to trace SRC on termination trace	Determine if service action or tracking event
B1818317	Failed to read the registry	Determine if service action or tracking event
B1818318	Could not update the CEC termination state	Determine if service action or tracking event
B181831A	No log passed in. Will use default log to terminate system.	Determine if service action or tracking event
B181831C	Couldn't retrieve the embedded SRC from error log	Determine if service action or tracking event
B181831D	Failed to initialize thread attributes	Determine if service action or tracking event
B181831E	Failed to set deattach state for thread	Determine if service action or tracking event
B1818320	Failed to bind socket	Determine if service action or tracking event
B1818321	Failed to lock the mutex	Determine if service action or tracking event
B1818322	Could not cancel all the client request processing threads	Determine if service action or tracking event
B1818323	Unknown error	Determine if service action or tracking event
B1818328	Could not unflatten log object from the received byte stream	Determine if service action or tracking event
B1818329	Log size maximum is less than the client data length	Determine if service action or tracking event
B181832A	Zero data length	Determine if service action or tracking event
B181832C	Failed to construct event manager	Determine if service action or tracking event
B1818330	Failed to bind socket	Determine if service action or tracking event
B1818331	Failed to create thread	Determine if service action or tracking event
B1818333	Cannot reset CEC termination in the middle of a power fault request	Determine if service action or tracking event

Reference Code	Description	Action
B1818336	Unknown FSP role returned	Determine if service action or tracking event
B1818337	Already in the terminated state with force failover option	Determine if service action or tracking event
B1818338	Currently processing an FSP terminate request with force failover option from another component	Determine if service action or tracking event
B1818341	Failed to flatten log	Determine if service action or tracking event
B1818344	Bad length on flattened log	Determine if service action or tracking event
B1818345	Server aborted or failed to connect to network	Determine if service action or tracking event
B1818346	Server aborted or failed to send or receive on the network	Determine if service action or tracking event
B1818347	Server not running	Determine if service action or tracking event
B181834A	P0 root path not defined	Determine if service action or tracking event
B1818500	Incorrect number of arguments	Determine if service action or tracking event
B1818501	The caller wanted to get event related data but the buffer pointer is invalid	Determine if service action or tracking event
B1818502	The daemon received a message with an invalid function field	Determine if service action or tracking event
B1818503	Error returned from another component	Determine if service action or tracking event
B1818504	Failed system call	Determine if service action or tracking event
B1818505	Failed fork system call	Determine if service action or tracking event
B1818507	Error trying to forward an event to 1 or more subscribers	Determine if service action or tracking event
B1818508	The id of a tool request is invalid	Determine if service action or tracking event
B1818509	Unexpected signal received	Determine if service action or tracking event
B181850E	The user specified a time limit to wait for an event and limit was reached	Determine if service action or tracking event
B181850F	Another thread is waiting	Determine if service action or tracking event
B1818600	Application has received an unexpected signal	Determine if service action or tracking event
B181860D	Application has not setup process error recovery	Determine if service action or tracking event
B181860E	Killing process without having process error recovery setup	Determine if service action or tracking event
B181860F	Process continues to get killed. Caught in a loop.	Determine if service action or tracking event
B1818610	Application has received an unexpected signal	Determine if service action or tracking event
B1818700	Error in selecting communicating socket	Determine if service action or tracking event
B1818701	Failed to listen to socket for network server	Determine if service action or tracking event
B1818702	Failed to bind to socket for network server	Determine if service action or tracking event
B1818703	Failed to bind for TCP/IP	Determine if service action or tracking event
B1818704	Error in accepting socket	Determine if service action or tracking event
B1818705	Error in processing message from serial	Determine if service action or tracking event
B1818706	Error in accepting socket	Determine if service action or tracking event
B1818708	Error creating unique key for message queue	Determine if service action or tracking event
B1818709	Error in creating message queue	Determine if service action or tracking event

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Reference Code	Description	Action
B181870A	Error in queueing messages	Determine if service action or tracking event
B181870B	Error in receiving message from queue when processing message	Determine if service action or tracking event
B181870C	Failed to read registry	Determine if service action or tracking event
B181870D	Error in creating inbound thread	Determine if service action or tracking event
B181870F	Error in inbound connection	Determine if service action or tracking event
B1818711	Error in receiving messages	Determine if service action or tracking event
B1818714	Error processing message	Determine if service action or tracking event
B1818718	Error in send message in DVS	Determine if service action or tracking event
B181871B	Failed to destroy old message queue	Determine if service action or tracking event
B181871E	Error in IPC address creation	Determine if service action or tracking event
B181871F	Error in closing inbound socket	Determine if service action or tracking event
B1818728	Can't remove the previous mount	Determine if service action or tracking event
B181872A	Failed in registry read	Determine if service action or tracking event
B181872C	Failed in file write	Determine if service action or tracking event
B181872E	Can't activate user configuration setup file	Determine if service action or tracking event
B1818730	Error in writing system name	Determine if service action or tracking event
B1818731	Invalid user	Determine if service action or tracking event
B1818736	Failed to set user password	Determine if service action or tracking event
B1818737	Failed to validate password	Determine if service action or tracking event
B1818738	Error in initial outbound remote thread setup	Determine if service action or tracking event
B1818739	Failed to kill thread in outbound	Determine if service action or tracking event
B181873A	Failure from remote message object	Determine if service action or tracking event
B181873B	Failed to requeue message	Determine if service action or tracking event
B181873C	Error in operation should not kill	Determine if service action or tracking event
B181873D	Failed to destroy old message queue	Determine if service action or tracking event
B181873F	Failed to create thread	Determine if service action or tracking event
B1818740	Failed to create thread	Determine if service action or tracking event
B1818748	Failed to read from registry	Determine if service action or tracking event
B181874C	Serial message is invalid	Determine if service action or tracking event
B1818752	Failed to open port for connection	Determine if service action or tracking event
B1818753	Failed to configure baud for UART	Determine if service action or tracking event
B1818755	Failed to set status field to failure for PHYP	Determine if service action or tracking event
B1818756	Failed to verify dynamic password	Determine if service action or tracking event
B1818759	Failed to write password signature	Determine if service action or tracking event
B1818760	Failed to write Manufacturing password signature	Determine if service action or tracking event
B1818762	Failed to configure parity for UART	Determine if service action or tracking event
B1818763	Failed to configure UART to transmit normal	Determine if service action or tracking event
B1818764	Failed to auto receive on UART	Determine if service action or tracking event

Reference Code	Description	Action
B1818765	Failed to configure UART to transmit automatically	Determine if service action or tracking event
B1818767	Error from perc	Determine if service action or tracking event
B1818768	Error in getting machine type VPD	Determine if service action or tracking event
B1818769	Error in getting machine serial number	Determine if service action or tracking event
B181876A	Error in reading machine brand name	Determine if service action or tracking event
B181876B	Error initializing network serial server daemon	Determine if service action or tracking event
B181876C	Failed to get a file descriptor	Determine if service action or tracking event
B181876D	Error from status of file	Determine if service action or tracking event
B181876E	Improper error path	Determine if service action or tracking event
B181876F	Failed to write Manufacturing password signature	Determine if service action or tracking event
B1818770	Illegal socket descriptor selected	Determine if service action or tracking event
B1818771	Improper error path	Determine if service action or tracking event
B1818772	Failed to get registry key status information	Determine if service action or tracking event
B1818773	Failed to get registry key status information	Determine if service action or tracking event
B1818776	Failed to configure UART	Determine if service action or tracking event
B1818777	Failed to configure UART for loop back	Determine if service action or tracking event
B1818778	Failed to configure UART	Determine if service action or tracking event
B1818780	Failed to read registry	Determine if service action or tracking event
B1818781	Failed to open file	Determine if service action or tracking event
B1818782	Failed to get file handle	Determine if service action or tracking event
B1818783	Socket creation failed	Determine if service action or tracking event
B1818785	Socket bind error	Determine if service action or tracking event
B1818786	Failed in socket listen	Determine if service action or tracking event
B1818787	Failed in file write	Determine if service action or tracking event
B1818788	Invalid client name length	Determine if service action or tracking event
B181878A	Failure to get free entry	Determine if service action or tracking event
B181878C	Failed in registry read	Determine if service action or tracking event
B181878D	Update session entry failure	Determine if service action or tracking event
B181878E	Session entry read failed	Determine if service action or tracking event
B181878F	Invalid lookup entry for maximum entry	Determine if service action or tracking event
B1818791	Failed to seek file offset	Determine if service action or tracking event
B1818792	Session entry not found	Determine if service action or tracking event
B1818793	Session entry read failed	Determine if service action or tracking event
B1818795	Failed to seek session entry	Determine if service action or tracking event
B1818796	Update session write failed	Determine if service action or tracking event
B1818797	Invalid process id value	Determine if service action or tracking event
B1818799	Invalid constructor area	Determine if service action or tracking event
B181879A	Failed in socket creation	Determine if service action or tracking event
B181879B	Failed to read path for socket from registry	Determine if service action or tracking event

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Reference Code	Description	Action
B181879D	Failed to construct network client	Determine if service action or tracking event
B181879E	Failed to allocate memory for a message	Determine if service action or tracking event
B181879F	Failed to allocate memory for a message	Determine if service action or tracking event
B18187A0	Length of the message buffer is incorrect	Determine if service action or tracking event
B18187A1	Invalid pointer	Determine if service action or tracking event
B18187A2	Invalid pointer	Determine if service action or tracking event
B18187A3	Invalid pointer	Determine if service action or tracking event
B18187A4	Invalid pointer	Determine if service action or tracking event
B18187A5	Failed to get channel string id to server	Determine if service action or tracking event
B18187A7	Failed to connect using UNIX	Determine if service action or tracking event
B18187A8	Error in network connection using UNIX	Determine if service action or tracking event
B18187AB	Failed to receive data from the network client	Determine if service action or tracking event
B18187AC	Failed to connect using TCP/IP	Determine if service action or tracking event
B18187AD	Failed to connect using UNIX	Determine if service action or tracking event
B18187AF	Timed out waiting on connection	Determine if service action or tracking event
B18187B0	Failed to get socket options	Determine if service action or tracking event
B18187B1	Connection failed	Determine if service action or tracking event
B18187B2	Failed to select socket	Determine if service action or tracking event
B18187B3	Eth0 connection failure	Determine if service action or tracking event
B18187B4	Failed to connect for network client serial connection to CMS	Determine if service action or tracking event
B18187B6	Failed to send serial connection message to eth0 gateway	Determine if service action or tracking event
B18187B7	Error in sending connection message	Determine if service action or tracking event
B18187B8	Error in sending connection message to serial connection to CMS	Determine if service action or tracking event
B18187B9	Failed to send data	Determine if service action or tracking event
B18187BA	Error in opening port number	Determine if service action or tracking event
B18187BC	Error writing to port	Determine if service action or tracking event
B18187BD	Failed to close UART	Determine if service action or tracking event
B18187BE	No object created	Determine if service action or tracking event
B18187C0	Failed to receive data	Determine if service action or tracking event
B18187C1	Failed to reset UART	Determine if service action or tracking event
B18187CA	Failed to close	Determine if service action or tracking event
B18187CB	Failed to close serial	Determine if service action or tracking event
B18187CC	Error closing eth0 connection	Determine if service action or tracking event
B18187CD	Error closing eth1 connection	Determine if service action or tracking event
B18187D0	Unexpected signal received	Determine if service action or tracking event
B18187D1	Error setting password	Determine if service action or tracking event
B18187D6	Failed to send sdata	Determine if service action or tracking event
B18187D7	Failed to send sdata	Determine if service action or tracking event

Reference Code	Description	Action
B18187D8	Failed to configure UART	Determine if service action or tracking event
B18187D9	Failed to configure UART	Determine if service action or tracking event
B18187DA	Failed to configure UART	Determine if service action or tracking event
B18187DB	Failed to configure UART	Determine if service action or tracking event
B18187DC	Failed to configure UART	Determine if service action or tracking event
B18187DE	Error receiving on serial interface	Determine if service action or tracking event
B18187E5	Failed to read registry for network client	Determine if service action or tracking event
B18187E6	Failed to connect for TCP/IP	Determine if service action or tracking event
B18187E7	Socket error on select	Determine if service action or tracking event
B18187E8	Timed out on select call	Determine if service action or tracking event
B18187E9	Connect failed	Determine if service action or tracking event
B18187EA	Failed to close	Determine if service action or tracking event
B18187EC	Error in write operation	Determine if service action or tracking event
B18187ED	Error in select while waiting for data	Determine if service action or tracking event
B18187EE	Timeout in select while waiting for data	Determine if service action or tracking event
B18187EF	Error in receive operation	Determine if service action or tracking event
B18187F0	Bad eyecatcher detected in the data packet	Determine if service action or tracking event
B18187F1	Timeout in select while waiting for data	Determine if service action or tracking event
B18187F2	Error in select while waiting for data	Determine if service action or tracking event
B18187F3	Error in select	Determine if service action or tracking event
B18187F5	Error in sending connection message to serial connection to CMS	Determine if service action or tracking event
B18187F6	Error processing message for gateway	Determine if service action or tracking event
B18187F7	Error sending or receiving message	Determine if service action or tracking event
B18187FA	Data sent in through constructor is bad	Determine if service action or tracking event
B1818801	Invalid Service Routine	Determine if service action or tracking event
B1818802	Requested processor core is not functional	Determine if service action or tracking event
B1818803	Failed to get selected processor core functionality	Determine if service action or tracking event
B1818806	Failed to restore the Attention Area into MainStore	Determine if service action or tracking event
B1818807	Failed to restore the SPRs	Determine if service action or tracking event
B1818808	Failed to restore the GPRs	Determine if service action or tracking event
B1818809	Failed to create shared memory for Attention Area	Determine if service action or tracking event
B181880A	Failed to invalidate the I-Cache and Instruction buffers for all processors	Determine if service action or tracking event
B181880B	Failed to read path from registry	Determine if service action or tracking event
B181880C	Failed to start instructions to run the Service Routine	Determine if service action or tracking event
B181880D	Failed to write to Service Routine State in registry to indicate that a Service Routine is running	Determine if service action or tracking event

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Reference Code	Description	Action
B181880E	Timed out waiting for the Service Routine to finish	Determine if service action or tracking event
B181880F	Failed to write to Service Routine State in registry to indicate that a Service Routine is not running	Determine if service action or tracking event
B1818810	Failed to attach to shared memory area for Attention Area	Determine if service action or tracking event
B1818813	Failed to set bit for SPR register setup	Determine if service action or tracking event
B1818814	Failed to read GPRs for thread in User Data 2 of SRC so they could be saved	Determine if service action or tracking event
B1818815	Failed to set bits in setup map buffer to indicate what register we wanted to set	Determine if service action or tracking event
B1818816	Failed to read SPRs for thread in User Data 4 of SRC so they could be saved	Determine if service action or tracking event
B1818817	Failed to read Attention Area from MainStore	Determine if service action or tracking event
B1818818	Failed to get CPU Control Area from Host Data Area	Determine if service action or tracking event
B1818819	Failed to get Service Routine structure from Host Data Area	Determine if service action or tracking event
B181881A	Failed to initialize Service Routine address buffer	Determine if service action or tracking event
B181881B	Failed to write Service Routine address to GPR3 for thread in User Data 2 of SRC	Determine if service action or tracking event
B181881C	Failed to read the current SPR values	Determine if service action or tracking event
B181881D	Failed to initialize NIA buffer	Determine if service action or tracking event
B181881E	Failed to setup SPR to run Service Routine	Determine if service action or tracking event
B181881F	Failed to set NIA for Service Routine	Determine if service action or tracking event
B1818820	Failed to initialize MSR buffer	Determine if service action or tracking event
B1818821	Failed to set MSR for Service Routine	Determine if service action or tracking event
B1818822	Failed to set LPCR for Service Routine	Determine if service action or tracking event
B1818823	Failed to clear RMI bit in LPCR for Service Routine	Determine if service action or tracking event
B1818824	Failed to get LPCR from SPR object	Determine if service action or tracking event
B1818825	Invalid attention area pointer was passed into function	Determine if service action or tracking event
B1818826	Failed to get shared memory area for Attention Area	Determine if service action or tracking event
B1818827	Failed to deattach from shared memory area for Attention Area	Determine if service action or tracking event
B1818828	Failed to create file to signify that the system attention has been handled	Determine if service action or tracking event
B1818829	Failed to destroy file	Determine if service action or tracking event
B181882A	Failed to destroy shared memory for Attention Area	Determine if service action or tracking event
B181882B	Failed to get status of thread requested	Determine if service action or tracking event
B181882C	No threads are alive on the requested processor core	Determine if service action or tracking event

Reference Code	Description	Action
B181882D	Failed to get proper fabric identity so we could read MainStore	Determine if service action or tracking event
B181882E	Failed to get Attention Area data from MainStore object	Determine if service action or tracking event
B181882F	Timed out waiting for Attention Handler to begin running	Determine if service action or tracking event
B1818830	Failed to start Attention Handler	Determine if service action or tracking event
B1818831	Failed to unmap memory	Determine if service action or tracking event
B1818901	Failed to read from the registry	Determine if service action or tracking event
B1818902	The Server file does not exist and we have timed out	Determine if service action or tracking event
B1818903	The Server file exists, but is not locked and we have timed out	Determine if service action or tracking event
B1818904	The file failed to open	Determine if service action or tracking event
B1818905	The Server file failed to be created and opened	Determine if service action or tracking event
B1818906	The Server file that was created/opened failed to lock	Determine if service action or tracking event
B1818907	The Server file that was opened is already locked by another Server process	Determine if service action or tracking event
B1818908	The Server file failed to be unlinked (destroyed)	Determine if service action or tracking event
B181890A	The List file is at the end of file	Determine if service action or tracking event
B181890B	The List file failed to read a line due to a reading error	Determine if service action or tracking event
B181890C	The List file is in an invalid format	Determine if service action or tracking event
B181890D	Failed to read the base path from the List file	Determine if service action or tracking event
B181890E	The timeout value read from the List file was too small or too large	Determine if service action or tracking event
B181890F	Failed to read the relative path of the file to be checked from the List file	Determine if service action or tracking event
B1818910	Failed to read the timeout of the file to be checked from the List file	Determine if service action or tracking event
B1818911	Failed to synchronize with a file from List file	Determine if service action or tracking event
B1818912	Failed to synchronize with requested file in time allotted	Determine if service action or tracking event
B1818913	A line was read from the List file, but it had invalid characters	Determine if service action or tracking event
B1818914	The command was passed improper arguments	Determine if service action or tracking event
B1818915	We have exceeded the maximum number of files that are allowed to be created and opened using Process Synchronization	Determine if service action or tracking event
B1818916	The Server file descriptor could not be found	Determine if service action or tracking event
B1818917	Failed to synchronize with requested file in time allotted	Determine if service action or tracking event
B1818A01	Registry read or write failure due to an invalid key	Determine if service action or tracking event

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Reference Code	Description	Action
B1818A02	Registry read or write failure due to a size mismatch	Determine if service action or tracking event
B1818A03	Building Block registry write failure	Determine if service action or tracking event
B1818A04	Failed to determine the platform extension for the given write key	Determine if service action or tracking event
B1818A05	Redundant write failed for the given key	Determine if service action or tracking event
B1818A06	Event signal failure for the given write key	Determine if service action or tracking event
B1818A08	Redundant registry write failure due to stream failure	Determine if service action or tracking event
B1818A09	Building Block registry failure	Determine if service action or tracking event
B1818A0A	Error forming the registry path	Determine if service action or tracking event
B1818A0D	Requested system operation failed	Determine if service action or tracking event
B1818A0E	File not open	Determine if service action or tracking event
B1818A0F	Reached end of file	Determine if service action or tracking event
B1818A10	Bad memory receive pointer	Determine if service action or tracking event
B1818A11	Stream is at end of file	Determine if service action or tracking event
B1818A12	File removal failed in the underlying layer	Determine if service action or tracking event
B1818A13	File lock failure with given parameters	Determine if service action or tracking event
B1818A15	Semaphore initialization cannot complete due to failure getting semaphore	Determine if service action or tracking event
B1818A16	Semaphore initialization cannot complete due to control failure of semaphore	Determine if service action or tracking event
B1818A17	Semaphore operation failed	Determine if service action or tracking event
B1818A18	Semaphore initialization cannot complete due to failure getting file token	Determine if service action or tracking event
B1818A19	Loading of a shared library has failed	Determine if service action or tracking event
B1818A1A	Loading of a shared library symbol has failed	Determine if service action or tracking event
B1818A1B	Failed to execute the synchronization immediate platform extension during a registry operation	Determine if service action or tracking event
B1818A1D	Building Block registry read failure	Determine if service action or tracking event
B1818A1E	Error reading platform extension for the given registry key	Determine if service action or tracking event
B1819002	Invalid number of arguments were passed	Determine if service action or tracking event
B1819003	Incorrect number of arguments	Determine if service action or tracking event
B1819004	Failed trying to make a directory	Determine if service action or tracking event
B1819008	Failed trying to get status of a file	Determine if service action or tracking event
B1819009	Failed attempting to allocate memory	Determine if service action or tracking event
B181900A	Failed trying to allocate memory	Determine if service action or tracking event
B181900B	Failed trying to allocate memory	Determine if service action or tracking event
B181900C	Failed trying to memory map a file	Determine if service action or tracking event
B181900E	Failed trying to memory map a file	Determine if service action or tracking event
B181900F	Failed trying to unmap a file	Determine if service action or tracking event

Reference Code	Description	Action
B1819010	Failure from memory unmap	Determine if service action or tracking event
B1819011	Unexpected signal received	Determine if service action or tracking event
B1819014	Size of registry entry is not correct	Determine if service action or tracking event
B1819018	LID's file size is too large	Determine if service action or tracking event
B181901A	Failed trying to add another entry to an array	Determine if service action or tracking event
B181901B	Attempted to add a RAM FRU for an invalid mainstore area	Determine if service action or tracking event
B181901C	Failed trying to get status of primary LID's file	Determine if service action or tracking event
B181901F	More PHY P LIDs have been added to the build for FSP to load and an array is not large enough to accommodate the new LIDs	Determine if service action or tracking event
B1819020	Size of file cannot contain the amount of memory we want to map	Determine if service action or tracking event
B1819021	VPD says a required FRU does not exist	Determine if service action or tracking event
B1819022	Attempted to allocate memory but it failed	Determine if service action or tracking event
B1819023	No resource ids were returned for a required FRU	Determine if service action or tracking event
B1819026	VPD collection was not complete and it did not complete in a reasonable time	Determine if service action or tracking event
B1819027	An error occurred trying to DMA a LID to mainstore	Determine if service action or tracking event
B1819028	The number of I/O paths to the primary FSP is not valid	Determine if service action or tracking event
B181904F	Another component had a failure	Determine if service action or tracking event
B1819200	I/O control failed trying to set the DTR pin	Determine if service action or tracking event
B1819202	HVSI received a response to the version query but did not get any data	Determine if service action or tracking event
B1819203	OS protocol version does not match currently supported FSP version	Determine if service action or tracking event
B1819206	The open on the requested device failed	Determine if service action or tracking event
B1819207	HVSI was asked to open a port that did not exist	Determine if service action or tracking event
B1819209	Invalid action requested or invalid data passed	Determine if service action or tracking event
B181920A	Request for modem control signal status but the port is not open	Determine if service action or tracking event
B181920B	Error trying to read status register data	Determine if service action or tracking event
B181920D	We failed reading data from the serial port	Determine if service action or tracking event
B181920E	Write to the serial port failed	Determine if service action or tracking event
B181920F	Failed to close	Determine if service action or tracking event
B1819211	Stuck trying to write to serial port for more than 2 seconds	Determine if service action or tracking event
B1819502	Unable to unlock an HMC queue mutex	Determine if service action or tracking event
B1819505	Unable to post semaphore to wake up processing thread	Determine if service action or tracking event
B1819506	Couldn't create the thread	Determine if service action or tracking event

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Reference Code	Description	Action
B1819509	The wrong number of bytes were written on mailbox interface	Determine if service action or tracking event
B181950A	No bytes were returned on mailbox read	Determine if service action or tracking event
B181950B	Failed to send message to PHYP	Determine if service action or tracking event
B181950C	Indicates that PHYP sent the service processor a bad size, modifier or HMC index	Determine if service action or tracking event
B181950D	The size of data being sent exceeds the TCE size or the TCE's have never been allocated and written to the registry	Determine if service action or tracking event
B181950E	Unable to start timer to block code update on DPO	Determine if service action or tracking event
B1819510	Bad status in network response message	Determine if service action or tracking event
B1819516	Got a socket message that doesn't belong to this sender	Determine if service action or tracking event
B1819517	Unable to receive the error/event log from the daemon	Determine if service action or tracking event
B1819518	Failed operating system call	Determine if service action or tracking event
B1819519	Bad parameter for function	Determine if service action or tracking event
B181951A	IPL handshake failed	Determine if service action or tracking event
B181951B	Dump other than platform or FSP is being invalidated	Determine if service action or tracking event
B1819520	State manager never made it to desired state in time we waited	Determine if service action or tracking event
B1819521	HMC ID is too big	Determine if service action or tracking event
B1819522	Daemon is down	Determine if service action or tracking event
B1819524	Unable to clear bits in DSISR so PHYP may stop talking to the FSP, if the bits are actually set	Determine if service action or tracking event
B1819525	Unable to display SRC for PHYP	Determine if service action or tracking event
B1819526	On redundant FSPs, there are times when messages to PHYP are blocked and this is one of those times	Determine if service action or tracking event
B1819527	On redundant FSPs, there are times when messages from PHYP are blocked and this is one of those times	Determine if service action or tracking event
B1819902	Invalid signal received	Determine if service action or tracking event
B1819903	An error occurred reading a registry variable	Determine if service action or tracking event
B1819904	Failure to write to registry variable	Determine if service action or tracking event
B1819905	Unrecognized power off IPL type	Determine if service action or tracking event
B1819906	Invalid value read from registry variable	Determine if service action or tracking event
B1819907	Invalid value trying to set registry variable to	Determine if service action or tracking event
B1819908	An error occurred writing to the registry	Determine if service action or tracking event
B1819909	Failure to write to registry for Controlled Power Off	Determine if service action or tracking event
B181990A	Failure to write to registry for Loss of AC Power	Determine if service action or tracking event
B181A000	Input parameter is incorrect	Determine if service action or tracking event

Reference Code	Description	Action
B181A001	Socket connect failure	Determine if service action or tracking event
B181A004	Send system call has failed	Determine if service action or tracking event
B181A005	Send length not equal to the message length	Determine if service action or tracking event
B181A006	Received length not equal to the server message length	Determine if service action or tracking event
B181A007	Invalid parameter	Determine if service action or tracking event
B181A008	Socket system call failed for server socket	Determine if service action or tracking event
B181A009	Bind system call has failed for server socket	Determine if service action or tracking event
B181A00A	Listen system call has failed for server socket	Determine if service action or tracking event
B181A00B	Failed to accept socket	Determine if service action or tracking event
B181A00E	Failed to receive message	Determine if service action or tracking event
B181A00E	Failed to receive message	Determine if service action or tracking event
B181A00F	Socket connect failure	Determine if service action or tracking event
B181A010	Send system call failure	Determine if service action or tracking event
B181A012	An error occurred reading the P0 root path from the registry	Determine if service action or tracking event
B181A013	Trying to set invalid power state	Determine if service action or tracking event
B181A015	Response doesn't match request	Determine if service action or tracking event
B181A016	Incorrect mode	Determine if service action or tracking event
B181A017	Function requested is disabled	Determine if service action or tracking event
B181A018	Invalid subfunction number	Determine if service action or tracking event
B181A019	Function range is disabled	Determine if service action or tracking event
B181A01C	Sequence error	Determine if service action or tracking event
B181A01D	Timer creation error	Determine if service action or tracking event
B181A01E	Resetting timer has failed	Determine if service action or tracking event
B181A01F	Resetting scroll lock has failed	Determine if service action or tracking event
B181A021	Error in starting process as a daemon	Determine if service action or tracking event
B181A024	Failure to start thread	Determine if service action or tracking event
B181A025	Type undefined for given function. Probably invalid function number	Determine if service action or tracking event
B181A027	Unexpected signal received	Determine if service action or tracking event
B181A028	An unsupported event id was received	Determine if service action or tracking event
B181A029	Failed to select socket	Determine if service action or tracking event
B181A02A	Timed out waiting for select	Determine if service action or tracking event
B181A02B	Failed to select socket	Determine if service action or tracking event
B181A02C	Timed out waiting for select	Determine if service action or tracking event
B181A02E	The client has gone away	Determine if service action or tracking event
B181A02F	The server has gone away	Determine if service action or tracking event
B181A031	Failure building the display	Determine if service action or tracking event
B181A032	Error while attempting to program panel buttons or displaying to Panel	Determine if service action or tracking event

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Reference Code	Description	Action
B181A033	Failed to read path from registry	Determine if service action or tracking event
B181A036	Failed to remove an old message queue	Determine if service action or tracking event
B181A038	Event message queue send failed	Determine if service action or tracking event
B181A039	Event message queue receive failed	Determine if service action or tracking event
B181A03A	Failed to allocate memory for event	Determine if service action or tracking event
B181A040	Failed thread conditional broadcast	Determine if service action or tracking event
B181A041	Failed to create thread	Determine if service action or tracking event
B181A042	Failed to synchronize with server process	Determine if service action or tracking event
B181A043	An error occurred while reading a Registry value	Determine if service action or tracking event
B181A044	Failed to synchronize with client process	Determine if service action or tracking event
B181A049	VPNL returned error while executing the specified function	Determine if service action or tracking event
B181A050	Error getting function state	Determine if service action or tracking event
B181A051	The caller has elected to NOT wait for VPD collection to complete	Determine if service action or tracking event
B181A054	The specified RID does not correspond to a physically present op-panel	Determine if service action or tracking event
B181A055	An op-panel is currently active, and therefore the 'activate' request cannot be performed	Determine if service action or tracking event
B181A056	Another concurrent maintenance operation is in progress	Determine if service action or tracking event
B181A057	Failure to lock a mutex	Determine if service action or tracking event
B181A058	Failure to unlock a mutex	Determine if service action or tracking event
B181A059	An op-panel is not currently active, and therefore the 'deactivate' request cannot be performed	Determine if service action or tracking event
B181A05A	This event indicates that the panel will not be activated for the system because it is a redundant service processor, Model 570 with the new service processor cables	Determine if service action or tracking event
B181A061	Failure to initialize thread attribute variable	Determine if service action or tracking event
B181A062	Failure to set thread attribute variable	Determine if service action or tracking event
B181A063	Failure to cancel thread	Determine if service action or tracking event
B181A064	Failed to get VPD state	Determine if service action or tracking event
B181A065	Failed to get the maximum number of RIDs from VPD	Determine if service action or tracking event
B181A066	Failed to get RID number from VPD	Determine if service action or tracking event
B181A069	More than one op-panel is physically present in the system	Determine if service action or tracking event
B181A071	The caller's array is too small to contain all the data	Determine if service action or tracking event
B181A072	Experienced a problem while trying to detect old message queue	Determine if service action or tracking event
B181A073	Timed out waiting for the thread to exit	Determine if service action or tracking event
B181A074	Error while waiting for thread to exit	Determine if service action or tracking event

Reference Code	Description	Action
B181A075	Error waiting on the 'CCM complete' condition	Determine if service action or tracking event
B181A076	Only the primary FSP can activate an op-panel	Determine if service action or tracking event
B181A077	Failed to get power state	Determine if service action or tracking event
B181A078	An error occurred trying to extract the Display SRC function symbol from the panel client library	Determine if service action or tracking event
B181A079	An error occurred trying to setup the environment to have the correct library path for finding the panel client library	Determine if service action or tracking event
B181A07A	Error reading VPD	Determine if service action or tracking event
B181A07B	Invalid RID count	Determine if service action or tracking event
B181A07C	No sibling FSP found	Determine if service action or tracking event
B181A201	Invalid field update specified in request	Determine if service action or tracking event
B181A203	An unsupported operation was requested	Determine if service action or tracking event
B181A204	Failed IPL request	Determine if service action or tracking event
B181A206	Error returned from IPL lock function	Determine if service action or tracking event
B181A207	Failed lamp test	Determine if service action or tracking event
B181A208	Error returned while reading registry	Determine if service action or tracking event
B181A209	Registry write failure	Determine if service action or tracking event
B181A20A	The operation request is not allowed because it was requested on the backup FSP	Determine if service action or tracking event
B181A20B	Invalid request from caller	Determine if service action or tracking event
B181A20C	This request has NULL output data pointer	Determine if service action or tracking event
B181A20D	Error returned from dump function	Determine if service action or tracking event
B181A20E	The requested function is not within the valid range or it is an unsupported function	Determine if service action or tracking event
B181A20F	Error from mailbox	Determine if service action or tracking event
B181A211	Rejected specified function/ subfunction request	Determine if service action or tracking event
B181A214	The requested function is not within the valid range or it is an unsupported function	Determine if service action or tracking event
B181A215	SPCN Panel function (07) is disabled	Determine if service action or tracking event
B181A216	FSP dump failed	Determine if service action or tracking event
B181A217	Requested subfunction is outside the valid range	Determine if service action or tracking event
B181A219	Invalid signal received by process	Determine if service action or tracking event
B181B000	Invalid parameter passed by the user	Determine if service action or tracking event
B181B001	Update for the given keyword not allowed for second time	Determine if service action or tracking event
B181B004	Cannot find given record	Determine if service action or tracking event
B181B005	VTOC record not found	Determine if service action or tracking event
B181B006	Failure reading / finding the module VPD file	Determine if service action or tracking event
B181B009	RLCA Index greater than number of RLCA entries	Determine if service action or tracking event
B181B00A	Invalid length of parameter	Determine if service action or tracking event

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Reference Code	Description	Action
B181B00B	Failure to read VPD File Path registry	Determine if service action or tracking event
B181B00C	Error reading NVRAM entry	Determine if service action or tracking event
B181B00E	We had an error opening the file for the given resource ID	Determine if service action or tracking event
B181B00F	We were unable to gain a lock on a VPD file	Determine if service action or tracking event
B181B010	We had an error reading the VPD file	Determine if service action or tracking event
B181B011	We were unable to unlock the file	Determine if service action or tracking event
B181B012	Unable to build location code for the FRU	Determine if service action or tracking event
B181B013	Error trying to locate the file	Determine if service action or tracking event
B181B014	Invalid format for the VPD	Determine if service action or tracking event
B181B015	Error renaming file	Determine if service action or tracking event
B181B016	We had an error closing and/or unlocking the file	Determine if service action or tracking event
B181B017	Cannot find given keyword in the block	Determine if service action or tracking event
B181B01B	Cannot read VPD node for the given RID	Determine if service action or tracking event
B181B01C	Cannot find PT keyword in the VTOC record	Determine if service action or tracking event
B181B01D	Invalid input buffer length	Determine if service action or tracking event
B181B01E	Error while writing to the registry	Determine if service action or tracking event
B181B01F	Failure reading configured id of machine model registry	Determine if service action or tracking event
B181B020	Invalid parameter passed by the user	Determine if service action or tracking event
B181B024	Error reading ECC for VHDR block	Determine if service action or tracking event
B181B027	Invalid VTOC record length	Determine if service action or tracking event
B181B028	We failed trying to get smart chip block size	Determine if service action or tracking event
B181B02A	Error initializing smart chips	Determine if service action or tracking event
B181B02C	There was a failure trying to update one of the smart chip blocks	Determine if service action or tracking event
B181B030	Unable to find input resource ID in the RID table	Determine if service action or tracking event
B181B031	Cannot find rlca index for the given location code	Determine if service action or tracking event
B181B032	We were trying to generate a FRU callout because we had an error in one of the external interface and in process of generating that error we ran into another error	Determine if service action or tracking event
B181B033	Cannot find MF tag for 1002 slotmap	Determine if service action or tracking event
B181B035	Error writing Machine Brand registry	Determine if service action or tracking event
B181B036	We failed trying to get smart chip block size	Determine if service action or tracking event
B181B037	Invalid length for the keyword in the VPD	Determine if service action or tracking event
B181B038	Invalid Block id passed by the user	Determine if service action or tracking event
B181B03A	Unable to find input resource ID in the RID table	Determine if service action or tracking event
B181B03B	Cannot find data port node for VRM information	Determine if service action or tracking event
B181B03C	Error initializing I2C devices	Determine if service action or tracking event
B181B03D	Writing to I2C device failed	Determine if service action or tracking event

Reference Code	Description	Action
B181B03E	Error trying to read the module VPD from the I2C Chip	Determine if service action or tracking event
B181B03F	Reading thermal sensor data failed for the given FRU	Determine if service action or tracking event
B181B040	Invalid controller type for frequency controller	Determine if service action or tracking event
B181B041	Someone has requested the SMP cable ID on a non MLx system	Determine if service action or tracking event
B181B043	Invalid RID or invalid FSP ID	Determine if service action or tracking event
B181B044	The Input RID does not have a redundant resource associated with it	Determine if service action or tracking event
B181B045	Invalid bit definition for 9551 controllers	Determine if service action or tracking event
B181B046	Invalid bit definition for 9552 controllers	Determine if service action or tracking event
B181B049	Invalid data	Determine if service action or tracking event
B181B04A	Invalid keyword format VPD	Determine if service action or tracking event
B181B04B	Invalid description length for keyword format VPD	Determine if service action or tracking event
B181B04C	Invalid offset found in the keyword format VPD	Determine if service action or tracking event
B181B04E	Invalid offset	Determine if service action or tracking event
B181B04F	No 0x84 tag found	Determine if service action or tracking event
B181B050	Invalid offset for the PT keyword in VTOC record	Determine if service action or tracking event
B181B051	Invalid VTOC record offset	Determine if service action or tracking event
B181B052	Invalid VHDR record size	Determine if service action or tracking event
B181B053	Error reading "PR" keyword from the VINI record for the given RID	Determine if service action or tracking event
B181B054	Invalid IN keyword size. Found zero number of VSRC entries	Determine if service action or tracking event
B181B055	Zero plug count found for the given RID	Determine if service action or tracking event
B181B056	Unsupported Resource Type	Determine if service action or tracking event
B181B057	Unsupported Record Type	Determine if service action or tracking event
B181B059	Offset is greater than buffer size	Determine if service action or tracking event
B181B05A	Invalid 200A Slotmap	Determine if service action or tracking event
B181B05B	Cannot find rlca index for the given slca index	Determine if service action or tracking event
B181B05C	Cannot find rlca index	Determine if service action or tracking event
B181B05D	Failure to write Registry with Raw VPD data	Determine if service action or tracking event
B181B061	Unable to use either VPD Chip because we could not reach them or they are garded out	Determine if service action or tracking event
B181B063	Incorrect size passed in by user	Determine if service action or tracking event
B181B064	Caller has asked us to update an invalid type of FRU	Determine if service action or tracking event
B181B065	Failed to read anchor card VPD	Determine if service action or tracking event
B181B067	Error converting to multiple stanza format converged VPD	Determine if service action or tracking event

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Reference Code	Description	Action
B181B068	Error converting to multiple stanza format keyword format VPD	Determine if service action or tracking event
B181B06D	Failed to process VPD chip	Determine if service action or tracking event
B181B06E	Failed to get RLCA index for a resource ID	Determine if service action or tracking event
B181B073	We read an invalid Machine Type Model from the VPD	Determine if service action or tracking event
B181B07A	Legacy SC buffer greater than original buffer	Determine if service action or tracking event
B181B07C	Cannot find old file in directory	Determine if service action or tracking event
B181B07E	Failed to write RLCA table	Determine if service action or tracking event
B181B080	No valid Service Processor VPD was found on this system	Determine if service action or tracking event
B181B082	No VPD collected for given processor card	Determine if service action or tracking event
B181B083	Pin failure failed after root node mismatch	Determine if service action or tracking event
B181B084	Pin failure is successful after root node mismatch	Determine if service action or tracking event
B181B085	Invalid FRU Detect Data Port Type Found in VPD	Determine if service action or tracking event
B181B086	We failed when trying to read the SMP cable ID from the 9552 controller on this MLx system	Determine if service action or tracking event
B181B087	VPD Firmware had an error in trying to detect if this FRU was actually present or not on the system	Determine if service action or tracking event
B181B088	No plug detect node found for this RID but the RLCA table said there should be	Determine if service action or tracking event
B181B089	Error in finding out which FSP it is	Determine if service action or tracking event
B181B08A	We were unable to determine the maximum number of Resource ID's for the input FRU type	Determine if service action or tracking event
B181B08B	Failed trying to determine the Resource ID's associated with the given FRU type	Determine if service action or tracking event
B181B08C	We had a failure finding the LED node for this processor card	Determine if service action or tracking event
B181B08D	We had a failure reading the SMP cable ID on a processor card	Determine if service action or tracking event
B181B08E	We had a mismatch in the cable ID between two processor cards	Determine if service action or tracking event
B181B08F	There was a failure trying to configure 9555/9554 controller	Determine if service action or tracking event
B181B090	There was a failure trying to create smart chip blocks	Determine if service action or tracking event
B181B091	Error occurred while locking/unlocking DASD device	Determine if service action or tracking event
B181B092	VPD Firmware had an error in trying to read the size of a registry key	Determine if service action or tracking event
B181B093	Failed to open source directory while copying a directory	Determine if service action or tracking event
B181B094	Locking the VPD file has failed	Determine if service action or tracking event
B181B095	Unlocking the VPD file has failed	Determine if service action or tracking event

Reference Code	Description	Action
B181B097	Cannot find DR keyword in the given record while updating legacy smart chip VPD	Determine if service action or tracking event
B181B098	TM field is already updated once. Second update for the given keyword not allowed because TYPE part of MTM does not match	Determine if service action or tracking event
B181B099	Firmware needs to add support for an additional resource to the given FRU type	Determine if service action or tracking event
B181B09A	Failed to get FRU status for the given RID in registry update function	Determine if service action or tracking event
B181B09B	Failed to read the VPD and update the registry entry for the input RID	Determine if service action or tracking event
B181B09C	Error writing NVRAM to VPD	Determine if service action or tracking event
B181B09D	Mismatch in VPD vs NVRAM	Determine if service action or tracking event
B181B09E	Failed to write System NVRAM values out to VPD	Determine if service action or tracking event
B181B09F	Failed to write Enclosure NVRAM values out to VPD	Determine if service action or tracking event
B181B0A0	Unable to add FRU to the rlcaTable because instanceTable shows no more FRU addition allowed	Determine if service action or tracking event
B181B0A1	Invalid algorithm type found in the VPD node for the given RID in the rlcaTable	Determine if service action or tracking event
B181B0A2	Failed to update GARD with a resource ID	Determine if service action or tracking event
B181B0A3	Failed to GARD out a resource ID	Determine if service action or tracking event
B181B0A4	Failed to determine if chip is garded out or not	Determine if service action or tracking event
B181B0A5	A chip on the Anchor card has been garded out	Determine if service action or tracking event
B181B0A7	Failure to write registry for update status	Determine if service action or tracking event
B181B0A8	Failure attempting to read the system configuration file	Determine if service action or tracking event
B181B0A9	Failed to input line from system file	Determine if service action or tracking event
B181B0AA	Mismatch SN or PN between primary and redundant fsp recollect during VPD verification	Determine if service action or tracking event
B181B0AB	Error reading smart chip legacy block size	Determine if service action or tracking event
B181B0AD	Error reading Raw Machine type model registry	Determine if service action or tracking event
B181B0AF	Failed to process message for VPD	Determine if service action or tracking event
B181B0B5	Cannot find RID for FRU_SP for this FSP	Determine if service action or tracking event
B181B0B6	Error synchronizing file to the other FSP	Determine if service action or tracking event
B181B0B7	Error reading system type registry	Determine if service action or tracking event
B181B0B8	Error converting FRU type	Determine if service action or tracking event
B181B0B9	Error converting FRU type	Determine if service action or tracking event
B181B0BB	Sibling FSP state is set to NOT working	Determine if service action or tracking event
B181B0BC	Unable to locate string in file	Determine if service action or tracking event
B181B0BD	Invalid number of processor cards are present	Determine if service action or tracking event

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Reference Code	Description	Action
B181B0BE	Checksum in the VPD data does not match calculated checksum	Determine if service action or tracking event
B181B0BF	Someone tries to read/write a keyword in corrupt VPD	Determine if service action or tracking event
B181B0C0	Failure in getting the other RID from the system configuration file	Determine if service action or tracking event
B181B0C1	Error in updating CCMM registry with the new primary RID	Determine if service action or tracking event
B181B0C2	VPD is not collected both for primary RID and redundant RID or its child RID	Determine if service action or tracking event
B181B0C4	Failed to read GPIO pin value from FSP extender	Determine if service action or tracking event
B181B0C5	Invalid number rlcaTable entries	Determine if service action or tracking event
B181B0C6	New value has been written to the hyperboot capability registry	Determine if service action or tracking event
B181B0C7	Error while getting the hyperboot capability registry value	Determine if service action or tracking event
B181B0C8	VPD could not collect more Oppanel VPD for ASMI	Determine if service action or tracking event
B181B0C9	No Oppanels present in system	Determine if service action or tracking event
B181B0CA	Invalid raw brand name	Determine if service action or tracking event
B181B0CB	Failed to copy or rename directory	Determine if service action or tracking event
B181B0CC	Failed to remove directory	Determine if service action or tracking event
B181B101	VPD indicates that no VPD headers are available	Determine if service action or tracking event
B181B102	Location code for the associated resource ID not found in the VPD header array	Determine if service action or tracking event
B181B103	Location code for the associated resource ID is not NULL terminated	Determine if service action or tracking event
B181B104	Parent location code of resource ID being processed is not null terminated	Determine if service action or tracking event
B181B105	The length of the location code being built is going to exceed the maximum allowed	Determine if service action or tracking event
B181B106	Call made to read location code for a resource ID of zero	Determine if service action or tracking event
B181B107	Call made to read location code, but the buffer provided is not large enough to hold a maximum length location code	Determine if service action or tracking event
B181B108	Location code for the associated resource ID has a length mismatch	Determine if service action or tracking event
B181B109	Call made to read location code, but the buffer reference provided was a NULL pointer	Determine if service action or tracking event
B181B10B	Failed to get number of headers from VPD	Determine if service action or tracking event
B181B10C	Failed to get all headers from VPD	Determine if service action or tracking event
B181B10D	Failed to process a resource ID	Determine if service action or tracking event
B181B10E	Failed to get maximum number of RIDs for enclosure	Determine if service action or tracking event
B181B10F	Failed to get RID numbers for enclosure	Determine if service action or tracking event

Reference Code	Description	Action
B181B110	Failed to get enclosure number and index using RID	Determine if service action or tracking event
B181B111	Error reading enclosure Feature Code and model data	Determine if service action or tracking event
B181B112	Error reading system Type/Model data	Determine if service action or tracking event
B181B113	Error reading system serial number data	Determine if service action or tracking event
B181B114	Error updating location code	Determine if service action or tracking event
B181B115	Failed to get RID number of children	Determine if service action or tracking event
B181B116	Maximum number of RIDs returned is zero	Determine if service action or tracking event
B181B117	Data length mismatch while reading enclosure Feature Code and model data	Determine if service action or tracking event
B181B118	Data length mismatch while reading enclosure serial number data	Determine if service action or tracking event
B181B119	Data length mismatch while reading system type/model data	Determine if service action or tracking event
B181B11A	Data length mismatch while reading system serial number data	Determine if service action or tracking event
B181B11B	Failed to read rlca table from VPD	Determine if service action or tracking event
B181B11C	The rlca was searched for a FRU_ID of "VV" which is the starting point of the VPD tree. However, no "VV" entry was found in the rlca	Determine if service action or tracking event
B181B11D	An FRU_ID "VV" root was being processed and an error was returned	Determine if service action or tracking event
B181B11E	An enclosure was being processed and an error was returned	Determine if service action or tracking event
B181B11F	User input invalid parameter	Determine if service action or tracking event
B181B120	Error returned from reading VPD registry	Determine if service action or tracking event
B181B121	Could not find VPD registry entry	Determine if service action or tracking event
B181B201	Call was made to read location codes, but a NULL buffer pointer was provided	Determine if service action or tracking event
B181B202	Call was made to read location codes, but the input buffer provided is not large enough to hold all the LED location codes	Determine if service action or tracking event
B181B204	Call was made to get LED access data, but the input location code pointer was NULL	Determine if service action or tracking event
B181B205	Call was made to get LED access data, but the input location code was not NULL terminated	Determine if service action or tracking event
B181B207	Call was made drive an LED to a specific state but the class controller type is invalid or not supported	Determine if service action or tracking event
B181B208	Failed to open I2C bus	Determine if service action or tracking event
B181B209	Failed to close I2C bus	Determine if service action or tracking event
B181B20A	Failed to transmit data on I2C bus	Determine if service action or tracking event
B181B20B	Failed to transmit data to the LED lightstrip controller	Determine if service action or tracking event
B181B20C	Failed to lock the I2C hub	Determine if service action or tracking event

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Reference Code	Description	Action
B181B20D	The specified LED state is not valid	Determine if service action or tracking event
B181B20E	Failed to get GMNOL from VPD	Determine if service action or tracking event
B181B20F	Failed to get GAL from VPD	Determine if service action or tracking event
B181B210	Call was made to read the number of enclosure LEDs, but none was found	Determine if service action or tracking event
B181B211	Failed to read LED location codes	Determine if service action or tracking event
B181B212	Failed to drive LED to specified state	Determine if service action or tracking event
B181B213	Failed to drive LED to specified state	Determine if service action or tracking event
B181B214	Failed to transmit data to the I2C hub	Determine if service action or tracking event
B181B215	Failed to transmit park data to the I2C hub	Determine if service action or tracking event
B181C000	VPD failure	Determine if service action or tracking event
B181C001	Session entry failure	Determine if service action or tracking event
B181C002	Failed network client call	Determine if service action or tracking event
B181C003	Invalid authentication level or requestor was set	Determine if service action or tracking event
B181C004	PHyp returned an error when attempting to open a PHyp session	Determine if service action or tracking event
B181C005	Data buffer error	Determine if service action or tracking event
B181C006	Failed Mailbox function call	Determine if service action or tracking event
B181C007	Failed to read from or write to a registry entry	Determine if service action or tracking event
B181C008	Internal event error	Determine if service action or tracking event
B181C009	Internal file error	Determine if service action or tracking event
B181C00A	Internal VTTY error	Determine if service action or tracking event
B181C00B	Failed to signal a broadcast event	Determine if service action or tracking event
B181C00C	Failed to successfully create a virtual serial object while running the virtual serial open command	Determine if service action or tracking event
B181C00D	A virtual serial client attempted to open a virtual serial session before PHYP reached standby/runtime state	Determine if service action or tracking event
B181C00E	The DMA component returned an error log while attempting to read the VTTY buffer	Determine if service action or tracking event
B181C00F	Received an error while trying to access the leds file	Determine if service action or tracking event
B181C010	Received an error while accessing the semaphore object for the leds table during the lock table command	Determine if service action or tracking event
B181C011	API error	Determine if service action or tracking event
B181C012	Failure to calculate the timestamp stored in the session entry object	Determine if service action or tracking event
B181C013	Failed to acknowledge surveillance	Determine if service action or tracking event
B181C014	Internal lock error	Determine if service action or tracking event
B181C015	Failed to obtain file lock	Determine if service action or tracking event
B181C016	Failed to release file lock	Determine if service action or tracking event
B181C017	Failed to access a file through the utility	Determine if service action or tracking event

Reference Code	Description	Action
B181C018	Unable to authenticate password for an authorized virtual serial session	Determine if service action or tracking event
B181C019	Failed to reset reload	Determine if service action or tracking event
B181C01A	PHYP status error	Determine if service action or tracking event
B181C01B	HMC/FSP interface protocol violation	Determine if service action or tracking event
B181C01C	Internal error	Determine if service action or tracking event
B181C01D	Protocol error	Determine if service action or tracking event
B181C01E	Failed to get the cage and frame number	Determine if service action or tracking event
B181C01F	Did not receive a valid data length or ack value	Determine if service action or tracking event
B181C020	MP command cannot be executed since MP state is incorrect	Determine if service action or tracking event
B181C021	Failed to write partial lid for code update	Determine if service action or tracking event
B181C022	Internal error	Determine if service action or tracking event
B181C023	Precondition failure	Determine if service action or tracking event
B181C024	Request to open a PHyp connection was denied because the tool type is not allowed to perform that operation	Determine if service action or tracking event
B181C025	Concurrent maintenance lock access failure	Determine if service action or tracking event
B181D101	Failed to write to file	Determine if service action or tracking event
B181D102	Failed to read breakpoint attention	Determine if service action or tracking event
B181D103	File write operation failed	Determine if service action or tracking event
B181D107	Failed to initialize the Hypervisor service routine flag	Determine if service action or tracking event
B181D108	Failed to read from registry	Determine if service action or tracking event
B181D10A	Null pointer while trying to enable attentions	Determine if service action or tracking event
B181D10C	Failure in Unmask attentions interface	Determine if service action or tracking event
B181D10D	JTAG failed while waiting for attention	Determine if service action or tracking event
B181D10E	Failed to write to MainStore	Determine if service action or tracking event
B181D10F	JTAG read failure while reading the Interrupt Status Register	Determine if service action or tracking event
B181D110	Fail to get the Hardware level in the JTAG controller	Determine if service action or tracking event
B181D111	Failed to enable attentions	Determine if service action or tracking event
B181D112	Timeout while waiting for JTAG lock	Determine if service action or tracking event
B181D113	Request for system dump failed after getting attention	Determine if service action or tracking event
B181D115	Utility read failure on a breakpoint attention	Determine if service action or tracking event
B181D116	Utility write failure while writing the terminate flag	Determine if service action or tracking event
B181D117	Failure while trying to open a file on a breakpoint attention	Determine if service action or tracking event
B181D118	Phyp wrote an invalid SRC in the attention area in MainStore	Determine if service action or tracking event

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Reference Code	Description	Action
B181D119	Master FSP Communications failure	Determine if service action or tracking event
B181D11A	Utility write failure while writing the terminate flag	Determine if service action or tracking event
B181D11C	Spurious attention detected after attempt to clear all attentions for ISR	Determine if service action or tracking event
B181D11D	Failed to get the reserve	Determine if service action or tracking event
B181D11E	Failed while attempting to release the reserve	Determine if service action or tracking event
B181D11F	No error created on a processor checkstop	Determine if service action or tracking event
B181D120	Failed to read mainstore after a breakpoint attention	Determine if service action or tracking event
B181D121	Failed to write to mainstore after a breakpoint attention	Determine if service action or tracking event
B181D122	Failed to write the ISR back to the JTAG controller	Determine if service action or tracking event
B181D123	Failed to release the JTAG lock	Determine if service action or tracking event
B181D124	Failure when getting functional group	Determine if service action or tracking event
B181D125	Failure while mapping mainstore to get attention area	Determine if service action or tracking event
B181D126	Failed while reading the mainstore area	Determine if service action or tracking event
B181D127	Get data failure	Determine if service action or tracking event
B181D128	Failure to instantiate an object	Determine if service action or tracking event
B181D129	Attentions not found exceeded threshold	Determine if service action or tracking event
B181D12A	Server process failed	Determine if service action or tracking event
B181D12B	Interface failure	Determine if service action or tracking event
B181D12C	Interface failure	Determine if service action or tracking event
B181D12D	Interface failure	Determine if service action or tracking event
B181D12E	Disable attentions failed	Determine if service action or tracking event
B181D130	Interface failure on an asset protection attention	Determine if service action or tracking event
B181D131	A trace trigger attention was detected	Determine if service action or tracking event
B181D132	Detected a clock stop on error attention	Determine if service action or tracking event
B181D133	Server process failed	Determine if service action or tracking event
B181D134	Failed to synchronize with client process	Determine if service action or tracking event
B181D135	Utility read failed to read the current state of the State Manager	Determine if service action or tracking event
B181D136	Invalid type of attention	Determine if service action or tracking event
B181D137	A TI was detected during either dump, power off or dump transition	Determine if service action or tracking event
B181D138	Manufacturing interface to read the policy flag failed	Determine if service action or tracking event
B181D139	Call to generate event failed during a Non IO checkstop	Determine if service action or tracking event
B181D13A	Utility read failed to read the current role of the FSP	Determine if service action or tracking event

Reference Code	Description	Action
B181D13B	FSP Dump event timed out	Determine if service action or tracking event
B181D13C	Reset reload while handling P5IOC recovered error	Determine if service action or tracking event
B181E001	Call home enabled but no destination phone numbers programmed	Determine if service action or tracking event
B181E002	Failed to receive message	Determine if service action or tracking event
B181E003	Pager data was not programmed	Determine if service action or tracking event
B181E004	Error writing to serial port	Determine if service action or tracking event
B181E005	The customer AGN account information is missing	Determine if service action or tracking event
B181E006	Missing data from setup	Determine if service action or tracking event
B181E007	Failed fork system call	Determine if service action or tracking event
B181E008	Failed to rebuild the error log during call home	Determine if service action or tracking event
B181E009	Failed fork system call	Determine if service action or tracking event
B181E00A	Child process failed	Determine if service action or tracking event
B181E00B	Child process failed	Determine if service action or tracking event
B181E00C	Child process died due to unhandled signal	Determine if service action or tracking event
B181E00D	Child process died due to unhandled signal	Determine if service action or tracking event
B181E00E	Failed trying to put the symptom string together	Determine if service action or tracking event
B181E010	Serial port open failed	Determine if service action or tracking event
B181E011	The file descriptor was is not valid	Determine if service action or tracking event
B181E012	Failed select system call	Determine if service action or tracking event
B181E015	Sending message on socket failed	Determine if service action or tracking event
B181E016	Failed to get socket	Determine if service action or tracking event
B181E017	Failed to get socket	Determine if service action or tracking event
B181E01E	Call home test	Determine if service action or tracking event
B181E01F	User issued a call home test	Determine if service action or tracking event
B181E025	Failed serial port echo	Determine if service action or tracking event
B181E026	Failed serial port echo	Determine if service action or tracking event
B181E027	Trying to do call home test on same port that ASMI is active on	Determine if service action or tracking event
B181E028	Trying to do call home test on same port that ASMI is active on	Determine if service action or tracking event
B181E101	String was found in the input data and the system reIPL has been requested	Determine if service action or tracking event
B181E201	Received an error and did not attempt a reboot	Determine if service action or tracking event
B181E202	Received an error waiting for the backup FSP to terminate	Determine if service action or tracking event
B181E303	Invalid modifier	Determine if service action or tracking event
B181E30B	Cannot Query for LED Table	Determine if service action or tracking event
B181E30D	The request sent in is not a valid request type for this function	Determine if service action or tracking event

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Reference Code	Description	Action
B181E310	Invalid request type	Determine if service action or tracking event
B181E315	Failed on retry for SPCN command	Determine if service action or tracking event
B181E31B	Failed to get LED state control	Determine if service action or tracking event
B181E31C	SPCN PRS command to collect LED data did not return any data	Determine if service action or tracking event
B181E31D	SPCN command to control the physical attention LED has failed	Determine if service action or tracking event
B181E31E	Failed to get location code table from PHYP	Determine if service action or tracking event
B181E400	Attempt to open file failed	Determine if service action or tracking event
B181E401	Attempt to open file failed	Determine if service action or tracking event
B181E402	Attempt to open file failed	Determine if service action or tracking event
B181E403	Attempt to close file failed	Determine if service action or tracking event
B181E404	Attempt to close file failed	Determine if service action or tracking event
B181E405	Attempt to open file failed	Determine if service action or tracking event
B181E406	Attempt to open file failed	Determine if service action or tracking event
B181E407	Attempt to open file failed	Determine if service action or tracking event
B181E408	Attempt to close file failed	Determine if service action or tracking event
B181E409	Attempt to close file failed	Determine if service action or tracking event
B181E40A	Detected DRAM Recovered Errors	Determine if service action or tracking event
B181E40B	Detected NVRAM Recovered Errors	Determine if service action or tracking event
B181E40C	Failed to get statistics	Determine if service action or tracking event
B181E40D	Attempt to open directory failed	Determine if service action or tracking event
B181E40E	Attempt to open file failed	Determine if service action or tracking event
B181E40F	File system corrupted	Determine if service action or tracking event
B181E411	Failed to get the maximum number of RIDs from VPD	Determine if service action or tracking event
B181E412	Failed to get the RID from VPD	Determine if service action or tracking event
B181E425	Failed to initialize thread attributes	Determine if service action or tracking event
B181E426	Failed to set thread to deattached state	Determine if service action or tracking event
B181E427	Attempt to accept a client request failed	Determine if service action or tracking event
B181E428	Attempt to receive client message failed	Determine if service action or tracking event
B181E429	Failed to send response to client	Determine if service action or tracking event
B181E42A	Unknown client command received	Determine if service action or tracking event
B181E42F	Another instance of the process is already running	Determine if service action or tracking event
B181E430	Failed thread call	Determine if service action or tracking event
B181E432	System call for mutex failed	Determine if service action or tracking event
B181E436	Client failed to send its heartbeat message within the stipulated time	Determine if service action or tracking event
B181E437	Error while trying to connect to the daemon	Determine if service action or tracking event
B181E438	Error while trying send or receive data with the daemon	Determine if service action or tracking event

Reference Code	Description	Action
B181E439	Failed to synchronize with server	Determine if service action or tracking event
B181E43A	Failed fork system call	Determine if service action or tracking event
B181E43B	Could not close the client socket	Determine if service action or tracking event
B181E43C	Error while attempting to close server address socket	Determine if service action or tracking event
B181E43D	Failed to read path from registry	Determine if service action or tracking event
B181E43E	Error while trying to signal event to notify HMC of the change in the HMC Surveillance Flag	Determine if service action or tracking event
B181E43F	Error returned while attempting to write to the registry	Determine if service action or tracking event
B181E440	Error returned when attempting to read the registry	Determine if service action or tracking event
B181E441	Error trying to notify PHYP of the change in HMC flag	Determine if service action or tracking event
B181E443	Invalid type	Determine if service action or tracking event
B181E444	Could not flatten log to send to client	Determine if service action or tracking event
B181E445	Error while attempting to extract flattened log sent from the daemon	Determine if service action or tracking event
B181E446	Client gateway was not able to talk to the master FSP	Determine if service action or tracking event
B181E448	Gateway address creation to send surveillance heart beat to master FSP failed	Determine if service action or tracking event
B181E449	Failed to connect to client gateway	Determine if service action or tracking event
B181E44A	Failed to kill the Common Message Server of a failed HMC client	Determine if service action or tracking event
B181E44F	Error while trying to reset the watchdog timer	Determine if service action or tracking event
B181E451	Failed to query managed information	Determine if service action or tracking event
B181E453	Attempt to bind to the listening address failed	Determine if service action or tracking event
B181E454	Attempt to listen in server address failed	Determine if service action or tracking event
B181E455	Attempt to open directory failed	Determine if service action or tracking event
B181E457	The mux id requested to ping is not valid	Determine if service action or tracking event
B181E458	Another component had an error	Determine if service action or tracking event
B181E45B	Error while attempting to create listening socket	Determine if service action or tracking event
B181E45C	Invalid Response Interval sent	Determine if service action or tracking event
B181E45D	Error while trying to create server address	Determine if service action or tracking event
B181E460	Failed to set thread schedule policy	Determine if service action or tracking event
B181E462	Failed to get the maximum allowed thread priority	Determine if service action or tracking event
B181E463	Failed to get the scheduling parameter	Determine if service action or tracking event
B181E464	Failed to set scheduling parameter to thread	Determine if service action or tracking event
B181E500	Bad hardware	Determine if service action or tracking event
B181E601	Error while attempting to read registry	Determine if service action or tracking event
B181E602	Another process is already running	Determine if service action or tracking event

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Reference Code	Description	Action
B181E604	Network client failed to send or receive	Determine if service action or tracking event
B181E606	Invalid major operation received	Determine if service action or tracking event
B181E607	Error while attempting to create listening socket	Determine if service action or tracking event
B181E608	Failed to send from network server	Determine if service action or tracking event
B181E609	Failed fork system call	Determine if service action or tracking event
B181E60A	Error returned while initializing a thread attribute	Determine if service action or tracking event
B181E60B	Error returned while setting a thread attribute	Determine if service action or tracking event
B181E60C	Error returned while creating a thread	Determine if service action or tracking event
B181E60F	Received an invalid component type while attempting to create handler thread	Determine if service action or tracking event
B181E610	Network client failed to connect	Determine if service action or tracking event
B181E611	Network client failed to send or receive	Determine if service action or tracking event
B181E612	Network client failed to close	Determine if service action or tracking event
B181E613	Failed to synchronize with server	Determine if service action or tracking event
B181E614	Failed to bind to socket	Determine if service action or tracking event
B181E615	Failed to listen to socket	Determine if service action or tracking event
B181E616	Network server failed to connect	Determine if service action or tracking event
B181E618	Failed to initialize mutex	Determine if service action or tracking event
B181E619	Error encountered while locking mutex	Determine if service action or tracking event
B181E61A	Error encountered while unlocking mutex	Determine if service action or tracking event
B181E61B	Network server failed to close	Determine if service action or tracking event
B181E61C	Failed to return log	Determine if service action or tracking event
B181E61D	Unknown minor operation id received	Determine if service action or tracking event
B181E620	Invalid operation requested to data correlation handler	Determine if service action or tracking event
B181E621	Failed to create object	Determine if service action or tracking event
B181E622	Network client failed to close	Determine if service action or tracking event
B181E623	Network client failed to send or receive	Determine if service action or tracking event
B181E625	No file name sent in by client	Determine if service action or tracking event
B181E627	Non existent registry variable sent	Determine if service action or tracking event
B181E628	File does not exist	Determine if service action or tracking event
B181E629	Error attempting to open file for reading or writing	Determine if service action or tracking event
B181E62A	Error while reading file	Determine if service action or tracking event
B181E62B	Error while attempting write registry	Determine if service action or tracking event
B181E62C	Error while writing to the file	Determine if service action or tracking event
B181E62D	Backup is not running from the same flash side as primary FSP	Determine if service action or tracking event
B181E62F	Sibling returned error on the requested operation	Determine if service action or tracking event
B181E633	Error returned while attempting to create event handler object	Determine if service action or tracking event

Reference Code	Description	Action
B181E634	Invalid event id was received	Determine if service action or tracking event
B181E635	Error while attempting to signal Fsp Role Change event	Determine if service action or tracking event
B181E64A	Backup FSP has a different level than the primary FSP	Determine if service action or tracking event
B181E64B	Primary and backup FSP have different lid levels loaded	Determine if service action or tracking event
B181E64C	Error returned when a flattened log was attempted to be restored	Determine if service action or tracking event
B181E64D	Error unflattening the log sent by primary FSP	Determine if service action or tracking event
B181E64F	Invalid role in the FSP	Determine if service action or tracking event
B181E650	Invalid fail-over type requested	Determine if service action or tracking event
B181E656	MUX control could not be taken	Determine if service action or tracking event
B181E657	Unrecognized routing type received	Determine if service action or tracking event
B181E659	Requested IPL failed	Determine if service action or tracking event
B181E65B	Failed to determine fail-over type	Determine if service action or tracking event
B181E65C	Surveillance failure of primary FSP detected at pre-standby state	Determine if service action or tracking event
B181E65F	Error attempting to determine if the current platform can support redundant FSP	Determine if service action or tracking event
B181E660	The system is in a state where fail-over operation cannot be initiated	Determine if service action or tracking event
B181E661	Sibling returned error on the requested operation	Determine if service action or tracking event
B181E663	Fail-over operation is not allowed	Determine if service action or tracking event
B181E664	Force Terminate and fail-over operation is requested	Determine if service action or tracking event
B181E665	Failed to terminate and force a fail-over	Determine if service action or tracking event
B181E666	Requested FSP IPL failed	Determine if service action or tracking event
B181E667	Invalid IPL type	Determine if service action or tracking event
B181E669	Failed to determine fail-over type	Determine if service action or tracking event
B181E66B	Synchronization for redundancy was stopped.	Determine if service action or tracking event
B181E66D	AFO request received from primary FSP	Determine if service action or tracking event
B181E66E	EFO operation is being performed by backup to take control of the host system	Determine if service action or tracking event
B181E66F	Non I/O Path fail EFO operation is being performed by backup to take control of the host system	Determine if service action or tracking event
B181E678	Error while obtaining mux control	Determine if service action or tracking event
B181E67B	Failed to close I2C ADAL	Determine if service action or tracking event
B181E683	Error while attempting to read Fsp Role registry	Determine if service action or tracking event
B181E684	Sibling returned error on the requested operation	Determine if service action or tracking event
B181E686	Error in connecting to address to talk to the Common Message Server of a failed HMC client	Determine if service action or tracking event

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Reference Code	Description	Action
B181E687	Failed to kill the Common Message Server of a failed HMC client	Determine if service action or tracking event
B181E689	Sibling returned error on the requested operation	Determine if service action or tracking event
B181E68A	The fail-over enable key has been changed by HMC	Determine if service action or tracking event
B181E68B	Sibling has requested to initiate reset/reload operation	Determine if service action or tracking event
B181E68C	Powering off primary FSP to get the hardware muxes released	Determine if service action or tracking event
B181E68F	Backup FSP is not at Runtime	Determine if service action or tracking event
B181E690	Fail-over cannot be enabled at runtime without having a backup that has not IPLed the system even once	Determine if service action or tracking event
B181E692	Error trying to get FSP alpha version key	Determine if service action or tracking event
B181E693	Failed check for fail-over capable	Determine if service action or tracking event
B181E699	Unknown HMC command received	Determine if service action or tracking event
B181E69D	Attempt to restart discovery command received	Determine if service action or tracking event
B181E712	This SRC can occur on a system in a 24" rack for either of two reasons: <ul style="list-style-type: none"> • A BPC had its sync settings cleared • The system had a single BPC that had the CEC name updated many times (a counter rolled) before a second BPC was installed, or brought back on-line. 	This error can be cleared by setting the CEC name via the HMC. This will re-initialize the registry that tells sync which BPA has the newer data.
B181E801	Failure to read from or write to registry	Determine if service action or tracking event
B181E802	Failed to synchronize with client	Determine if service action or tracking event
B181E803	Failure with network server	Determine if service action or tracking event
B181E804	Thread failure	Determine if service action or tracking event
B181E805	Client failure	Determine if service action or tracking event
B181E806	Failure when calling Code Update	Determine if service action or tracking event
B181E807	Failure from Mailbox function	Determine if service action or tracking event
B181E808	Failure to read or write using DMA for SMA Dump Header	Determine if service action or tracking event
B181E809	The SMAs that were selected to perform an MP Fatal Dump did not all complete successfully	Determine if service action or tracking event
B181E80A	System Type was not recognized	Determine if service action or tracking event
B181E80B	Failure in Load IPC Bootstrap execution	Determine if service action or tracking event
B181E80C	Null pointer while iterating through the SMAs	Determine if service action or tracking event
B181E80D	Received invalid initialization type input	Determine if service action or tracking event
B181E80E	The MP reset procedure failed	Determine if service action or tracking event
B181E80F	The MP reset procedure failed	Determine if service action or tracking event
B181E810	The MP reset procedure failed	Determine if service action or tracking event
B181E811	The MP reset procedure failed	Determine if service action or tracking event

Reference Code	Description	Action
B181E812	Failure to find a matching SMA Handle for the inputted SMA id	Determine if service action or tracking event
B181E813	Received a command to invalidate an SMA Dump when no SMA Dump was present	Determine if service action or tracking event
B181E814	Failure in dump utility that reads and formats System Type, Model, and Feature Code	Determine if service action or tracking event
B181E815	Failure in attempting to signal event	Determine if service action or tracking event
B181E81F	Test of log failed	Determine if service action or tracking event
B181E901	Reset/reload occurred	Determine if service action or tracking event
B181E902	No SRC in log	Determine if service action or tracking event
B181E90a	Unable to clear bits in the DISR	Determine if service action or tracking event
B181E90d	No routine for reset/reload call	Determine if service action or tracking event
B181E90e	Invalid routine for reset/reload call	Determine if service action or tracking event
B181E90f	Received unexpected signal	Determine if service action or tracking event
B181E910	Unable to set bits in the DISR	Determine if service action or tracking event
B181E911	Reset/reload occurred	Determine if service action or tracking event
B181EA00	Unable to create a session entry object for the specified HMC index	Determine if service action or tracking event
B181EA01	Error while packaging outbound payload data for the HMC	Determine if service action or tracking event
B181EA02	Failure occurred with another component API	Determine if service action or tracking event
B181EA03	Failed to read from or write to registry	Determine if service action or tracking event
B181EA04	No Concurrent Maintenance lock found	Determine if service action or tracking event
B181EA05	Unable to convert location code to RID	Determine if service action or tracking event
B181EA06	Failure occurred with another component API	Determine if service action or tracking event
B181EA07	Failure occurred with another component API	Determine if service action or tracking event
B181EA08	Failure occurred with another component API	Determine if service action or tracking event
B181EA09	Invalid RID for Concurrent Maintenance request	Determine if service action or tracking event
B181EA0A	Machine type or state incorrect for Concurrent Maintenance operations	Determine if service action or tracking event
B181EA0B	Node or GX resource failed during hot add	Determine if service action or tracking event
B181EA0C	Failure occurred with another component API	Determine if service action or tracking event
B181EA0D	Sequencing failure or cannot write checkpoint because system is transitioning	Determine if service action or tracking event
B181EA0E	Not enough memory to reserve a GX adapter	Determine if service action or tracking event
B181EA0F	Failed to read path from registry	Determine if service action or tracking event
B181EA10	Detected corruption of the GX reservation area	Determine if service action or tracking event
B181EA11	Failed to send activation asynchronization message	Determine if service action or tracking event
B181EA12	Failed to create session entry object	Determine if service action or tracking event
B181EA13	Unable to guard the FSP	Determine if service action or tracking event
B181EA14	Failed to unlock file mutex	Determine if service action or tracking event

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Reference Code	Description	Action
B181EA15	FSP aborted the transition file	Determine if service action or tracking event
B181EA16	Failed to send progress code	Determine if service action or tracking event
B181EA17	Unable to read sibling FSP state data	Determine if service action or tracking event
B181EA18	Failed to activate power domain	Determine if service action or tracking event
B181EA19	Abort detected	Determine if service action or tracking event
B181EA1A	The system has new FSP cables attached to the system, but they are not the appropriate ones	Determine if service action or tracking event
B181EA1E	Concurrent Maintenance operation started	Determine if service action or tracking event
B181EA1F	Concurrent Maintenance operation stopped	Determine if service action or tracking event
B181EF01	Only one active object is allowed per process	Determine if service action or tracking event
B181EF02	Failed to detect error in normal path	Determine if service action or tracking event
B181EF03	Check for valid FSP dump failure	Determine if service action or tracking event
B181EF0A	External failure writing registry	Determine if service action or tracking event
B181EF0C	Inconsistency in saved data header	Determine if service action or tracking event
B181EF0D	Failure reading or writing a file	Determine if service action or tracking event
B181EF0F	Notify PHYP failure	Determine if service action or tracking event
B181EF11	Failed to update headers	Determine if service action or tracking event
B181EF12	Failed to update headers	Determine if service action or tracking event
B181EF13	Failed to update headers	Determine if service action or tracking event
B181EF17	Failed to seek correct position in file	Determine if service action or tracking event
B181EF1A	Failed to display status to Panel	Determine if service action or tracking event
B181EF1F	Failed to enable FSP dump	Determine if service action or tracking event
B181EF28	I/O controller error	Determine if service action or tracking event
B181EF2D	Failed to signal for HMC notification	Determine if service action or tracking event
B181EF2E	Internal HMC notify failure	Determine if service action or tracking event
B181EF2F	HMC notify failure	Determine if service action or tracking event
B181EF32	Failed to initialize I/O controller	Determine if service action or tracking event
B181EF33	Failed to close I/O controller	Determine if service action or tracking event
B181EF34	Failed to check inputs	Determine if service action or tracking event
B181EF35	Failed to check inputs	Determine if service action or tracking event
B181EF36	Failed to setup for command	Determine if service action or tracking event
B181EF37	Failed to setup for command	Determine if service action or tracking event
B181EF38	Failed to trace command	Determine if service action or tracking event
B181EF39	Failed to trace command	Determine if service action or tracking event
B181EF3D	Failed to display status to Panel	Determine if service action or tracking event
B181EF3E	Failed to read registry	Determine if service action or tracking event
B181EF3F	Failed to write registry	Determine if service action or tracking event
B181EF40	Failed to trace command	Determine if service action or tracking event
B181EF41	Failed to trace command	Determine if service action or tracking event
B181EF42	NULL command specified	Determine if service action or tracking event

Reference Code	Description	Action
B181EF44	Failed default command	Determine if service action or tracking event
B181EF45	Failed to zip memory	Determine if service action or tracking event
B181EF46	Failed to collect data	Determine if service action or tracking event
B181EF4A	Failed to read registry	Determine if service action or tracking event
B181EF4B	Failed to write registry	Determine if service action or tracking event
B181EF4C	Failed to complete headers	Determine if service action or tracking event
B181EF4D	Failed to complete dumped headers	Determine if service action or tracking event
B181EF52	Invalid input for FSP dump	Determine if service action or tracking event
B181EF53	No data to gather for FSP dump specified	Determine if service action or tracking event
B181EF54	Not enough room left on flash	Determine if service action or tracking event
B181EF55	Not enough room left on flash	Determine if service action or tracking event
B181EF56	Moving backwards in the FSP dump file caused error	Determine if service action or tracking event
B181EF57	Moving backwards in the FSP dump file caused error	Determine if service action or tracking event
B181EF5A	Failed to get FSP dump id	Determine if service action or tracking event
B181EF5B	Failed to get FSP dump length	Determine if service action or tracking event
B181EF5C	Failed to read registry	Determine if service action or tracking event
B181EF5D	Failed to read registry	Determine if service action or tracking event
B181EF5E	Failed to execute Panel function 20	Determine if service action or tracking event
B181EF5F	Failed to read registry	Determine if service action or tracking event
B181EF62	Failed to execute FSP dump	Determine if service action or tracking event
B181EF63	Failed to execute FSP dump	Determine if service action or tracking event
B181EF64	Failed to execute FSP dump	Determine if service action or tracking event
B181EF65	Out of flash failure	Determine if service action or tracking event
B181EF66	FSP dump controller failure acknowledged, must continue	Determine if service action or tracking event
B181EF67	FSP dump controller failure acknowledged, terminate FSP dump sequence	Determine if service action or tracking event
B181EF69	FSP dump controller failure	Determine if service action or tracking event
B181EF6C	Failed I/O boundary device	Determine if service action or tracking event
B181EF6D	Failed to write FSP dump	Determine if service action or tracking event
B181EF71	Failed to check for valid FSP dump	Determine if service action or tracking event
B181EF73	Failed to start FSP dump due to not finding FSP dump file	Determine if service action or tracking event
B181EF75	Failed to start FSP dump due to not finding FSP dump file	Determine if service action or tracking event
B181EF79	Failed to start FSP dump	Determine if service action or tracking event
B181EF7A	Failed to increment device bank	Determine if service action or tracking event
B181EF7B	Failed opening FSP dump device for initial navigation	Determine if service action or tracking event
B181EF7C	Failed to lock FSP dump device	Determine if service action or tracking event

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Reference Code	Description	Action
B181EF7D	Failed to close FSP dump device	Determine if service action or tracking event
B181EF7E	Failed initial device navigation	Determine if service action or tracking event
B181EF7F	Failed to close device navigation	Determine if service action or tracking event
B181EF80	Code updated forced clear of all pending and existing FSP dumps	Determine if service action or tracking event
B181EF81	Failed FSP dump cancellation checking	Determine if service action or tracking event
B181EF82	Cancelled dump due to Code update	Determine if service action or tracking event
B181EF83	Failed to invalidate FSP dump	Determine if service action or tracking event
B181EF84	Failed to retrieve FSP dump	Determine if service action or tracking event
B181EF85	A FSP Dump occurred	Determine if service action or tracking event
B181EF86	Failed to read registry	Determine if service action or tracking event
B181EF87	Failed to set lid for FSP dump	Determine if service action or tracking event
B181EF88	A user or surveillance initiated a FSP dump	Determine if service action or tracking event
B181EF8B	Failed to set header value	Determine if service action or tracking event
B181EF8D	Failed to check boot watchdog sideswitch	Determine if service action or tracking event
B181EF8F	Failed to get dynamic MTD sizing	Determine if service action or tracking event
B181EF90	Failure in creating a buffer about a critical FSP dump operation	Determine if service action or tracking event
B181EF91	FSP dump was invalidated	Determine if service action or tracking event
B181EF93	Cannot enable degraded mode as FSP dump device is locked	Determine if service action or tracking event
B181EF94	Temporarily disabled function due to code update	Determine if service action or tracking event
B181EF95	Code update deallocated part of FSP dump data and user is trying to access them	Determine if service action or tracking event
B181EF96	Can't enable degraded mode because there are FSP dumps pending	Determine if service action or tracking event
B181EF97	Degraded partition interface error	Determine if service action or tracking event
B181EF98	Inconsistency in the persistent storage area in flash was detected	Determine if service action or tracking event
B181EF99	Multiple FSP dump support logic failure	Determine if service action or tracking event
B181EF9A	Out of FSP dump storage	Determine if service action or tracking event
B181EF9B	Failed to open file	Determine if service action or tracking event
B181EF9C	Failed to read registry	Determine if service action or tracking event
B181EF9D	Confirm bank enablement failure	Determine if service action or tracking event
B181EF9E	Persistent storage area was reinitialized	Determine if service action or tracking event
B181EF9F	General failure during initialization of FSP dump	Determine if service action or tracking event
B181F000	Failed to remove directory	Determine if service action or tracking event
B181F003	Not able to create directory	Determine if service action or tracking event
B181F004	Error return from file open command	Determine if service action or tracking event
B181F005	Error return trying to read from a file	Determine if service action or tracking event
B181F006	Error returned trying to write to a file	Determine if service action or tracking event

Reference Code	Description	Action
B181F007	Failed to get status of file	Determine if service action or tracking event
B181F009	Error returned trying to seek offset file	Determine if service action or tracking event
B181F00E	Error returned from a DMA Write attempt	Determine if service action or tracking event
B181F00F	Failed to get next file space	Determine if service action or tracking event
B181F010	Illegal MDRT section size detected	Determine if service action or tracking event
B181F012	Failed to determine size of registry variable	Determine if service action or tracking event
B181F013	Error return trying to read from the registry	Determine if service action or tracking event
B181F014	Error returned trying to write to the registry	Determine if service action or tracking event
B181F015	Error returned from thread function	Determine if service action or tracking event
B181F017	Error return from another function	Determine if service action or tracking event
B181F018	Received an unexpected signal	Determine if service action or tracking event
B181F019	Object not found or returned	Determine if service action or tracking event
B181F01A	The requested Policy value is not in the bounds	Determine if service action or tracking event
B181F01B	Unable to stop Clocks within the dump hardware collection	Determine if service action or tracking event
B181F01C	Control Block not valid size or invalid flattened control block	Determine if service action or tracking event
B181F01E	Status failure in call to create SRC object	Determine if service action or tracking event
B181F022	No file spaces left to store dump memory on	Determine if service action or tracking event
B181F029	System busy or there is no dump pending flag set	Determine if service action or tracking event
B181F02C	Override Content has change dump type to NO DUMP	Determine if service action or tracking event
B181F02D	A No Dump request was made	Determine if service action or tracking event
B181F02E	Manufacturing Policy Flag has set NO DUMP policy	Determine if service action or tracking event
B181F02F	No dump correctable error file present	Determine if service action or tracking event
B181F030	Mainstore dump not taken	Determine if service action or tracking event
B181F031	A correctable error was encountered while invalidating dump	Determine if service action or tracking event
B181F038	Termination of the system to occur	Determine if service action or tracking event
B181F039	Requested to invalidate the dump on the system	Determine if service action or tracking event
B181F03B	It was determined that no exit error state IPL would be needed because no mainstore dump is required	Determine if service action or tracking event
B181F03C	Mainstore dump not taken	Determine if service action or tracking event
B181F03D	Non-user requested dump and the dump policy is set to NO DUMP	Determine if service action or tracking event
B181F03E	Dump pending. Must invalidate dump before another dump can be called	Determine if service action or tracking event
B181F100	Invalid position on chain	Determine if service action or tracking event
B181F101	No chips in chain	Determine if service action or tracking event
B181F102	Commands added exceed chain command size	Determine if service action or tracking event

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Reference Code	Description	Action
B181F104	Chip not found	Determine if service action or tracking event
B181F105	Invalid Ring buffer size	Determine if service action or tracking event
B181F10A	Failure to release lock	Determine if service action or tracking event
B181F110	Failure with controller device driver	Determine if service action or tracking event
B181F111	Invalid device number	Determine if service action or tracking event
B181F118	Abort signaled	Determine if service action or tracking event
B181F11A	Failure to release lock	Determine if service action or tracking event
B181F11B	Attempt to release lock that is not held	Determine if service action or tracking event
B181F125	Invalid command ID	Determine if service action or tracking event
B181F126	Invalid use of get scom JTAG interface	Determine if service action or tracking event
B181F127	Invalid use of put scom JTAG interface	Determine if service action or tracking event
B181F128	Invalid use of flush JTAG interface	Determine if service action or tracking event
B181F12C	Unmatched CRC	Determine if service action or tracking event If it is a service action, go to FSPSP45.
B181F12D	Chip detected CRC miscompare on scan-in	Determine if service action or tracking event
B181F12E	Detected scom attentions	Determine if service action or tracking event
B181F12F	Bad parity or invalid command	Determine if service action or tracking event
B181F130	Invalid flush operation code	Determine if service action or tracking event
B181F131	Last bits of chip command status are not 0x01	Determine if service action or tracking event
B181F132	Invalid ring selection	Determine if service action or tracking event
B181F133	Clocks did not start	Determine if service action or tracking event
B181F134	Could not stop clocks	Determine if service action or tracking event
B181F135	Invalid call to enable drivers	Determine if service action or tracking event
B181F136	Invalid call to disable drivers	Determine if service action or tracking event
B181F138	Scom attention detected on the current chip	Determine if service action or tracking event
B181F139	Master Attention Alone detected	Determine if service action or tracking event
B181F13A	Unrecognized attention type condition	Determine if service action or tracking event
B181F13B	Invalid function call to attentions	Determine if service action or tracking event
B181F13D	Prohibited command found during initialize scom IPL step	Determine if service action or tracking event
B181F13E	Unable to find CEC cage	Determine if service action or tracking event
B181F140	Data shows invalid ECID value	Determine if service action or tracking event
B181F141	Indicates a potential problem with clock card	Determine if service action or tracking event
B181F142	Could not get valid hom id of active clock card	Determine if service action or tracking event
B181F200	Configuration failure	Determine if service action or tracking event
B181F201	The HOM unit ID is not present in this system	Determine if service action or tracking event
B181F202	The mainstore memory size has not been properly initialized	Determine if service action or tracking event
B181F206	There is a card in the system that is missing or has corrupted VPD data	Determine if service action or tracking event
B181F208	Avoid following the NULL rule facade pointer	Determine if service action or tracking event

Reference Code	Description	Action
B181F209	The specified card object was not found	Determine if service action or tracking event
B181F20A	The call to create a card returned a NULL pointer	Determine if service action or tracking event
B181F20B	An error occurred while creating a system domain and returned a NULL pointer	Determine if service action or tracking event
B181F20C	There was an error while attempting to create a group and the function returned a NULL group pointer	Determine if service action or tracking event
B181F20D	There is an inconsistency between the size of the JTAG chain and the number of JTAG chains counted	Determine if service action or tracking event
B181F20E	The chip rule facade pointer created was returned as NULL	Determine if service action or tracking event
B181F211	Creation of a cage pointer failed	Determine if service action or tracking event
B181F212	The cage rule facade pointer was not found	Determine if service action or tracking event
B181F217	An error occurred while attempting to create the JTAG controller object and returned a NULL instance pointer	Determine if service action or tracking event
B181F21C	The instance variable for the JTAG chains is NULL even after successful creation of the chains	Determine if service action or tracking event
B181F21D	The FRU was not found or does not exist	Determine if service action or tracking event
B181F21E	The MRU or FRU was not found or does not exist	Determine if service action or tracking event
B181F21F	Invalid input	Determine if service action or tracking event
B181F220	The functional unit for a JTAG operation was not found	Determine if service action or tracking event
B181F222	The functional unit has experienced a hardware monitor error	Determine if service action or tracking event
B181F225	Attempting to write an invalid frequency to a clock card	Determine if service action or tracking event
B181F227	An invalid VPD port number was encountered	Determine if service action or tracking event
B181F228	A memory block trying to be referenced is out of range	Determine if service action or tracking event
B181F229	The plug count for the MCM is not correct.	Determine if service action or tracking event
B181F22A	There was not enough functional hardware found in the system to continue IPLing	Determine if service action or tracking event
B181F22B	A memory controller group pointer was initialized to NULL by the cvMapper	Determine if service action or tracking event
B181F22C	Got an invalid unit id	Determine if service action or tracking event
B181F239	Detected a missing chip	Determine if service action or tracking event
B181F23E	There is a mismatch between the number of nodes present and the type of SMP cable being used	Determine if service action or tracking event
B181F23F	The mainstore configuration changed from the previous IPL, mainstore cannot be preserved	Determine if service action or tracking event
B181F241	Light strips have not been plugged correctly	Determine if service action or tracking event
B181F242	The slot specified should NOT be turned on	Determine if service action or tracking event

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Reference Code	Description	Action
B181F243	PRS data returned indicates that the Light Strip attempting to be powered off was not powered off	Determine if service action or tracking event
B181F244	It seems that both clock cards, which should be present in the system, are not present in the system	Determine if service action or tracking event
B181F245	This is an unrecognized cable state for this machine	Determine if service action or tracking event
B181F25E	Cannot get a pointer to the System Fabric Group	Determine if service action or tracking event
B181F2C0	Function pointer from dynamic load is NULL	Determine if service action or tracking event
B181F2C1	Functional Unit of wrong type	Determine if service action or tracking event
B181F2CC	Invalid parameter passed in to function	Determine if service action or tracking event
B181F2CD	Failed trying to release JTAG Controller lock after reading the JTAG Controller's interrupt registers	Determine if service action or tracking event
B181F2DC	Received an empty list of Chips at attention	Determine if service action or tracking event
B181F2DE	Elastic Interface Alignment Procedure never completed	Determine if service action or tracking event
B181F2DF	Fatal IAP Error	Determine if service action or tracking event
B181F2E0	Non-fatal IAP Error/Warning	Determine if service action or tracking event
B181F2E3	Couldn't get pointer object	Determine if service action or tracking event
B181F2E4	Selected elastic interface is Non-functional	Determine if service action or tracking event
B181F2E5	One or more lines are stuck low for the ISR because the value read back does not match FF's	Determine if service action or tracking event
B181F2E6	The attention line stuck high test failed to clear all the FSP attention lines	Determine if service action or tracking event
B181F301	Object not initialized	Determine if service action or tracking event
B181F304	Object attributes not set	Determine if service action or tracking event
B181F305	Failed to set scom register attributes	Determine if service action or tracking event
B181F306	Attributes are not set	Determine if service action or tracking event
B181F308	Attributes not yet set	Determine if service action or tracking event
B181F309	Could not find a Functional Unit that used the specified ring or register	Determine if service action or tracking event
B181F30A	Data not extracted	Determine if service action or tracking event
B181F30B	Data not inserted	Determine if service action or tracking event
B181F30F	Incorrect buffer size	Determine if service action or tracking event
B181F310	Incorrect buffer size	Determine if service action or tracking event
B181F311	Required register or ring not present	Determine if service action or tracking event
B181F312	File open error	Determine if service action or tracking event
B181F401	Illegally calling this function	Determine if service action or tracking event
B181F405	Could not create cage rule facade for this cage	Determine if service action or tracking event
B181F407	Could not find a unique or default entry for this combination of inputs	Determine if service action or tracking event If it is a service action, go to FSPSP45.
B181F408	Could not read card slot table - end of file or file failure	Determine if service action or tracking event

Reference Code	Description	Action
B181F409	End of file reached before row number found	Determine if service action or tracking event
B181F40a	Size of array needed exceeds size of array passed in	Determine if service action or tracking event
B181F40b	Number exceeded maximum number allowed	Determine if service action or tracking event
B181F40c	Could not open library for the object to create or unflatten	Determine if service action or tracking event
B181F40d	Could not open class for the object to create or unflatten	Determine if service action or tracking event
B181F500	File IO error occurred	Determine if service action or tracking event
B181F501	The specified HOM Object was not found	Determine if service action or tracking event
B181F502	Specified HOM Object does not exist	Determine if service action or tracking event
B181F504	The requested function is invalid	Determine if service action or tracking event
B181F505	User attempted to save a HOM signature into a data buffer that was too small for the amount of data to be saved	Determine if service action or tracking event
B181F506	Got an invalid unit id	Determine if service action or tracking event
B181F507	A thread failed to start	Determine if service action or tracking event
B181F620	Failure with functional unit	Determine if service action or tracking event
B181F621	Scom bus busy after timeout	Determine if service action or tracking event
B181F625	Timed out waiting for instructions to stop	Determine if service action or tracking event
B181F62A	Timeout reached on scom poll	Determine if service action or tracking event
B181F62B	Tried a clock operation which isn't supported on this functional unit	Determine if service action or tracking event
B181F62E	Trying to instruction step while they are still running	Determine if service action or tracking event
B181F630	I2C lock counter is a negative number, it should always be positive or zero	Determine if service action or tracking event
B181F633	Failure while trying to open the attention handler data file for write operation	Determine if service action or tracking event
B181F634	The bits active in the Special Attention register are not supported	Determine if service action or tracking event
B181F636	Object pointer returned NULL	Determine if service action or tracking event
B181F638	Clocks need to be on or off but mode says not to change state	Determine if service action or tracking event
B181F639	Bad parameter passed into function	Determine if service action or tracking event
B181F63B	Instructions failed to start	Determine if service action or tracking event
B181F63C	Instructions failed to step	Determine if service action or tracking event
B181F63D	Unexpected NULL pointer for Fabric Functional unit	Determine if service action or tracking event
B181F647	An attention is active from a thread which is not alive	Determine if service action or tracking event
B181F648	Cannot process special attention since Memory controller object is null	Determine if service action or tracking event
B181F649	XScom is busy or has errors	Determine if service action or tracking event

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Reference Code	Description	Action
B181F64A	FOCR state machine wasn't idle after clearing	Determine if service action or tracking event
B181F64B	The GR GX auto TLAR calculation failed	Determine if service action or tracking event
B181F64C	Failed to complete self synchronization	Determine if service action or tracking event
B181F64D	Error encountered during self synchronization	Determine if service action or tracking event
B181F64F	Address + entries exceeds maximum SMA External SRAM size	Determine if service action or tracking event
B181F653	Service buffer timed out while writing data	Determine if service action or tracking event
B181F654	An attention not supported has been detected in SMA hardware	Determine if service action or tracking event
B181F658	Invalid data	Determine if service action or tracking event
B181F659	Not able to find master or slave target time data for a chip	Determine if service action or tracking event
B181F65A	GS Figtree database not loaded for this object or Functional Unit	Determine if service action or tracking event
B181F65D	Memory queues are not idle	Determine if service action or tracking event
B181F65E	Maintenance command timed out	Determine if service action or tracking event
B181F65F	Maintenance command failed	Determine if service action or tracking event
B181F660	Command in progress while trying to send maintenance command	Determine if service action or tracking event
B181F661	Instruction start or stop attempted on non alive thread	Determine if service action or tracking event
B181F662	Fabric initialization failed on processor	Determine if service action or tracking event
B181F663	Fabric initialization failed on processor	Determine if service action or tracking event
B181F664	Fabric Quiesce failed	Determine if service action or tracking event
B181F67B	Got an invalid unit id or NULL pointer	Determine if service action or tracking event
B181F67C	Calling function on invalid object	Determine if service action or tracking event
B181F67D	Operation attempted on nonfunctional Functional unit	Determine if service action or tracking event
B181F686	Can't get the associated FRU ID	Determine if service action or tracking event
B181F689	Could not find associated Chip	Determine if service action or tracking event
B181F68C	Unsupported bit(s) set in the local special attention register	Determine if service action or tracking event
B181F68D	Fir bit indicates problem with SP code or SMI	Determine if service action or tracking event
B181F6F2	Microcode failed to execute	Determine if service action or tracking event
B181F6F3	Microcode failed to execute	Determine if service action or tracking event
B181F6F6	Bootstrap executed successfully, but FSP was not permitted to set MP Available latch	Determine if service action or tracking event
B181F7A0	The dump file contains a dump and cannot be read by the saved configuration for fast boot feature to examine the previous system configuration	Determine if service action or tracking event
B181F7A1	Figtree library call failed	Determine if service action or tracking event
B181F7A2	No TCE region found for GX Controller	Determine if service action or tracking event

Reference Code	Description	Action
B181F7A7	No valid MC PLL Multiplier found when MC uses internal clock source	Determine if service action or tracking event
B181F7A8	Host PCI enable failed	Determine if service action or tracking event
B181F7A9	Host PCI verify failed	Determine if service action or tracking event
B181F7AA	No functional Processor clock card was found	Determine if service action or tracking event
B181F7AB	Memory Sharing Group is an invalid configuration	Determine if service action or tracking event
B181F7AC	A chip is in Bus Trace Mode, but doesn't have any attached memory	Determine if service action or tracking event
B181F7AD	Memory group contains chip in Bus Trace Mode, but base address is zero	Determine if service action or tracking event
B181F7AE	No system EI table found for bus	Determine if service action or tracking event
B181F7AF	No entry in system EI data table for bus and master chip position	Determine if service action or tracking event
B181F7B8	Resource pointer was NULL	Determine if service action or tracking event
B181F7B9	The passed in buffer pointer was NULL	Determine if service action or tracking event
B181F7BA	Couldn't find frequency data type requested	Determine if service action or tracking event
B181F7BB	The system resource(s) in the callout list failed a system configuration test	Determine if service action or tracking event
B181F7BC	The user specified LMB size is not valid for this system's memory size, so the system will use the default LMB size for this configuration	Determine if service action or tracking event
B181F801	NULL Functional Unit Pointer	Determine if service action or tracking event
B181F802	Not enough space	Determine if service action or tracking event
B181F803	Not enough space	Determine if service action or tracking event
B181F804	Index out of bounds	Determine if service action or tracking event
B181F805	Failed to read the number of memory chips	Determine if service action or tracking event
B181F806	Procedure error using display/alter	Determine if service action or tracking event
B181F807	Invalid thread selected for FPSCR	Determine if service action or tracking event
B181F809	Unable to associate array ID for address	Determine if service action or tracking event
B181F80a	Invalid operation specified	Determine if service action or tracking event
B181F80b	Unable to Create or remap Logical to Physical Mapper	Determine if service action or tracking event
B181F80c	Could not create server object instance	Determine if service action or tracking event
B181F814	Invalid address. Does not map to any memory location	Determine if service action or tracking event
B181F815	Invalid Data Length specified	Determine if service action or tracking event
B181F816	NULL Rule Chip Facade Pointer	Determine if service action or tracking event
B181F817	Error encountered while reading array entry	Determine if service action or tracking event
B181F818	Error encountered while writing array entry	Determine if service action or tracking event
B181F81b	Mismatch data error	Determine if service action or tracking event
B181F81e	Unable to allocate buffer or NULL pointer detected	Determine if service action or tracking event

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Reference Code	Description	Action
B181F950	received an unexpected signal	Determine if service action or tracking event
B181F951	Error from abort message	Determine if service action or tracking event
B181F952	Buffer is NULL or is too small to hold information	Determine if service action or tracking event
B181F953	Failed to receive message	Determine if service action or tracking event
B181F954	Error creating serial thread in cec server	Determine if service action or tracking event
B181F955	Error creating listener thread in cec server	Determine if service action or tracking event
B181F956	Failed to get token in cec server	Determine if service action or tracking event
B181F957	Invalid command received	Determine if service action or tracking event
B181F958	Failure obtaining mutex lock in serial thread	Determine if service action or tracking event
B181F959	Error while sending message	Determine if service action or tracking event
B181F95A	Error while sending message	Determine if service action or tracking event
B181F95B	Error receiving message in serial thread	Determine if service action or tracking event
B181F95E	Error initializing cec server daemon	Determine if service action or tracking event
B181F95F	Invalid arguments	Determine if service action or tracking event
B181F966	Error while unflattening HOM data	Determine if service action or tracking event
B181F968	Error writing to bit buffer	Determine if service action or tracking event
B181F96A	Not enough parameters	Determine if service action or tracking event
B181F96B	No function specified	Determine if service action or tracking event
B181F96C	Specified function not found	Determine if service action or tracking event
B181F96D	Too many parameters supplied	Determine if service action or tracking event
B181F96E	Unknown option specified	Determine if service action or tracking event
B181F96F	Some value required for these options is missing	Determine if service action or tracking event
B181F970	Unknown parameter type	Determine if service action or tracking event
B181F971	Input value out of range	Determine if service action or tracking event
B181F972	Invalid input character	Determine if service action or tracking event
B181F973	String not found in lookup table	Determine if service action or tracking event
B181F974	Buffer too small	Determine if service action or tracking event
B181F975	Unknown output type	Determine if service action or tracking event
B181F978	An HMC requested operation is not supported	Determine if service action or tracking event
B181FAA3	Invalid parameter to function	Determine if service action or tracking event
B181FAA4	Number of packets sent does not equal number received or CRC not zero	Determine if service action or tracking event
B181FAA9	Can't get the sharing group for this Chip	Determine if service action or tracking event
B181FAB0	Physical Status registers not set to link up; test can not proceed	Determine if service action or tracking event
B181FAB1	Number of packets sent does not equal number received or CRC not zero	Determine if service action or tracking event
B181FAB2	RIO test failure	Determine if service action or tracking event
B181FAB3	Galaxy test failed during communication stage	Determine if service action or tracking event

Reference Code	Description	Action
B181FB51	Maximum number of wire test errors has been reached	Determine if service action or tracking event
B181FB54	RDT has detected a hardware error	Determine if service action or tracking event
B181FD00	An FSP or DMA path was GARDed out	Determine if service action or tracking event
B181FD01	The command line was used to manually configure or deconfigure a resource	Determine if service action or tracking event
B181FD02	GARD Data did not exist because either it was the first IPL on this machine or NVRAM had been cleared	Determine if service action or tracking event
B181FD03	GARD detected a new version of the gard data area	Determine if service action or tracking event
B181FD04	GARD detected corrupt gard date	Determine if service action or tracking event
B181FD05	GARD could not open the Gard Memory File	Determine if service action or tracking event
B181FD06	Error trying to read a file	Determine if service action or tracking event
B181FD07	Error trying to write IO Data to the Gard file	Determine if service action or tracking event
B181FD0A	Failed setting the rank status in the HOM	Determine if service action or tracking event
B181FD0B	Failed setting functional status of a non-rank unit	Determine if service action or tracking event
B181FD0D	Failed to read registry	Determine if service action or tracking event
B181FD0E	Failed to read the VPD data for a given resource id	Determine if service action or tracking event
B181FD10	The input Resource ID is not an FSP that can have its GARD state changed	Determine if service action or tracking event
B181FD11	Manual deconfiguration of FSP is not allowed because FSP is already System Deconfigured or because we are at runtime	Determine if service action or tracking event
B181FD12	This interface was called with more than the allowed number of DMA Paths	Determine if service action or tracking event
B181FD13	The input DMA path did not match any stored in VPD	Determine if service action or tracking event
B181FD14	Ungarding the sibling FSP is not allowed at Runtime	Determine if service action or tracking event
B1828811	Incorrect command in Attention Area memory as it does not match up with the requested Service Routine	Determine if service action or tracking event
B182901C	Failed trying to get status of the LID file	Determine if service action or tracking event
B182901D	Failed to get OLC or CONTINUE ACK response from PHYP	Determine if service action or tracking event
B182901F	SPIRA does not have sufficient space for the data structure	Determine if service action or tracking event
B1829025	Event id which satisfied the monitor was incorrect	Determine if service action or tracking event
B1829503	The FSP has queued its maximum number of messages to the send queue	Determine if service action or tracking event
B1829504	There is nobody waiting on the message we just received from PHYP	Determine if service action or tracking event

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Reference Code	Description	Action
B1829507	Unable to write error\event log that PHYP wanted	Determine if service action or tracking event
B1829508	PHYP passed the FSP a zero TCE or a TCE with something in the top 4 bytes	Determine if service action or tracking event
B182950C	Indicates that PHYP sent the FSP a bad size, modifier or HMC index	Determine if service action or tracking event
B182950D	PHYP didn't provide enough data to write the LID or the first TCE is too small to contain the LID header (although the latter is less likely)	Determine if service action or tracking event
B1829511	Warning that HMC message has reached timeout limit	Determine if service action or tracking event
B1829512	PHYP tried adding an existing HMC buffer to the list	Determine if service action or tracking event
B1829513	PHYP is guarding the anchor card and since we don't get any SRC from them, we make this one up	Determine if service action or tracking event
B182951A	Wrong modifier received on OLC command	Determine if service action or tracking event
B182951C	PHYP didn't acknowledge the message that the FSP sent to it within the architected timeout value	Determine if service action or tracking event
B182951D	PHYP tried to use a HMC buffer that they haven't defined or they don't own	Determine if service action or tracking event
B182951E	PHYP returned non-zero status in the acknowledge message	Determine if service action or tracking event
B1829523	Failed on setup for reset/reload	Determine if service action or tracking event
B182D004	Failed to get enclosure list	Determine if service action or tracking event
B182D005	Failed to set drawer information	Determine if service action or tracking event
B182E500	Bad hardware	Determine if service action or tracking event
B182F023	Bad TCE returned	Determine if service action or tracking event
B1878707	Error function not available	Determine if service action or tracking event
B187E500	Bad hardware	Determine if service action or tracking event
B1A3E500	Bad hardware	Determine if service action or tracking event

Table 3. (B1xx) Service processor reason codes' ranges

Reason codes for	Range	Description
End Device Abstraction Layer (EDAL) ranges		
DMA EDAL	'1000'x through '10FF'x	<p>The direct memory access EDAL component (DMAE) is a shared library that allow applications to transfer data between system memory and the service processor's address space.</p> <p>DMAE is normally used by the Hypervisor data initialization (HDAT) component during boot. The dump component also uses DMAE for collecting dumps.</p>

Reason codes for	Range	Description
Control Panel I2C EDAL	'1100'x through '111F'x	IPNL provides an interface to the control panel hardware and handles all of the internal communication details. The PANL component uses IPNL extensively.
VPD I2C EDAL	'1300'x through '13FF'x	IVPD collects and reports vital product data (VPD) found in the system unit hardware. Data collected from the hardware is analyzed and stored file system of the service processor. Hardware VPD update facilities are also provided. VPD collection and reporting provides a system-wide view of the current hardware configuration.
RPC I2C EDAL	'1400'x through '141F'x	IRPC manages the low-level IIC bus interface to remote power controllers (RPCs) on some types of servers.
Smart Chip VPD EDAL	'1500'x through '15AF'x	SCED collects and reports VPD found in the system unit hardware. Data collected from the hardware is analyzed and stored in the file system of the service processor. Hardware VPD update facilities are also provided. VPD collection and reporting provides a system-wide view of the current hardware configuration.
Power control code ranges		
Power Control Interface	'2000'x through '204F'x	The system power interface (SPIF) component provides a communication interface between service processor components and the system power control network (SPCN). The server uses SPIF to obtain the system power state and other data.
Remote Power Control	'2100'x through '211F'x	REMP manages the high-level communication protocol between the service processor and the RPCs on some types of servers.
IPL Lock	'2200'x through '222F'x	The IPL lock component synchronizes dependent operations with boot transition requests. It performs this synchronization by evaluating the system when a boot is requested. Note: A dependent operation is an operation that requires that no boot transition request of a certain type be allowed while the operation is being performed. Writing to flash memory is an example of a dependent operation.
Auto Power On Restart	'2300'x through '231F'x	This component's functionality is configured by the customer. If enabled, this component automatically performs a power-on reboot following an unexpected loss of power.
Remote Platform Power On	'2400'x through '241F'x	The remote platform power on component allows a user to remotely power on a system using the wake on LAN capability (which is accessed via the ASMI) when the system is powered off.
Thermal Management	'2600'x through '261F'x	The thermal management component is responsible for reading processor thermal calibration data, for providing an interface which firmware uses to read processor temperatures, and for handling thermal alerts generated by the processor's thermal sensors.
System infrastructure ranges		

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Reason codes for	Range	Description
Code Update	'3000'x through '305F'x	<p>CUPD controls the updating of firmware on the service processor.</p> <p>You might see this code when the error occurs:</p> <ul style="list-style-type: none"> • During the code update (flash) process. • During the code promotion process. After the code updates successfully and the system reboots from the new code side, a user might use the <i>code promote</i> command to copy the new code from the temporary (or T side) to the permanent (or P) side. • When the service processor reboots after a code update, which is when the service processor makes the redundant boot code. • During the booting of the managed system, which is when the code update process attempts to verify flash image during the power on process for the system unit. <p>The error can be caused by:</p> <ul style="list-style-type: none"> • A bad or invalid system firmware image • A service processor failure, which leads to the firmware being unable to perform the code update • Corruption of the update file, which occurs when the file is sent from the Hardware Management Console (HMC) or the Hypervisor • An internal code problem • A problem with the network issue • A user error. which might occur when a user does not follow the update process
Discovery	'3500'x through '35FF'x	<p>The DSCV component manages dual service processors in those systems that can have a primary and a secondary service processor. DSCV exchanges the required information between the service processors to establish the various communication links between them.</p>
IPL Parameters	'4000'x through '402F'x	<p>The IPLP component manages some of the service processor registry data that is transferred to the Hypervisor at boot time, such as IPL speed, logical memory block size, and so on.</p>
RTC Application	'5000'x through '503F'x	<p>The RTIM component manages the battery-backed real time clock hardware on the service processor, which is the source of the system-level time-of-day (TOD) clock.</p>
State Manager	'6000'x through '603F'x	<p>The SMGR component is responsible for supervising the IPL. It determines the validity of an IPL request and attempts to IPL the system.</p>
State Transition Manager	'6500'x through '651F'x	<p>The STTR component contains the various transition files that the system uses to make the transition from one state to another (for example, powering on or powering off the system unit, performing a platform dump, and so on).</p>
Error Logging	'7000'x through '703F'x	<p>The ERRL component provides data logging, entry management, and the reporting of application errors to the operating system.</p>

Reason codes for	Range	Description
Primary PCI bus Initialization	'7100'x through '711F'x	The PPIN component monitors for power events, such as power on and power off.
Boot Plug-in	'7200'x through '721F'x	The BOOT component reads user preferences and determines which service processor flash side to boot from.
Service processor firmware utilities ranges		
Switch BCU utility	'8100'x through '811F'x	The SBCU component manages the PCI bus switch state in the registry. Note: Two switch states are possible: <ul style="list-style-type: none"> • The service processor owns the PCI bus • The system unit owns the PCI bus
SRC Interface	'8200'x through '821F'x	The SRCI component is a service processor utility that allows the user to do the following: <ul style="list-style-type: none"> • Create, display, and trace SRCs • Retrieve SRC entries from an SRC trace
CEC Termination	'8300'x through '834F'x	The CTRM (CEC Termination) component terminates the service processor. When an application encounters a fatal error (that the application determines should lead to system termination), the application uses its error log to call CTRM. After being called, CTRM displays the terminating SRC on the panel and records the error.
NVRAM Initialization	'8400'x through '841F'x	The NVRI component used to initialize and configure the service processor.
Event Notification	'8500'x through '853F'x	The EVEN component provides the facilities to signal and monitor for the occurrence of specified events. It is one way of performing interprocess communication within the service processor firmware.
Process Error Context	'8600'x through '861F'x	The PERC component allows a service processor application to collect some flight recorder information (FFDC) when the service processor receives an unexpected signal.
Network Server	'8700'x through '877F'x	The NETS code component dynamically loads libraries for the operations and functions that it services.
Network Client	'8780'x through '87FF'x	The NETC component is the client interface plug-in that applications running on the service processor, manufacturing and the HMC use to talk to the servers and other applications running on the service processors. NETC provides wrappers for the TCP/IP and sockets API and serial traffic APIs. It also provides a common message format for communication and data packets.
Hypervisor Service Routine	'8800'x through '883F'x	The HYSR component allows the user to run a Hypervisor service routine from the service processor. Typical uses of a Hypervisor service routine include validating a system storage address and performing a system storage dump for a platform dump.
Process Synchronization	'8900'x through '891F'x	The SINK component synchronizes the time when a server process is ready to interact with a client process.
Utility Component	'8A00'x through '8A1F'x	The UTIL component provides common functionality throughout the service processor environment, such as common file, registry, and semaphore manipulation.
External firmware interfaces ranges		

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Reason codes for	Range	Description
Hypervisor Data Initialization	'9000'x through '904F'x	The HDAT component does the following: <ul style="list-style-type: none"> • Loads the Hypervisor code into system storage • Gathers various pieces of information that describe the hardware configuration and various boot parameters and loads that data into the main storage • Starts the execution of the processors that run the Hypervisor and the partition firmware
Host Virtual Serial Interface	'9200'x through '921F'x	The HVSI component provides the host virtual serial interface, which allows the host operating system to use the serial ports of the service processor as if they were the native serial ports.
Mailbox Handling	'9500'x through '952F'x	The MBOX component handles certain hardware on the service processor (called the mailbox) that is accessible to both the operating system and the service processor. The mailbox enables the system to transfer small amounts of data between the service processor and operating system, so that they can communicate to each other at runtime.
Service Processor Capacity Upgrade on Demand	'9900'x through '991F'x	The SCOD component provides information about the state of the previous power off and whether the system lost AC power after the power off.
Panel	'A000'x through 'A07F'x	The PANL component processes the pressing of control panel buttons and updates the control panel display appropriately.
Virtual Panel	'A200'x through 'A21F'x	The VPNL component implements the virtual control panel functions in the firmware.
Vital Product Data (VPD)	'B000'x through 'B0FF'x	The SVPD component collects and reports VPD found in the hardware of the system unit, which provides a system-wide view of the current hardware configuration. Data collected from the hardware is analyzed and stored in file system of the service processor. SVPD also provides hardware VPD update facilities.
VPD Location Codes	'B100'x through 'B11F'x	The VLOC component builds the location code table that the Hypervisor uses.
VPD LED Access	'B200'x through 'B21F'x	The VLED component provides library routines to drive the LEDs of the system unit. VLED uses the SVPD component to provide the bus mapping information. Other components can use the VLED routines to drive the LEDs to the desired state.
HMC Interface	'C000'x through 'C03F'x	The HMCX component provides the communications interface between the HMC and the service processor of the managed system.
Power Management	'C100'x through 'C1FF'x	The POWR component controls the power supplies, regulators and blowers and collects and reports power status, power VPD, and temperatures of the system unit and I/O towers and drawers.
Service Processor Menus	'D000'x through 'D03F'x	The MENU component provides both a Web browser interface and a legacy TTY (text based) interface (both are known as the Advanced System Management Interface, or ASMI). The ASMI enables users to configure the service processor, change selected system-level settings, and access certain service processor resources.

Reason codes for	Range	Description
Attention Handler	'D100'x through 'D13F'x	The ATTN component processes the checkstops, recovered errors, and special attentions that come from the hardware. ATTN also makes appropriate calls to components like processor runtime diagnostics (PRD) so that the system properly handles attentions.
Reliability, Availability, and Serviceability (RAS) ranges		
Call-in/Call-out	'E000'x through 'E02F'x	The CALL component provides remote service functions (like call home, call in, and call out) and SRC display on serial ports.
Snoop/Wrap	'E100'x through 'E11F'x	The SNOOP component provides the serial port snoop function. SNOOP can be used only when the system is in single partition mode. This component also detects the legacy iSeries® UPS, if present, and reports the number of serial ports available to the operating system.
CEC Reboot	'E200'x through 'E21F'x	The RBOT component determines if an system unit re-IPL needs to occur after a termination.
LED Management	'E300'x through 'E31F'x	The LEDS component supports the service indicators (used by to identify failing FRUs) and controls the system attention indicator.
Surveillance	'E400'x through 'E460'x	The SURV component detects the failures of critical components, such as the Hypervisor or the HMC, and takes the appropriate actions.
Processor Runtime Diagnostics	'E500'x through 'E51F'x	When the service processor receives an attention from system hardware, PRDF examines the error registers in the system to determine what happened and creates an error log entry that calls out one or more failing items. Note: The E500 code denotes a hardware error, or an error in software other than processor runtime diagnostics. The E501 code is reserved for PRD code errors.
Redundancy Manager	'E600'x through 'E6A0'x	The RMGR component controls the interactions between the primary and the secondary service processors on a model 550, 590, or 595 system.
Synchronization of Redundant Service Processors	'E700'x through 'E71F'x	The SYNC component, which is part of the RMGR component, performs data synchronization between the primary and the secondary service processors on a model 550, 590, or 595 system.
SMA Dump	'E800'x through 'E81F'x	The SDMP component controls the sequencing of the initialization of SMA adapters to the <i>message passing available</i> state.
Reset/Reload	'E900'x through 'E91F'x	The RSRL component saves the most recent critical error log in the event of a reset or reload event (on the assumption that this log best explains the reason for the reset). In cases where the reset or reload event terminates the system, RSRL sends its error log to the administrator.
Concurrent Maintenance	'EA00'x through 'EA1F'x	The CCMM component provides the interface between the concurrent maintenance program (which is part of Service Focal Point) on the HMC and the service processor of the managed system .

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Reason codes for	Range	Description
Service Processor Dump (Belly-up DuMP)	'EF00'x through 'EFCF'x	The BDMP component dumps data that the system can use to debug a failure that occurs when the service processor and bulk power subsystems encounter an error on servers that are housed in 24-inch racks. The following service processor or bulk power subsystem errors might cause this type of dump: <ul style="list-style-type: none"> • An application failure that leads to a core dump • A panic of the service processor kernel • An unexpected reset of the service processor or bulk power subsystem • A user-injected dump on the service processor or bulk power subsystem that captures the state of the entire subsystem at a given moment in time
Dump	'F000'x through 'F03F'x	After the system detects a checkstop or other hardware error condition, the DUMP component gathers required hardware and possibly system memory contents to facilitate error recreation and analysis.
Hardware Object Model (HOM) ranges		
HOM JTAG Interface	'F100'x through 'F16F'x	The HJTG component provides an interface for scanning data from firmware into the actual chips or from the chips into the firmware. The JtagInterface object represents the physical JTAG interface that is internal to each hardware chip. Firmware uses this piece of chip logic to communicate with the chip, and it is used anytime a JTAG operation is performed.
HOM Packaging Units	'F200'x through 'F25F'x	The HPKU component is a package management class that holds and manages the system hardware object model.
HOM Groups	'F2C0'x through 'F2FF'x	The HFUG component provides procedural support for chip functionality.
HOM Scan Rings	'F300'x through 'F31F'x	The HREG (HOM register) component provides a firmware object that represents a scan ring, SCOM register, or an alias, with its unique characteristics (address, length, etc.) in order to scan chips. HREG also provides the data storage area (called a bit buffer) that holds the data to be scanned as well as the algorithms the system uses to manipulate the data stored in the buffer.
HOM Rules	'F400'x through 'F41F'x	The RULE component provides access to certain configuration and engineering data that is stored in the esw_rtbl component. The system uses the data stored in the edw_rtbl component to model the system and to read from the hardware.
HOM Rules Tables	'F450'x through 'F46F'x	The RTBL component holds data.
HOM Utilities	'F500'x through 'F51F'x	The HUTL component provides common utility functions used by all of the hardware access code. HUTL also handles error logging and recovery actions for the system unit hardware during booting and execution of high-level boot steps related to initializing the system unit.
HOM Functional Units	'F620'x through 'F6FF'x	The HFUS component provides internal access to the chip functionality.
Central Electronics Complex (CEC) ranges		

Reason codes for	Range	Description
CEC Chip Initialization	'F700'x through 'F7FF'x	The CINI component initializes the chips in the system unit, based on the system configuration. These actions include configuring system memory and address ranges, chip modes, and communicating from chip to chip. CINI also determines and sets the processor and bus frequencies.
Display/Alter	'F800'x through 'F81F'x	The DADA component accesses (reads) and manipulates (writes) user information inside the system unit hardware by using the JTAG interfaces. Several hardware components use this functionality, including the certain CPU chips, L3 cache devices, and I/O controllers.
Hardware Interface Commands	'F950'x through 'F98F'x	The CHIC component provides the mechanism that allows a call made in an external service processor application to execute inside the system unit server application.
Automated Built-in Self-Test (ABIST)	'FA00'x through 'FA1F'x	The ABST component runs internal chip diagnostics as part of the system boot process. ABST tests the logic and arrays in each chip (as applicable) and performs array repair (bit sparing) for processor chips, if necessary.
Logic Built-in Self-Test (LBIST)	'FA50'x through 'FA6F'x	The LBST component runs internal chip diagnostics as part of the system IPL process. LBST tests the logic and arrays in each chip (as applicable) and performs array repair (bit sparing) for processor chips, if necessary.
Memory Diagnostics	'FAA0'x through 'FABF'x	The MDIA component performs diagnostics on the system memory and L3 cache during the boot process by writing patterns into and reading the patterns back from system storage and L3 cache.
SIBATS	'FB00'x through 'FB1F'x	The SBAT component is part of the LBIST component.
Wiretest	'FB50'x through 'FB6F'x	The WIRE component, a diagnostic routine used when the system is booted in slow mode, verifies the continuity and independence of interconnections in the system unit. WIRE checks for open and short circuits on the testable nets between chips.
Ring API (CEC Utility)	'FC00'x through 'FC1F'x	The RAPI component does not display reason codes.
Resource Guard	'FD00'x through 'FD1F'x	The GARD component provides the repeat GARD functionality for all "gardable" items (memory and processors) that are deconfigured and then marked "garded out" either at IPL or runtime. GARD also provides system configuration information to the menu system about system configuration.

(B1xx) Service processor firmware reference code callouts

A B1xx reference code indicates that an error occurred in a service processor firmware-detected operation. To resolve any B1xx reference code, use the following procedure:

1. Does the reference code have a format of B151 72xx or B181 72xx that displays during the power-on process after power was connected to the server but before the server reaches the Power On Standby state?

Yes: See the description in "Table 1. (B1xx) Service processor early termination reference codes" on page 462. Perform Failing Item FSPSP02.

No: Continue with the next step.

2. Perform the following:

B1xx

- a. Using the callout list provided with the error replace the first or next FRU or perform the first or next isolation procedure in the list starting with the highest priority. For more information, see the following:
 - Finding part locations for links to removal and replacement information
 - Service processor isolation procedures for links to service processor isolation procedures
 - “(B1xx) Service processor firmware reference code descriptions” on page 378 for a description of the SRC
- b. Perform a slow-boot IPL.

Did the same error code appear?

No: Go to Verifying the repair. **This ends the procedure.**

Yes: Continue with the next step.

3. Is the new error code the same as the one that brought you to this procedure?

Yes: Replace the next FRU or perform the next procedure in the list.

No: Go to the Start of call procedure to service this new error code. **This ends the procedure.**

Table 1. (B1xx) Service processor early termination reference codes

Reference Code	Description	Action
B1517200	Invalid boot request	FSPSP02
B1517201	Service processor failure	FSPSP02
B1517202	The permanent and temporary firmware sides are both marked invalid	FSPSP02
B1517203	Error setting boot parameters	FSPSP02
B1517204	Error reading boot parameters	FSPSP02
B1517205	Boot code error	FSPSP02
B1517206	Unit check timer was reset	FSPSP02
B151720A	Power-off reset occurred. FipsDump should be analyzed: Possible hardware problem	FSPSP02
B1817200	Invalid boot request	FSPSP02
B1817201	Service processor failure	FSPSP02
B1817202	The permanent and temporary firmware sides are both marked invalid	FSPSP02
B1817203	Error setting boot parameters	FSPSP02
B1817204	Error reading boot parameters	FSPSP02
B1817205	Boot code error	FSPSP02
B1817206	Unit check timer was reset	FSPSP02
B1817207	Error reading from NVRAM	FSPSP02
B1817208	Error writing to NVRAM	FSPSP02
B1817209	The service processor boot watchdog timer expired and forced the service processor to attempt a boot from the other firmware image in the service processor flash memory	FSPSP02
B181720A	Power-off reset occurred. FipsDump should be analyzed: Possible software problem	FSPSP02

(B3xx) Connection monitoring reference codes

These error codes indicate a problem in the connection monitoring between the Hardware Management Console and a partition that is running on the managed system. The HMC posts these error codes into the error log in Service Focal Point but does not report them to the operating systems running on the managed system.

Use the following links to display the appropriate B3xx reference code table:

- B301
- B302
- B303
- B31x

Table 1. (B301) Connection monitoring reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B3010001	Hardware Management Console (HMC) or partition connection monitoring fault	NEXTLVL
B3010002	HMC or partition connection monitoring fault Perform the following steps: 1. Verify the network between the HMC and the partition by pinging in both directions. Correct any problems that you detect. 2. Reboot the HMC.	PTNNTWK
B3010004	HMC or partition connection monitoring fault	NEXTLVL
B3010012, B3010013, B3010019, B3010020, B3010023, B3010025, B3010026	HMC or partition connection monitoring fault	NEXTLVL
B3010027	HMC or partition connection monitoring fault Before using the entry in the Failing Items column, do the following: 1. If you use short host names for the HMC and the partitions, ensure that you have correctly set up the short host names. For more information, see the instructions in "Using Network Adapters to Communicate with Partitions" in the <i>Hardware Management Console for pSeries® Installation and Operations Guide</i> . Correct any problems that you find, then verify that you can ping in both directions between the HMC and the partitions. 2. If you do not use short host names or if the previous step does not correct the problem, use the Failing Item column.	NEXTLVL
B3010029, B301002B, B301002C, B301002D	HMC or partition connection monitoring fault	NEXTLVL

Table 2. (B302) Connection monitoring reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B3020001	<p>Hardware Management Console (HMC) or partition connection monitoring fault</p> <p>Before using the entry in the Failing Items column, do the following:</p> <ol style="list-style-type: none"> 1. If you use short host names for the HMC and the partitions, ensure that you have correctly set up the short host names. For more information, see the instructions in "Using Network Adapters to Communicate with Partitions" in the <i>Hardware Management Console for pSeries Installation and Operations Guide</i>. Correct any problems that you find, then verify that you can ping in both directions between the HMC and the partitions. 2. If you do not use short host names or if the previous step does not correct the problem, use the Failing Item column. 	NEXTLVL

Table 3. (B303) Connection monitoring reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B3030001	<p>The communication link between the service processor and the Hardware Management Console (HMC) failed.</p> <p>Note: This error might be a temporary condition caused by either the HMC or the system that the HMC is connected, being shutdown, restarted, upgraded or other intermittent conditions. While attempts are made to only report these errors when a connection has been lost. It is important to follow the procedures in the symbolic FRU list to determine if there is still a connection problem and how to resolve the issue.</p>	FSPSP33 SPNETWK
B3030002	<p>A single partition HMC link failed.</p> <p>Note: This error might be a temporary condition caused by either the HMC or the system that the HMC is connected, being shutdown, restarted, upgraded or other intermittent conditions. While attempts are made to only report these errors when a connection has been lost. It is important to follow the procedures in the symbolic FRU list to determine if there is still a connection problem and how to resolve the issue.</p>	FSPSP33 PTNNTWK SPNETWK
B3030003	<p>Multiple partition HMC links failed.</p> <p>Note: This error might be a temporary condition caused by either the HMC or the system that the HMC is connected, being shutdown, restarted, upgraded or other intermittent conditions. While attempts are made to only report these errors when a connection has been lost. It is important to follow the procedures in the symbolic FRU list to determine if there is still a connection problem and how to resolve the issue.</p>	FSPSP33 PTNNTWK SPNETWK HMCMTWK
B3030004	<p>All partition links for a single system to HMC failed.</p> <p>Note: This error might be a temporary condition caused by either the HMC or the system that the HMC is connected, being shutdown, restarted, upgraded or other intermittent conditions. While attempts are made to only report these errors when a connection has been lost. It is important to follow the procedures in the symbolic FRU list to determine if there is still a connection problem and how to resolve the issue.</p>	FSPSP33 PTNNTWK SPNETWK
B3030005	<p>All system links from one system to a single HMC failed.</p> <p>Note: This error might be a temporary condition caused by either the HMC or the system that the HMC is connected, being shutdown, restarted, upgraded or other intermittent conditions. While attempts are made to only report these errors when a connection has been lost. It is important to follow the procedures in the symbolic FRU list to determine if there is still a connection problem and how to resolve the issue.</p>	FSPSP33 SPNETWK

Table 3. (B303) Connection monitoring reference codes (continued)

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B3030006	The links between a single HMC and a single managed system failed. Note: This error might be a temporary condition caused by either the HMC or the system that the HMC is connected, being shutdown, restarted, upgraded or other intermittent conditions. While attempts are made to only report these errors when a connection has been lost. It is important to follow the procedures in the symbolic FRU list to determine if there is still a connection problem and how to resolve the issue.	FSPSP33 SPNETWK
B3030007	A single HMC link to more than one managed system occurred. Note: This error might be a temporary condition caused by either the HMC or the system that the HMC is connected, being shutdown, restarted, upgraded or other intermittent conditions. While attempts are made to only report these errors when a connection has been lost. It is important to follow the procedures in the symbolic FRU list to determine if there is still a connection problem and how to resolve the issue.	FSPSP33 SPNETWK HMCNTWK
B3030008	One HMC link to another single HMC failed. Note: This error might be a temporary condition caused by either the HMC or the system that the HMC is connected, being shutdown, restarted, upgraded or other intermittent conditions. While attempts are made to only report these errors when a connection has been lost. It is important to follow the procedures in the symbolic FRU list to determine if there is still a connection problem and how to resolve the issue.	FSPSP33 HMCNTWK SPNETWK
B3030009	One HMC link to more than one HMC occurred. Note: This error might be a temporary condition caused by either the HMC or the system that the HMC is connected, being shutdown, restarted, upgraded or other intermittent conditions. While attempts are made to only report these errors when a connection has been lost. It is important to follow the procedures in the symbolic FRU list to determine if there is still a connection problem and how to resolve the issue.	FSPSP33 HMCMTWK SPNETWK
B303000A	The HMC lost links to all managed systems. Note: This error might be a temporary condition caused by either the HMC or the system that the HMC is connected, being shutdown, restarted, upgraded or other intermittent conditions. While attempts are made to only report these errors when a connection has been lost. It is important to follow the procedures in the symbolic FRU list to determine if there is still a connection problem and how to resolve the issue.	FSPSP33 SPNETWK
B303000B	Multiple HMCs lost links to a single managed system. Note: This error might be a temporary condition caused by either the HMC or the system that the HMC is connected, being shutdown, restarted, upgraded or other intermittent conditions. While attempts are made to only report these errors when a connection has been lost. It is important to follow the procedures in the symbolic FRU list to determine if there is still a connection problem and how to resolve the issue.	FSPSP33 SPNETWK HMCMTWK
B303000C	Multiple HMCs lost links to multiple managed systems. Note: This error might be a temporary condition caused by either the HMC or the system that the HMC is connected, being shutdown, restarted, upgraded or other intermittent conditions. While attempts are made to only report these errors when a connection has been lost. It is important to follow the procedures in the symbolic FRU list to determine if there is still a connection problem and how to resolve the issue.	FSPSP33 SPNETWK HMCMTWK

Table 3. (B303) Connection monitoring reference codes (continued)

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B303000D	Multiple HMCs lost links to multiple managed systems. Note: This error might be a temporary condition caused by either the HMC or the system that the HMC is connected, being shutdown, restarted, upgraded or other intermittent conditions. While attempts are made to only report these errors when a connection has been lost. It is important to follow the procedures in the symbolic FRU list to determine if there is still a connection problem and how to resolve the issue.	FSPSP33 SPNETWK HMCMTWK
B303000E	The Network Interface Card (NIC) failed Use the error codes offered in the HMC Focal Point to diagnose and repair the problem. For more information, see Using Service Focal Point. Note: This error might be a temporary condition caused by either the HMC or the system that the HMC is connected, being shutdown, restarted, upgraded or other intermittent conditions. While attempts are made to only report these errors when a connection has been lost. It is important to follow the procedures in the symbolic FRU list to determine if there is still a connection problem and how to resolve the issue.	SYSNTWK
B303000F	A single partition HMC link failure occurred on a redundant path. Note: This error might be a temporary condition caused by either the HMC or the system that the HMC is connected, being shutdown, restarted, upgraded or other intermittent conditions. While attempts are made to only report these errors when a connection has been lost. It is important to follow the procedures in the symbolic FRU list to determine if there is still a connection problem and how to resolve the issue.	FSPSP33 PTNNTWK SPNETWK
B3030010	A single HMC link to one HMC failure occurred on a redundant path. Note: This error might be a temporary condition caused by either the HMC or the system that the HMC is connected, being shutdown, restarted, upgraded or other intermittent conditions. While attempts are made to only report these errors when a connection has been lost. It is important to follow the procedures in the symbolic FRU list to determine if there is still a connection problem and how to resolve the issue.	
B3030011	Server firmware connection monitoring to the flexible service processor failed. Note: This error might be a temporary condition caused by either the HMC or the system that the HMC is connected, being shutdown, restarted, upgraded or other intermittent conditions. While attempts are made to only report these errors when a connection has been lost. It is important to follow the procedures in the symbolic FRU list to determine if there is still a connection problem and how to resolve the issue.	FSPSP33 SPNETWK
B3030012	Flexible service processor connection monitoring of server firmware failed. Note: This error might be a temporary condition caused by either the HMC or the system that the HMC is connected, being shutdown, restarted, upgraded or other intermittent conditions. While attempts are made to only report these errors when a connection has been lost. It is important to follow the procedures in the symbolic FRU list to determine if there is still a connection problem and how to resolve the issue.	FSPSP33 SPNETWK
B3030013	The communication path (mailbox) between server firmware and the flexible service processor failed. Note: This error might be a temporary condition caused by either the HMC or the system that the HMC is connected, being shutdown, restarted, upgraded or other intermittent conditions. While attempts are made to only report these errors when a connection has been lost. It is important to follow the procedures in the symbolic FRU list to determine if there is still a connection problem and how to resolve the issue.	FSPSP33 SPNETWK MAILBOX

Table 3. (B303) Connection monitoring reference codes (continued)

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B3031000	Customer reported a console problem when creating a serviceable event on the HMC user interface. Contact the customer for more information about the problem.	
B3031001	Customer reported a power problem when creating a serviceable event on the HMC user interface. Contact the customer for more information about the problem.	
B3031002	Customer reported a processor problem when creating a serviceable event on the HMC user interface. Contact the customer for more information about the problem.	
B3031003	Customer reported a LAN problem when creating a serviceable event on the HMC user interface. Contact the customer for more information about the problem.	
B3031004	Customer reported a software problem when creating a serviceable event on the HMC user interface. Contact the customer for more information about the problem.	
B3031005	Customer reported a input/output (I/O) problem when creating a serviceable event on the HMC user interface. Contact the customer for more information about the problem.	
B3031006	Customer reported a problem when creating a serviceable event on the HMC user interface. Contact the customer for more information about the problem.	
B3031007	Customer tested problem reporting by creating a serviceable event on the HMC user interface. Contact the customer for more information about the problem.	
B3031100	Customer reported a problem when creating a serviceable event on the HMC user interface. Contact the customer for more information about the problem.	
B3031101	Customer reported a power problem when creating a serviceable event on the HMC user interface. Contact the customer for more information about the problem.	
B3031102	Customer reported a processor problem when creating a serviceable event on the HMC user interface. Contact the customer for more information about the problem.	
B3031103	Customer reported a LAN problem when creating a serviceable event on the HMC user interface. Contact the customer for more information about the problem.	
B3031104	Customer reported a software problem when creating a serviceable event on the HMC user interface. Contact the customer for more information about the problem.	

B3xx

Table 3. (B303) Connection monitoring reference codes (continued)

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B3031105	Customer reported a input/output (I/O) problem when creating a serviceable event on the HMC user interface. Contact the customer for more information about the problem.	
B3031106	Customer reported a problem when creating a serviceable event on the HMC user interface. Contact the customer for more information about the problem.	
B3031107	Customer tested problem reporting by creating a serviceable event on the HMC user interface. Contact the customer for more information about the problem.	
B3036600	The HMC failed to retrieve a dump from a managed system. If you have a redundant HMC environment, a peer HMC might have retrieved the dump. This might be a temporary problem. After receiving this error, perform the following steps: <ol style="list-style-type: none"> 1. Ensure that there is connectivity between this HMC and managed System reported. 2. Use the manage dumps utility to determine if dumps have been received from the managed system. 3. If there is a peer HMC managing the same system, also check that HMC. Managed System Dumps can be retrieved by any HMC connected to the system. If there is a current dump from the managed system reported in the error, than the available dump has been retrieved. 	
B3036601	The HMC failed to retrieve a platform system dump from the managed system. If you have a redundant HMC environment, a peer HMC might have retrieved the dump. This might be a temporary problem. After receiving this error, perform the following steps: <ol style="list-style-type: none"> 1. Use the manage dumps utility to determine if a dump of that type has been received from the managed system. 2. If you have a peer HMC managing the same system, also check that HMC. Managed System Dumps can be retrieved by any HMC connected to the system. If there is a current dump of the type that failed from the managed system reported in the error, than the available dump of that type has been retrieved. 	
B3036602	The HMC failed to retrieve a dump from the service processor. If you have a redundant HMC environment, a peer HMC might have retrieved the dump. This might be a temporary problem. This might be a temporary problem. After receiving this error, perform the following steps: <ol style="list-style-type: none"> 1. Use the manage dumps utility to determine if a dump of that type has been received from the managed system. 2. If you have a peer HMC managing the same system, also check that HMC. Managed System Dumps can be retrieved by any HMC connected to the system. If there is a current dump of the type that failed from the managed system reported in the error, than the available dump of that type has been retrieved. 	

Table 3. (B303) Connection monitoring reference codes (continued)

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B3036604	<p>The HMC failed to retrieve a power subsystem dump from the managed system. If you have a redundant HMC environment, a peer HMC might have retrieved the dump. This might be a temporary problem.</p> <p>After receiving this error, perform the following steps:</p> <ol style="list-style-type: none"> 1. Use the manage dumps utility to determine if a dump of that type has been received from the managed system. 2. If you have a peer HMC managing the same system, also check that HMC. Managed System Dumps can be retrieved by any HMC connected to the system. If there is a current dump of the type that failed from the managed system reported in the error, than the available dump of that type has been retrieved. 	
B3036620	<p>Primary HMC arbitration failure for domain {0} with peers {1}. Note: Domain indicates which domain the managed system belongs to. Peers indicate what HMC are also connected to the service processor.</p> <p>This error code indicates that this HMC did receive primary information from a peer HMC. To resolve this issue ensure that there is connectivity to the FSP and the other HMC connected to the managed system.</p>	
B3036625	<p>Primary HMC arbitration failure for domain {0} with peers {1}. Note: Domain indicates which domain the managed system belongs to. Peers indicate what HMC are also connected to the service processor.</p> <p>This error code indicates that this HMC could not communicate with the service processor to either set itself as a primary or to determine if other HMCs are connected. To resolve this issue ensure that there is connectivity to the service processor and the other HMC connected to the managed system.</p>	

Table 4. (B31x) Connection monitoring reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B3100500, B3112420	<p>Ethernet network failure</p> <p>Do the following:</p> <ol style="list-style-type: none"> 1. Reseat your Ethernet card. 2. Check your Ethernet cable connections. 3. If the previous actions do not resolve the problem, contact your next level of support. 	NEXTLVL

(BAxx) Partition firmware reference (error) codes

The partition firmware detected a failure. The first eight characters in the display represent the SRC. Any additional characters represent the associated location code. Record the location code as well as the reference code, then find the SRC in the following table.

Table 1. (BAxx) Partition firmware reference (error) codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
BA000010	The device data structure is corrupted	FWFLASH
BA000020	<p>Incompatible firmware levels were found</p> <p>Reflash the platform firmware.</p>	

BAxx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
BA000030	An lpevent communication failure occurred	FWFLASH
BA000032	The firmware failed to register the lpevent queues	FWFLASH
BA000034	The firmware failed to exchange capacity and allocate lpevents	FWFLASH
BA000038	The firmware failed to exchange virtual continuation events	FWFLASH
BA000040	The firmware was unable to obtain the RTAS code lid details	FWFLASH
BA000050	The firmware was unable to load the RTAS code lid	FWFLASH
BA000060	The firmware was unable to obtain the open firmware code lid details	FWFLASH
BA000070	The firmware was unable to load the open firmware code lid	FWFLASH
BA000080	The user did not accept the license agreement There is no further action required. If the user did not accept the license agreement, the system will not function.	
BA000081	Failed to get the firmware license policy	FWFLASH
BA000082	Failed to set the firmware license policy	FWFLASH
BA010000	There is insufficient information to boot the partition	FWIPIPL
BA010001	The client IP address is already in use by another network device	FWIPIPL
BA010002	Cannot get gateway IP address If the system is a model 185 or A50, refer to partition firmware progress code E174. For all other systems, refer to partition firmware progress code CA00E174.	FWHOST
BA010003	Cannot get server hardware address If the system is a model 185 or A50, refer to partition firmware progress code E174. For all other systems, refer to partition firmware progress code CA00E174.	FWHOST
BA010004	Bootp failed	
BA010005	File transmission (TFTP) failed Refer to partition firmware progress code CA00E174	FWHOST FWADIPL
BA010006	The boot image is too large	FWADIPL
BA020001	Partition firmware password entry error Reenter the password.	
BA020009	Invalid password entered - system locked A password was entered incorrectly three times. Deactivate the partition using the HMC, then reactivate it. When asked for the password, enter the correct password.	
BA030011	RTAS attempt to allocate memory failed	FWFWPBL
BA04000F	Self test failed on device; no error or location code information available If there was a location code reported with the error, replace the device specified by the location code.	NEXTLVL
BA040010	Self test failed on device; cannot locate package	NEXTLVL
BA040020	The machine type and model are not recognized by the server firmware Check for server firmware updates, and apply them, if available.	NEXTLVL

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
BA040030	The firmware was not able to build the UID properly for this system. As a result, problems may occur with the licensing of the AIX operating system. 1. Using the Advanced System Management Interface (ASMI) menus, ensure that the machine type, model, and serial number in the VPD for this system are correct. 2. If this is a new system, check for server firmware updates and apply them, if available.	
BA040035	The firmware was unable to find the "plant of manufacture" in the VPD. This may cause problems with the licensing of the AIX operating system. Verify the that machine type, model, and serial number are correct for this system. If this is a new system, check for server firmware updates and apply them, if available.	
BA040040	Setting the machine type, model, and serial number failed.	FWFWPBL
BA040050	The h-call to switch off the boot watchdog timer failed.	FWFWPBL
BA040060	Setting the firmware boot side for the next boot failed.	FWFWPBL
BA050001	Rebooting a partition in logical partition mode failed.	FWFWPBL
BA050004	Locating a service processor device tree node failed.	FWFWPBL
BA05000A	Failed to send boot failed message to the service processor	FWFWPBL
BA060003	IP parameter requires 3 period (.) characters Enter a valid IP parameter. Example: 000.000.000.000	
BA060004	Invalid IP parameter Enter a valid IP parameter. Example: 000.000.000.000	
BA060005	Invalid IP parameter (>255) Enter a valid IP parameter. Example: 000.000.000.000	
BA060007	A keyboard was not found 1. Make sure that a keyboard is attached to the USB port that is assigned to the partition. 2. Replace the USB card to which the keyboard is attached.	
BA060008	No configurable adapters found by the remote IPL menu in the System Management Services (SMS) utilities This error occurs when the remote IPL menu in the SMS utilities cannot locate any LAN adapters that are supported by the remote IPL function.	FWRIPL
BA06000B	The system was not able to find an operating system on the devices in the boot list. See Problems with loading and starting the operating system (AIX and Linux)	
BA06000C	A pointer to the operating system was found in non-volatile storage.	FWPTR
BA060020	The boot-device environment variable exceeded the allowed character limit.	FWNIM
BA060021	The boot-device environment variable contained more than five entries.	FWNIM
BA060022	The boot-device environment variable contained an entry that exceeded 255 characters in length	FWNIM

BAxx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
BA060030	Logical partitioning with shared processors is enabled and the operating system does not support it. <ol style="list-style-type: none"> 1. Install or boot a level of the operating system that supports shared processors. 2. Disable logical partitioning with shared processors in the operating system. 	
BA060040	The system or partition is configured to use huge pages, but the operating system image does not support huge pages. Do one of the following: <ul style="list-style-type: none"> • Install a newer version of the operating system that supports huge pages. • Use the ASMI to remove the huge pages. 	
BA060050	The Hypervisor supports dynamic partitioning of the huge page-type of memory allocation, but dynamic partitioning of huge pages is not supported. Use the ASMI to disable dynamic partitioning of huge pages.	
BA060060	The operating system expects an IOSP partition, but the operating system failed to make the transition to alpha mode. <ol style="list-style-type: none"> 1. Ensure that the alpha-mode operating system image is intended for this partition. 2. Ensure that the configuration of the partition supports an alpha-mode operating system. 	
BA060061	The operating system expects a non-IOSP partition, but the operating system failed to make the transition to MGC mode. <ol style="list-style-type: none"> 1. Ensure that the nonalpha-mode operating system image is intended for this partition. 2. Ensure that the configuration of the partition supports a nonalpha-mode operating system. 	
BA07xxxx	SCSI controller failure	FWSCSI1
BA080001	An IDE device remained busy for a longer period than the time out period	FWFWPBL
BA080002	The IDE controller senses IDE devices but with errors. <ul style="list-style-type: none"> • Verify that the IDE devices are properly seated and cabled correctly • Replace the IDE controller (model-dependent) 	
BA080010	An IDE device is busy longer than specified time-out period. Retry the operation.	FWIDE1
BA080011	An IDE command timed out; command is exceeding the period allowed to complete. Retry the operation.	FWIDE1
BA080012	The ATA command failed	FWIDE2
BA080013	The media is not present in the tray Retry the operation.	FWIDE1
BA080014	The media has been changed Retry the operation.	FWIDE1

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
BA080015	The packet command failed; the media might not be readable. Retry the operation.	FWIDE1
BA09xxxx	SCSI controller failure. This checkpoint might remain in the control panel for up to 15 minutes. If the checkpoint persists longer than 15 minutes, do the following: 1. Power off the server and reboot from the permanent side. Reject the firmware image on the temporary side. 2. If the problem persists, before replacing any components, refer to the actions for BA090001.	
BA090001	SCSI disk unit: test unit ready failed; hardware error	FWSCSI1
BA090002	SCSI disk unit: test unit ready failed; sense data available	FWSCSI2
BA090003	SCSI disk unit: send diagnostic failed; sense data available	FWSCSI3
BA090004	SCSI disk unit: send diagnostic failed: devofl command	FWSCSI3
BA100001	SCSI tape: test unit ready failed; hardware error	FWSCSI1
BA100002	SCSI tape: test unit ready failed; sense data available	FWSCSI4
BA100003	SCSI tape: send diagnostic failed; sense data available	FWSCSI3
BA100004	SCSI tape: send diagnostic failed: devofl command	FWSCSI3
BA110001	SCSI changer: test unit ready failed; hardware error	FWSCSI1
BA110002	SCSI changer: test unit ready failed; sense data available	FWSCSI4
BA110003	SCSI changer: send diagnostic failed; sense data available	FWSCSI3
BA110004	SCSI changer: send diagnostic failed: devofl command	FWSCSI3
BA120001	On an undetermined SCSI device, test unit ready failed; hardware error	FWSCSI5
BA120002	On an undetermined SCSI device, test unit ready failed; sense data available	FWSCSI4
BA120003	On an undetermined SCSI device, send diagnostic failed; sense data available	FWSCSI4
BA120004	On an undetermined SCSI device, send diagnostic failed; devofl command	FWSCSI4
BA130001	SCSI CD-ROM: test unit ready failed; hardware error	FWSCSI1
BA130002	SCSI CD-ROM: test unit ready failed; sense data available	FWSCSI3
BA130003	SCSI CD-ROM: send diagnostic failed; sense data available	FWSCSI3
BA130004	SCSI CD-ROM: send diagnostic failed: devofl command	FWSCSI3
BA130010	USB CD-ROM: device remained busy longer than the time-out period Retry the operation.	FWFWPBL
BA130011	USB CD-ROM: execution of ATA/ATAPI command was not completed within the allowed time. Retry the operation.	FWCD1
BA130012	USB CD-ROM: execution of ATA/ATAPI command failed. 1. Verify that the power and signal cables going to the USB CD-ROM are properly connected and are not damaged. If any problems are found, correct them, then retry the operation. 2. If the problem persists, the CD in the USB CD-ROM drive might not be readable. Remove the CD and insert another CD.	NEXTLVL


BAxx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
BA130013	USB CD-ROM: bootable media is missing from the drive Insert a bootable CD-ROM in the USB CD-ROM drive, then retry the operation.	FWCD1
BA130014	USB CD-ROM: the media in the USB CD-ROM drive has been changed. Retry the operation.	FWCD2
BA130015	USB CD-ROM: ATA/ATAPI packet command execution failed. If the problem persists, the CD in the USB CD-ROM drive might not be readable. Remove the CD and insert another CD.	FWCD2
BA131010	The USB keyboard was removed. 1. Plug in the USB keyboard and reboot the partition. 2. Check for system firmware updates and apply them, if available.	
BA140001	SCSI read/write optical: test unit ready failed; hardware error	FWSCSI1
BA140002	SCSI read/write optical: test unit ready failed; sense data available	FWSCSI1
BA140003	SCSI read/write optical: send diagnostic failed; sense data available	FWSCSI3
BA140004	SCSI read/write optical: send diagnostic failed; devofl command	FWSCSI3
BA150001	PCI Ethernet BNC/RJ-45 or PCI Ethernet AUI/RJ-45 adapter: internal wrap test failure Replace the adapter specified by the location code.	
BA151001	10/100 MBPS Ethernet PCI adapter: internal wrap test failure Replace the adapter specified by the location code.	
BA151002	10/100 MBPS Ethernet card	FWENET
BA153002	Gigabit Ethernet adapter failure Verify that the MAC address programmed in the FLASH/EEPROM is correct.	
BA153003	Gigabit Ethernet adapter failure 1. Check for adapter firmware updates; apply if available. 2. Remove other cards from the PHB in which the gigabit Ethernet adapter is plugged and retry the operation. If the operation is successful, plug the cards in again, one at a time, until the failing card is isolated. After you identify the failing card, replace it. 3. Replace the adapter.	
BA160001	PCI auto LANstreamer™ token ring adapter: failed to complete hardware initialization. Replace the adapter specified by the location code.	
BA161001	PCI token ring adapter: failed to complete hardware initialization. Replace the adapter specified by the location code.	
BA170xxx	NVRAM problems	FWNVR1
BA170000	NVRAMRC initialization failed; device test failed	FWNVR2
BA170100	NVRAM data validation check failed Turn off, then turn on the system.	FWNVR2
BA170201	The firmware was unable to expand target partition - saving configuration variable	FWNVR1

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
BA170202	The firmware was unable to expand target partition - writing error log entry	FWNVR1
BA170203	The firmware was unable to expand target partition - writing VPD data	FWNVR1
BA170210	Setenv/\$Setenv parameter error - name contains a null character	FWNVR1
BA170211	Setenv/\$Setenv parameter error - value contains a null character	FWNVR1
BA170220	The firmware was not able to write a variable value into NVRAM because not enough space exists in NVRAM. Do the following: 1. Reduce the number of partitions, if possible, so that each of the remaining partitions has more NVRMA allocated to it. 2. Contact your next level of support.	
BA170221	The setenv/\$setenv function had to delete network boot information to free space in NVRAM. You might need to use the SMS menus to reenter the parameters for network installation or boot.	
BA170998	NVRAMRC script evaluation error - command line execution error.	FWNVR3
BA170999	NVRAMRC script evaluation error - stack unbalanced on completion. This is a firmware debug environment error. There is no user action or FRU replacement for this error.	NEXTLVL
BA180008	PCI device Fcode evaluation error.	FWPCI1
BA180009	The Fcode on a PCI adapter left a data stack imbalance You should load the new adapter Fcode before you use the adapter (specified by the location code associated with this error) for booting.	FWPCI1
BA180010	PCI probe error, bridge in freeze state	FWPCI2
BA180011	PCI bridge probe error, bridge is not usable	FWPCI3
BA180012	PCI device runtime error, bridge in freeze state	FWPCI3
BA180013	A PCI adapter was found that this machine type and model does not support. Is the system an IBM® Intellistation model? <ul style="list-style-type: none">• Yes: Complete the following steps.<ol style="list-style-type: none">1. Check for and apply any available server firmware updates.2. Replace the adapter at the location code that was reported with the error.• No: Remove the PCI adapter specified by the location code.	
BA180014	MSI software error	FWFLASH
BA180100	FDDI adapter Fcode driver is not supported on this system. This server does not support the Fcode driver of this adapter. Service support might have additional information.	
BA180101	Stack underflow from fibre-channel adapter	FWFWPBL
BA188000	An unsupported adapter was found in a PCI slot Remove the unsupported adapter in the slot identified by the location code.	

BAxx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
BA188001	EEH recovered a failing I/O adapter This is an informational code only, and no action is required. Since it is informational, no location code will be reported.	
BA188002	EEH could not recover the failed I/O adapter Replace the adapter in the slot identified by the location code.	
BA190001	Firmware function to get/set time-of-day reported an error	FWFWPBL
BA191001	The server firmware function to turn on the speaker reported an error	FWFWPBL
BA201001	The serial interface dropped data packets	FWFWPBL
BA201002	The serial interface failed to open Note: Check console settings to ensure the console is defined to the correct port. Ensure the console cables are connected to the port that is defined as the console.	FWFWPBL
BA201003	The firmware failed to handshake properly with the serial interface	FWFWPBL
BA210000	Partition firmware reports a default catch	FWFWPBL
BA210001	Partition firmware reports a stack underflow was caught	FWFWPBL
BA210002	Partition firmware was ready before standout was ready	FWFWPBL
BA210010	The transfer of control to the SLIC loader failed	FWFWPBL
BA210020	The I/O configuration exceeds the maximum size allowed by partition firmware. Increase the logical memory block size to 256 megabytes (MB) and reboot the managed system. Note: If the logical memory block size is already 256 MB, contact your next level of support.	
BA210100	The partition firmware was unable to log an error with the server firmware. No reply was received from the server firmware to an error log that was sent previously	NEXTLVL
BA210101	The partition firmware error log queue is full	NEXTLVL
BA250010	dlpar error in open firmware	FWLPAR
BA250020	dlpar error in open firmware due to an invalid dlpar entity. This error may have been caused by an errant or hung operating system process. 1. Check for operating system updates that resolve problems with dynamic logical partitioning (dlpar) and apply them, if available. 2. Check for server firmware updates and apply them, if available.	
BA250030	A hotplug operation in dynamic logical partitioning (dlpar) was terminated for concurrent firmware update. Retry the hotplug operation after the concurrent firmware update is complete.	
BA250040	The firmware was unable to generate a device tree node After you perform the FRU indicated in the Failing Items column, check for operating system updates and apply them, if available.	FWFLASH
BA278001	Failed to flash firmware: invalid image file Obtain a valid firmware update (flash) image for this system.	
BA278002	Flash file is not designed for this eServer™ platform Obtain a valid firmware update (flash) image for this system.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
BA278003	Unable to lock the firmware update lid manager <ol style="list-style-type: none"> 1. Reboot the system. 2. Make sure that the operating system is authorized to update the firmware. If the system is running multiple partitions, verify that this partition has service authority. 	
BA278004	An invalid firmware update lid was requested Obtain a valid firmware update (flash) image for this system.	
BA278005	Failed to flash a firmware update lid Obtain a valid firmware update (flash) image for this system.	
BA278006	Unable to unlock the firmware update lid manager Reboot the system.	
BA278007	Failed to reboot the system after a firmware flash update Reboot the system.	
BA278008	A server firmware update was attempted from the operating system. You must perform the update by using the Hardware Management Console (HMC). Perform the server firmware update by using the HMC.	
BA278009	The server firmware update management tools for the version of Linux that you are running are incompatible with this system. Go to Service and productivity tools for Linux on POWER™  and download the latest service aids and productivity tools for the version of Linux that you are running.	
BA280000	RTAS discovered an invalid operation that may cause a hardware error	NEXTLVL
BA290000	RTAS discovered an internal stack overflow	FWFWPBL
BA300010	The partition exceeded the maximum number of logical memory blocks allowed under the new memory allocation scheme. Reduce the total logical memory block limit in the partition profile, then reactivate the partition. Note: The maximum number of logical memory blocks per partition is 128 kilobytes (K) under the new memory allocation scheme.	
BA300020	Function call to isolate a logical memory block failed under the standard memory allocation scheme. Do the following: <ol style="list-style-type: none"> 1. Upgrade the firmware of the managed system to the latest level, if a newer level is available. 2. Upgrade the operating system to a level that supports the new memory representation, or edit the profile to have fewer logical memory blocks than the 8K maximum. 3. Reboot the partition. 	

BAxx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
BA300030	Function call to make a logical memory block unusable failed under the standard memory allocation scheme. Do the following: 1. Upgrade the firmware of the managed system to the latest level, if a newer level is available. 2. Upgrade the operating system to a level that supports the new memory representation, or edit the profile to have fewer logical memory blocks than the 8K maximum. 3. Reboot the partition.	
BA300040	The partition, which is running the traditional memory representation, exceeded the limit of 8192 logical memory blocks allowed by the standard memory allocation scheme. Do the following: 1. Upgrade the operating system to one that supports the new memory representation, or edit the profile to have fewer than 8192 logical memory blocks. 2. Reboot the partition.	
BA310010	The firmware could not obtain the SRC history	FWFLASH
BA310020	The firmware received an invalid SRC history	FWFLASH
BA310030	The firmware operation to write the MAC address to vital product data (VPD) failed	FWFLASH

(BBxx) High performance switch reference codes

The high performance switch detected a failure. Record the location code as well as the reference code, then find the SRC in the High Performance Switch Planning, Installation, and Service for IBM eServer p5 servers manual.

(BF67) Linux reference codes

The Linux operating system detected a failure in the emulex driver.

The first five characters (BFxxx) of these SRCs indicate the driver or subsystem responsible for the error, and the last three characters specifies the error condition. The last three characters of the SRCs are arranged such that 1xx is lowest severity and Fxx is highest severity. For example:

Use the following table to locate the last four characters of the (BF67) Linux SRC that you want to find, then perform the suggested actions.

Note: If the suggested action in the Description/Action column does not work (or if that column does not contain a suggested action), use the action specified in the Failing Item column.

Table 1. (BF67) Linux reference codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
7800	An ELS IOCB command was posted to a ring and did not complete within ULP timeout seconds. If no ELS command is going through the adapter, reboot the system.	NEXTLVL

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
7801	The driver attempted to issue READ_SPARAM mailbox command to the HBA but there were no buffer available. This message indicates one of the following conditions: <ul style="list-style-type: none"> • A possible lack of memory resources. Try increasing the <i>lpfc num_bufs</i> configuration parameter to allocate more buffers • A possible driver buffer management problem 	NEXTLVL
7802	The driver attempted to issue REG_LOGIN mailbox command to the HBA but there were no buffer available. This message indicates one of the following conditions: <ul style="list-style-type: none"> • A possible lack of memory resources. Try increasing the <i>lpfc num_bufs</i> configuration parameter to allocate more buffers • A possible driver buffer management problem 	NEXTLVL
7803	This message indicates one of the following conditions: <ul style="list-style-type: none"> • Port rsp ring put index is greater than the size of rsp ring • Port cmd ring get index is greater than the size of cmd ring • Port cmd ring get index is greater than the size of cmd ring • The assigned I/O iotag is greater than the max allowed • The assigned I/O iotag is greater than the max allowed This error might indicate a software driver, firmware or hardware problem.	NEXTLVL
7804	The Rctl/Type of a received frame did not match any for the configured masks for the specified ring. <p>This error might indicate a software driver or firmware problem.</p>	NEXTLVL
7805	Received an unknown IOCB command completion. <p>This error might indicate a software driver or firmware problem.</p>	NEXTLVL
7806	The driver was unable to find a matching command for the completion received on the specified ring. <p>This error might indicate a software driver or firmware problem.</p>	NEXTLVL
7807	A unknown mailbox command completed. <p>This error might indicate a software driver, firmware or hardware problem.</p>	NEXTLVL
7808	The configuration parameter for scan-down is out of range. <p>Software driver error.</p>	NEXTLVL
7809	The driver attempted to register the HBA interrupt service routine with the host operating system but failed. <p>This error might indicate a hardware or driver problem.</p>	NEXTLVL
780A	The driver manages its own memory for internal usage. This error indicates a problem occurred in the driver memory management routines. This error might also indicate the host system is low on memory resources. <p>This error might indicate a driver or host operating system problem.</p>	NEXTLVL

BF67

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
780B	<p>This message indicates one of the following conditions:</p> <ul style="list-style-type: none"> • ASCII string to hex conversion failed. Input byte count less than 1 • ASCII string to hex conversion failed. Input byte count greater than the max <num> • ASCII string to hex conversion failed. The output buffer byte size is less than one-half of the input byte count. Every two input chars (bytes) require one output byte <p>This error might indicate a software driver problem.</p>	NEXTLVL
7A00	<p>The driver decided to drop an ELS Response ring entry.</p> <p>This error might indicate a software driver or firmware problem.</p>	NEXTLVL
7A01	<p>Received a mailbox completion interrupt and there are no outstanding mailbox commands.</p> <p>This error might indicate a hardware or firmware problem. Update firmware.</p>	NEXTLVL
7A02	<p>The driver issued a CONFIG_LINK mbox command to the HBA that failed.</p> <p>This error might indicate a firmware or hardware problem.</p> <p>Update firmware or replace adapter.</p>	NEXTLVL
7A03	<p>The driver issued a READ_SPARAM mbox command to the HBA that failed.</p> <p>This error might indicate a firmware or hardware problem.</p>	NEXTLVL
7A04	<p>The driver issued a CLEAR_LA mbox command to the HBA that failed.</p> <p>This error might indicate a firmware or hardware problem.</p>	NEXTLVL
7A05	<p>A read nvparams mailbox command failed during config port.</p> <p>This error might indicate a hardware or firmware problem.</p>	NEXTLVL
7A06	<p>The driver cannot find the specified buffer in its mapping table.</p> <p>This error might indicate a software driver or firmware problem.</p>	NEXTLVL
7A07	<p>The adapter failed during power-up diagnostics after it was reset.</p> <p>This error might indicate a hardware or firmware problem.</p>	NEXTLVL
7A08	<p>The adapter failed during power-up diagnostics after it was reset.</p> <p>This error might indicate a hardware or firmware problem.</p>	NEXTLVL
7A09	<p>Adapter initialization failed when issuing READ_REV mailbox command.</p> <p>This error might indicate a hardware or firmware problem.</p>	NEXTLVL
7A0A	<p>Outdated firmware was detected during initialization.</p> <p>This error might indicate a hardware or firmware problem.</p> <p>Update firmware.</p>	NEXTLVL
7A0B	<p>Adapter initialization failed when issuing DUMP_VPD mailbox command.</p> <p>This error might indicate a hardware or firmware problem.</p>	NEXTLVL

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
7A0C	Adapter initialization failed when issuing CONFIG_PORT mailbox command. This error might indicate a hardware or firmware problem.	NEXTLVL
7A0D	Adapter initialization failed when issuing CFG_RING mailbox command. This error might indicate a hardware or firmware problem.	NEXTLVL
7A0E	Adapter initialization failed when issuing CONFIG_LINK mailbox command. This error might indicate a hardware or firmware problem.	NEXTLVL
7A0F	Adapter initialization failed when issuing READ_SPARM mailbox command. This error might indicate a hardware or firmware problem.	NEXTLVL
7A10	Adapter initialization failed when issuing READ_CONFIG mailbox command. This error might indicate a hardware or firmware problem.	NEXTLVL
7A11	Adapter initialization failed when issuing INIT_LINK mailbox command. This error might indicate a hardware or firmware problem.	NEXTLVL
7A12	The driver received an interrupt indicting a possible hardware problem. This error might indicate a hardware or firmware problem.	NEXTLVL

(BF75) Linux reference codes

The Linux operating system detected a failure in the ipr driver.

The first five characters (BFxxx) of these SRCs indicate the driver or subsystem responsible for the error, and the last three characters specifies the error condition. The last three characters of the SRCs are arranged such that 1xx is lowest severity and Fxx is highest severity. For example:

- Errors that require you to check cables occur in the 5xx range
- Errors that require you to perform a microcode update occur in the Axx range
- Errors that require you to replace an adapter occur in the Fxx range



Use the following table to locate the last four characters of the (BF75) Linux SRC that you want to find, then perform the suggested actions.






Note: If the suggested action in the Description/ Action column does not work (or if that column does not contain a suggested action), use the action specified in the Failing Item column.

Table 1. (BF75) Linux reference codes



Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1800	8155: An unknown error was received. Have the customer update the device driver.	NEXTLVL
1A00	Firmware file %s not found. Have the customer update the adapter microcode.	NEXTLVL

BF75

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1A01	Invalid microcode buffer. Have the customer update the adapter microcode.	NEXTLVL
1A02	Microcode buffer allocation failed. Have the customer update the adapter microcode.	NEXTLVL
1A03	Microcode buffer copy to DMA buffer failed. Have the customer update the adapter microcode.	NEXTLVL
1A04	Microcode download required. Have the customer update the adapter microcode.	NEXTLVL
1A05	Failed to map microcode download buffer. Have the customer update the adapter microcode.	NEXTLVL
1A06	8151: IOA microcode error. Have the customer update the adapter microcode and the device driver.	NEXTLVL
1C00	Adapter being reset due to command timeout. Have the customer update the adapter microcode.	IOADPTR
1C01	Invalid resource address. Have the customer update the device driver.	IOADPTR
1D00	7001: IOA sector reassignment successful. Media error.	IO_DEV
1D01	Unsolicited device bus message received.	IO_DEV
1D02	Device hardware error.	IO_DEV
1D03	Predictive failure analysis.	IO_DEV
1D04	Device error. May occur normally during concurrent maintenance.	IO_DEV
1D05	Out of alternate sectors for disk storage.	IO_DEV
1D06	9031: Array protection temporarily suspended, protection resuming. Hardware configuration error. Perform MAP 3310 in the PCI-X SCSI RAID Controller Reference Guide for Linux. 	NEXTLVL
1D07	This message indicates one of the following conditions: <ul style="list-style-type: none"> • Array protection temporarily suspended • IOA detected device error • Cache data belongs to devices other than those attached • Maximum number of arrays already exist • Incorrect hardware configuration change has been detected Perform MAP 3390 in the PCI-X SCSI RAID Controller Reference Guide for Linux. 	NEXTLVL

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1D08	IOA detected a SCSI bus configuration error. Device bus error, message or command phase. Perform MAP 3350 in the PCI-X SCSI RAID Controller Reference Guide for Linux. 	NEXTLVL
1D09	IOA cache data exists for a missing or failed device. Perform MAP 3332 in the PCI-X SCSI RAID Controller Reference Guide for Linux. 	NEXTLVL
1D0A	Disk unit has been modified after the last known status. Incorrect hardware configuration change has been detected. Perform MAP 3333 in the PCI-X SCSI RAID Controller Reference Guide for Linux. 	NEXTLVL
1D0B	A permanent cache battery pack failure occurred. Perform MAP 3300 in the PCI-X SCSI RAID Controller Reference Guide for Linux. 	NEXTLVL
1D0C	Cache data associated with attached devices cannot be found. Perform MAP 3320 in the PCI-X SCSI RAID Controller Reference Guide for Linux. 	NEXTLVL
1D0D	Array missing two or more devices with only one device present. Perform MAP 3311 in the PCI-X SCSI RAID Controller Reference Guide for Linux. 	NEXTLVL
1D0E	One or more array members not at required physical locations. Perform MAP 3312 in the PCI-X SCSI RAID Controller Reference Guide for Linux. 	NEXTLVL
1D0F	Array is missing a device and parity is out of sync. Perform MAP 3313 in the PCI-X SCSI RAID Controller Reference Guide for Linux. 	NEXTLVL
1D10	Required cache data cannot be located for a disk unit. Perform MAP 3331 in the PCI-X SCSI RAID Controller Reference Guide for Linux. 	NEXTLVL

BF75

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1D11	IOA resources not available due to previous problems. Perform MAP 3321 in the PCI-X SCSI RAID Controller Reference Guide for Linux. 	NEXTLVL
1D12	Disk unit requires initialization before use. Perform MAP 3334 in the PCI-X SCSI RAID Controller Reference Guide for Linux. 	NEXTLVL
1F00	Permanent IOA failure.	IOADPTR
1F01	Invalid response handle from IOA.	IOADPTR
1F02	IOA unit check with no data.	IOADPTR
1F03	IOA taken offline - error recovery failed.	IOADPTR
1F04	Adapter not supported in this hardware configuration. Remove the unsupported adapter from the system.	IOADPTR
1F05	Failed to set PCI DMA mask.	IOADPTR
1F06	Write of cache line size failed.	IOADPTR
1F07	Failed to save PCI configuration space.	IOADPTR
1F08	PCI bus error.	IOADPTR
1F08	Soft PCI bus error.	IOADPTR
1F09	Adapter hardware error.	IOADPTR

(BF77) Linux reference codes

The Linux operating system detected a failure in a driver or subsystem.

The first five characters (BFyyy) of these SRCs indicate the driver or subsystem responsible for the error:

- BF77 0xxx specifies the olympic driver
- BF77 5xxx specifies the pcnet32 driver
- BF77 6xxx specifies the bcm 5700 driver
- BF77 7xxx specifies the e100 driver
- BF77 8xxx specifies the e1000 driver

The last three characters specify the error condition. The last three characters of the SRCs are arranged such that 1xx is lowest severity and Fxx is highest severity. For example:

- Errors that require you to check cables occur in the 5xx range
- Errors that require you to perform a microcode update occur in the Axx range
- Errors that require you to replace an adapter occur in the Fxx range

Use the following table to locate the last four characters of the (BF77) Linux SRC that you want to find, then perform the suggested actions:

- Table 1. (BF77 0xxx) Linux reference codes (olympic driver)
- Table 2. (BF77 5xxx) Linux reference codes (pcnet32 driver)
- Table 3. (BF77 6xxx) Linux reference codes (bcm 5700 driver)

- Table 4. (BF77 7xxx) Linux reference codes (e100 driver)
- Table 5. (BF77 8xxx) Linux reference codes (e1000 driver)

Note: If the suggested action in the Description/Action column in any of the following tables does not work (or if that column does not contain a suggested action), use the action specified in the Failing Item column.

Table 1. (BF77 0xxx) Linux reference codes (olympic driver)

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0A00	Unrecognized command code or unrecognized buffer address. Have the customer do the following: <ol style="list-style-type: none"> 1. Reload the driver and reset the device to recover lost buffers 2. Upgrade the driver 	NEXTLVL
0F01	The olympic driver was unable to initialize the token ring card. Corrective action may be possible depending upon the error code.	IOADPTR
0F02	The Cardbus token ring adapter did not respond to initialization commands. Ensure that Cardbus adapter is properly inserted.	IOADPTR
0F03	The token ring adapter was unable to join the ring. Have the customer use the network configuration tool supplied by the distributor to specify a ring speed (instead of automatically detecting ring speed).	IOADPTR
0F04	The adapter open request failed with the specified error code.	IOADPTR
0800	The driver was unable to send a received packet to the upper layer protocols because there is insufficient free memory. The customer may need to increase system memory.	LPARCFG
0F05	The specified hardware, PCI or parity error has occurred. Have the customer reset the adapter	IOADPTR
0F06	The specified interrupt has occurred, but was not expected by the driver or a timeout occurred during device close processing. For occasional occurrences, no action is required. For excessive occurrences, have the customer reset the adapter. If resetting the adapter does not work, perform the action specified in the Failing Item column.	IOADPTR
0F07	Unrecognized srb command or cannot set mac/laa address while card is open. Have the customer reload the driver	IOADPTR
0F08	A short circuit has been detected. Have the customer do the following: <ul style="list-style-type: none"> • Check and replace cables, if necessary • Check and replace peer stations on ring, if necessary 	IOADPTR
0F09	An internal hardware error has been detected in the specified adapter during auto removal processing. Have the customer reload the driver	IOADPTR
0F0A	An FDX protocol error has been detected. Have the customer reload the driver	IOADPTR

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0F0B	Invalid return code in asb. Have the customer upgrade the driver	IOADPTR

Table 2. (BF77 5xxx) Linux reference codes (pcnet32 driver)

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5800	The driver was unable to use 32-bit DMA. Have the customer verify the driver software level.	NEXTLVL
5801	Memory allocation failed. Have the customer do the following: 1. Verify the driver software level 2. Increase the memory on the system	NEXTLVL
5802	Transmit timed out, resetting. Have the customer verify the driver software level.	NEXTLVL
5803	A FIFO error has occurred. Have the customer verify the driver software level.	NEXTLVL
5804	The transmit pointers are out of synchronization. Have the customer verify the driver software level.	NEXTLVL
5F00	The driver could not enable the PCI device.	IOADPTR
5F01	The hardware did not request any IO resources.	IOADPTR
5F02	The IO addresses for the card are already allocated. Have the customer verify the driver software level.	IOADPTR
5F03	The chip can not be accessed in 32-bit or 16-bit mode. Have the customer verify the driver software level.	IOADPTR

Table 3. (BF77 6xxx) Linux reference codes (bcm 5700 driver)

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6500	Unable to find or create the directory under /proc/net. Have the customer verify that procfs is supported by the kernel.	NEXTLVL
6501	Insufficient kernel memory available for allocation. Have the customer do the following: • Increase the memory on the system • Install the driver earlier in system bringup	NEXTLVL
6502	The driver was unable to use either 64-bit or 32-bit DMA. Have the customer verify driver software level.	NEXTLVL
6503	Linux does not support a hardware feature which has been enabled. Run diagnostics to disable Turbo Teaming.	NEXTLVL

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6504	Memory allocation failed - buffer parameters may be set too high. Have the customer do the following: <ol style="list-style-type: none"> 1. Reduce the tx_pkt_desc_cnt parameter of the driver 2. Reduce the rx_std_desc_cnt parameter of the driver 3. Reduce the rx_jumbo_desc_cnt parameter of the driver 	NEXTLVL
6505	Conflicting rx_coalesce_ticks (0) and rx_max_coalesce_frames (0) parameters. Have the customer do the following: <ol style="list-style-type: none"> 1. Change the rx_coalesce_ticks parameter of the driver 2. Change the rx_max_coalesce_frames parameter of the driver 	NEXTLVL
6506	Conflicting tx_coalesce_ticks (0) and tx_max_coalesce_frames (0) parameters. Have the customer do the following: <ol style="list-style-type: none"> 1. Change the tx_coalesce_ticks parameter of the driver 2. Change the tx_max_coalesce_frames parameter of the driver 	NEXTLVL
6507	The value given to the stats_coalesce_ticks parameter is invalid. Have the customer change the stats_coalesce_ticks parameter of the driver.	NEXTLVL
6800	Either this adapter or the system does not allow the use of adapter based transmit descriptors. Have the customer do the following: <ol style="list-style-type: none"> 1. Verify the driver software level 2. Change the nic_tx_bd parameter 	NEXTLVL
6801	This adapter does not support hardware checksum offload. Have the customer do the following: <ol style="list-style-type: none"> 1. Verify the driver software level 2. Change the driver's rx_checksum parameter 3. Change the driver's tx_checksum parameter 	NEXTLVL
6802	This adapter does not support hardware TSO. Have the customer do the following: <ol style="list-style-type: none"> 1. Verify the driver software level 2. Change the driver's enable_tso parameter 	NEXTLVL
6A00	This adapter hardware does not support frames sizes over 1500 bytes. Have the customer verify the driver software level If you replace the adapter, use one that offers additional capabilities	IOADPTR
6F00	Unable to read the adapter's NVRAM. Have the customer verify the driver software level	IOADPTR
6F01	Cannot get MAC addr from NVRAM. Have the customer verify the driver software level	IOADPTR
6F02	Unable to read PCI Config space or NVRAM. Have the customer verify the driver software level	IOADPTR

Table 4. (BF77 7xxx) Linux reference codes (e100 driver)

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
SRC	Probable Causes	Actions

BF77

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
7800	Internal error in driver, kernel, or firmware. Have the customer do the following: 1. Verify the driver software level. 2. Run diagnostics.	NEXTLVL
7801	Insufficient kernel memory is available for the driver. Have the customer do the following: 1. Install more memory in the system 2. Reconfigure the kernel to reduce memory consumption 3. Install the driver earlier in system bringup	NEXTLVL
7802	Internal error in driver, kernel, or firmware. Have the customer do the following: 1. Verify the driver software level 2. Run diagnostics	NEXTLVL
7E00	Not enough memory for the driver. Unable to initialize (or reinitialize) the adapter card. Have the customer do the following: 1. Verify the driver software level 2. Reconfigure the kernel to reduce memory consumption, then reboot	IOADPTR
7E01	The BIOS has assigned conflicting address spaces to different devices. Have the customer do the following: 1. Run diagnostics 2. Upgrade the BIOS	IOADPTR
7E02	The driver requested a DMA configuration that your system does not support. Have the customer do the following: 1. Verify the driver software level 2. Run diagnostics	IOADPTR
7E03	The adapter's MAC address is not a valid Ethernet address. Have the customer do the following: 1. Verify the driver software level 2. Run diagnostics	IOADPTR
7F00	The EEPROM on the network adapter may be corrupted.	IOADPTR
7F01	The driver cannot enable the adapter as a PCI device.	IOADPTR
7F02	The network adapter failed its self-test.	IOADPTR

Table 5. (BF77 8xxx) Linux reference codes (e1000 driver)

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
8E00	Cannot enable DMA for either 32 bits or 64 bits.	NEXTLVL
8E01	Unable to access PCI data area for checksum value. However, the device id is valid. Have the customer do the following: • Verify the driver software level • Run diagnostics • Replace board	NEXTLVL
8E02	The MAC type is not ethernet as expected. Have the customer do the following: • Verify the driver software level • Run diagnostics	IOADPTR

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
8F00	Adapter hardware failure.	IOADPTR

(CBxx) IBM Network Manager reference codes

The IBM Network Manager detected a failure. Record the reference code and the location code, if available, then find the failing item in *Clustering systems using InfiniBand (IB) hardware*.

Note: Reference codes based on events detected by the InfiniBand (IB) switches (CBxxxxxx) do not support the Call Home feature. They will not be called home by Electronic Service Agent™. If you attempt to use the manual function to initiate Call Home, it will not successfully generate a service call, and you will not receive any indication that the service call was not generated.

Reference Code	Description/Event name	Failing Item
CB201800	linkDown	IBNSLNK
CB102800	authenticationFailure	IBNSAUT
CB108800	tsCardDown	IBNSREM
CB109800	tsPowerSupplyDown	IBNSPOW
CB10A000	tsFanDown	IBNSFAN
CB10B800	tsCardRemove	IBNSREM
CB10C100	tsEvent::ibSmSlaveToMaster(4)	IBNSNLS
CB10C1C0	tsEvent::ibSmNodeDeleted(7)	IBNSNLS
CB10C4C0	tsEvent::ibSmDbSyncNotSupported(19)	IBNSNLS
CB10C500	tsEvent::ibSmDbSyncNotEnabled(20)	IBNSDBS
CB10C540	tsEvent::ibSmDbSyncNoStandby(21)	IBNSNLS
CB10C580	tsEvent::ibSmDbSyncDbVersionMismatch(22)	IBNSSMU
CB10C5C0	tsEvent::ibSmDbSyncColdSyncTimeout(23)	IBNSSMR
CB10C600	tsEvent::ibSmDbSyncSessionTimeout(24)	IBNSDBT
CB10C641	tsEvent::hardwareError(25)::local I2C error::1	IBNSDIG
CB10C642	tsEvent::hardwareError(25)::remote I2C error::2	IBNSDGA
CB10C643	tsEvent::hardwareError(25)::card seeprom error::3	IBNSDIG
CB10C644	tsEvent::hardwareError(25)::DiskOnChipError::4	IBNSDIG
CB10C645	tsEvent::hardwareError(25)::single bit memory error::5	IBNSDIG
CB10C646	tsEvent::hardwareError(25)::double bit memory error::6	IBNSDIG
CB10C647	tsEvent::hardwareError(25)::real-time clock stopped::7	IBNSBAT
CB10C648	tsEvent::hardwareError(25)::real-time clock sync::8	IBNSBAT
CB10C649	tsEvent::hardwareError(25)::no fan error::9	IBNSFAN
CB10C64A	tsEvent::hardwareError(25)::FPGA error::10	IBNSDIG
CB10C64B	tsEvent::hardwareError(25)::IB switch ASIC error::11	IBNSDIG
CB10C64C	tsEvent::hardwareError(25)::IB switch firmware error::12	IBNSDIG
CB10C64D	tsEvent::hardwareError(25)::voltage/current error::13	IBNSPOW
CB10C64E	tsEvent::hardwareError(25)::cpu ext bus error::14	IBNSDIG
CB10C64F	tsEvent::hardwareError(25)::cpu bus error::15	IBNSDIG
CB10C650	tsEvent::hardwareError(25)::fru error::16	IBNSDIG

CBxx

Reference Code	Description/Event name	Failing Item
CB10C651	tsEvent::hardwareError(25)::local ethernet error::17	IBNSDIG
CB10C652	tsEvent::hardwareError(25)::management ethernet error::18	IBNSDIG
CB10C653	tsEvent::hardwareError(25)::cpu error::19	IBNSDIG
CB10C654	tsEvent::hardwareError(25)::na::20	IBNSSWE
CB10C655	tsEvent::hardwareError(25)::na::21	IBNSSWE
CB10C656	tsEvent::hardwareError(25)::na::22	IBNSSWE
CB10C657	tsEvent::hardwareError(25)::na::23	IBNSSWE
CB10C658	tsEvent::hardwareError(25)::na::24	IBNSSWE
CB10C659	tsEvent::hardwareError(25)::na::25	IBNSSWE
CB10C65A	tsEvent::hardwareError(25)::na::26	IBNSSWE
CB10C65B	tsEvent::hardwareError(25)::na::27	IBNSSWE
CB10C65C	tsEvent::hardwareError(25)::na::28	IBNSSWE
CB10C65D	tsEvent::hardwareError(25)::na::29	IBNSSWE
CB10C65E	tsEvent::hardwareError(25)::na::30	IBNSSWE
CB10C65F	tsEvent::hardwareError(25)::na::31	IBNSSWE
CB10C660	tsEvent::hardwareError(25)::na::32	IBNSSWE
CB10C661	tsEvent::hardwareError(25)::na::33	IBNSSWE
CB10C662	tsEvent::hardwareError(25)::na::34	IBNSSWE
CB10C663	tsEvent::hardwareError(25)::na::35	IBNSSWE
CB10C664	tsEvent::hardwareError(25)::na::36	IBNSSWE
CB10C665	tsEvent::hardwareError(25)::na::37	IBNSSWE
CB10C666	tsEvent::hardwareError(25)::na::38	IBNSSWE
CB10C667	tsEvent::hardwareError(25)::na::39	IBNSSWE
CB10C6C1	tsEvent::softwareInitiatedReboot(27); watchdog::1	IBNSSWP
CB10C6C2	tsEvent::softwareInitiatedReboot(27); assertion::2	IBNSSWP
CB10C6C3	tsEvent::softwareInitiatedReboot(27); out-of-memory::3	IBNSSWP
CB10C6C4	tsEvent::softwareInitiatedReboot(27); no working fan::4	IBNSFAN
CB10C701	tsEvent::hardwareInitiatedReboot(28); watchdog::1	IBNSSWP
CB20C740	tsEvent::ibPmPortMonitorThresholdErrorChange(29)	IBNSLNK
CB20C780	tsEvent::ibPmPortMonitorThresholdUtilChange(30)	IBNSLNK
CB20C7C0	tsEvent::ibPmConnectionMonitorErrorChange(31)	IBNSLNK
CB20C230	tsEvent::ibPmConnectionMonitorUtilChange(32)	IBNSLNK
CB100001	tsSensor::(tsSensor::tsDevSensorTemperature=warning)::1	IBNSTHM
CB100002	tsSensor::(tsSensor::tsDevSensorTemperature=normal)::2	IBNSTHM
CB100003	tsSensor::(tsSensor::tsDevSensorTemperature=critical)::3	IBNSTHM
CBFF0000	Network Manager Diagnostics Event - Report this side	IBNNMD
CBFF0001	Network Manager Diagnostics Event - Report other side	IBNNMD
CBFF0002	Network Manager Diagnostics Event - Report cable	IBNNMD
CBFF00FF	Unrecognized Unit Model	IBNNURM
CB10FF00	VPD problem	IBNSVPD

(DAXx) Partition firmware reference (error) codes

The partition firmware detected a failure. The first eight characters in the display represent the SRC. Any additional characters represent the associated location code. Record the location code as well as the reference code, then find the SRC in the following table.

Table 1. (DAXx) Partition firmware reference (error) codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
DA080001	An IDE device remained busy for a longer period than the time out period	FWFWPBL
DA080002	The IDE controller senses IDE devices but with errors. <ul style="list-style-type: none"> • Verify that the IDE devices are seated properly and cabled correctly • Replace the IDE controller (model-dependent) 	
DA080010	An IDE device is busy longer than specified time-out period. Retry the operation.	FWIDE1
DA080011	An IDE command timed out; command is exceeding the period allowed to complete. Retry the operation.	FWIDE1
DA080012	The ATA command failed	FWIDE2
DA080013	The media is not present in the tray Retry the operation.	FWIDE1
DA080014	The media has been changed Retry the operation.	FWIDE1
DA080015	The packet command failed; the media might not be readable. Retry the operation.	FWIDE1

(E2xx) Licensed Internal Code error codes

The Hardware Management Console generates E2xx error codes when it encounters a Licensed Internal Code problem.

Table 1. (E2xx) Licensed Internal Code progress codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E2BB1250	The system monitor that checks for HMC hardware failures has shutdown. This is usually the result of the system syslog being shutdown. You will need to shut down and restart the HMC.	
E2FF450F	The log manager cannot read the expected amount of data from the log file. When this occurs, the log manager will copy the current log file to iqyysave.log, start a new log file, and copy the error log to the new log file. If possible, collect the iqyysave.log file with the error data for reference. There is no other action required.	
E2xxxxxx	Licensed Internal Code failure on the HMC. Contact your service provider.	NEXTLVL

(E3xx) Licensed Internal Code error codes

The Hardware Management Console (HMC) generates E3xx error codes when it encounters a Licensed Internal Code problem.

E3xx

- **E302:** The HMC encountered a problem during an update of the firmware for the managed system. See “(E302) Firmware update error codes.”
- **E303:** See “(E303) Formatting media error codes” on page 523.
- **E332:** Licensed Internal Code error codes. See “(E332) Licensed Internal Code error codes” on page 524.
- **E338:** An error occurred during the initialization of the components required for performing guided maintenance from Service Focal Point. See “(E338) Licensed Internal Code error in guided maintenance in Service Focal Point” on page 524.
- **E355:** See “(E355) errors” on page 524.
- **E35A:** See “(E35A) HMC code level” on page 526.
- **E35F:** See “(E35F) Persistence error codes” on page 526.
- **E36C:** See “(E36C) HMC scheduled task errors” on page 526.
- **E3CA:** Error regarding a media device. See “(E3CA) Error regarding a media device” on page 527.
- **E3D4:** See “(E3D4) Call home errors” on page 530.
- **E3F0:** See “(E3F0) Trace failure” on page 531.

For all other E3xx SRCs, use the following table.

Table 1. (E3xx) Licensed Internal Code error codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E3xxxxx	Licensed Internal Code failure on the HMC. Contact your service provider.	NEXTLVL

(E302) Firmware update error codes

The Hardware Management Console generates E302 error codes when it encounters a problem during an update of the firmware for the managed system.

Table 1. (E302) Licensed Internal Code error codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302Exxx	Licensed Internal Code failure on the HMC. Contact your service provider.	
E302F000 to E302F7xx	Licensed Internal Code failure on the HMC. Contact your service provider.	
E302F800	An error occurred while attempting to create a provider instance of the service processor interface code as a PIHSCCECCIMClient. An exception was thrown from the PIHSCCECCIMClient createInstance code. Go to the Server and Partition display, refresh the screen and ensure the system is in a good state (for example, power off, standby, or operating). Then repeat the operation.	
E302F801	An error occurred while attempting to find one of the directories used to store data for the firmware update application. Reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F802	<p>The survey from the repository method was called, but the repository selected was not the IBM support system, the IBM Web site, the DVD, or the hard drive.</p> <p>Use the HMC graphical user interface (GUI) to reselect the source for code updates, then retry the update. If the problem occurs again, contact your next level of support.</p>	
E302F803	<p>The survey from an FTP site failed when downloading the list of files from the FTP repository failed.</p> <p>Verify that you correctly entered valid values for the FTP site, user, password, and directory. Then repeat the operation.</p>	
E302F804	<p>The request to get a list of IBM support system fixpacks failed because the request timed out.</p> <p>Verify that the HMC is properly configured to communicate with the IBM support system. Verify that the IBM support system has accepted the administrative information for your HMC, then repeat the operation.</p> <p>Verify that you correctly entered valid values for the FTP site, user, password, and directory. Then repeat the operation.</p>	
E302F805	<p>The request to get a list of IBM support system fixpacks failed with an exception.</p> <p>Repeat the operation. If it fails, call your next level of support.</p>	
E302F806	<p>The request to get a list of IBM support system fixpacks failed with an error code.</p> <p>Repeat the operation. If it fails, call your next level of support.</p>	
E302F807	<p>No phone server was available to service the request to get a list of IBM support system fixpacks.</p> <p>Ensure that your connection to the IBM support system is set up correctly and repeat the operation.</p>	
E302F808	<p>The list of fixpacks was retrieved from the IBM support system, but an I/O exception occurred when the list was written to the hard file.</p> <p>Reboot the HMC and retry the operation. If it fails again, consider replacing the disk drive in the HMC.</p>	
E302F809	<p>An error occurred while attempting to run the code to get the service processor to run a query, or set, the current IPL side or the next IPL side.</p> <p>Go to the Server and Partition display, refresh the screen and ensure the system is in a good state (for example, power off, standby, or operating). Then repeat the operation.</p>	
E302F80A	<p>An invalid object was used while attempting to create an owner for the update.</p> <p>Something is wrong with the selected target. Reboot the HMC and retry the operation. If the problem persists contact your next level of support.</p>	
E302F80B	<p>Unable to get the name of the HMC while preparing to create a service processor client.</p> <p>Reboot the HMC and retry the operation. If it fails again, contact your next level of support.</p>	

E302

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F80C	<p>Failure when attempting to read a file.</p> <p>Reboot the HMC and retry the operation. If it fails again, consider replacing the disk drive of the HMC.</p>	
E302F80D	<p>Failure when attempting to close a file.</p> <p>Reboot the HMC and retry the operation. If it fails again, consider replacing the disk drive of the HMC.</p>	
E302F80E	<p>The list of fixpacks was retrieved from the IBM support system, but an I/O exception occurred when closing the list that was written to the hard file.</p> <p>Reboot the HMC and retry the operation. If it fails again, consider replacing the disk drive of the HMC.</p>	
E302F80F	<p>The method to import the stageable cover letter was called, but the repository selected was not the IBM support system, the IBM Web site,, the DVD, or the hard drive.</p> <p>Use the HMC GUI to reselect the source for code updates, and then retry the update. If the problem occurs again, contact your next level of support.</p>	
E302F810	<p>Unable to FTP the cover letter from the specified repository to the staging area.</p> <p>Verify that the FTP site is still up, and then retry the operation.</p>	
E302F811	<p>The request to get cover letter from the IBM support system timed out.</p> <p>Verify that your connection to the IBM support system is set up correctly and is operational. Retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F812	<p>The request to get cover letter from the IBM support system failed with an exception.</p> <p>Verify that your connection to the IBM support system is set up correctly and is operational. Retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F813	<p>The request to get cover letter from the IBM support system failed with an error code.</p> <p>Verify that your connection to the IBM support system is set up correctly and is operational. Retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F814	<p>No phone server was available to service the request to get cover letters from the IBM support system.</p> <p>Configure the HMC as a phone server and retry the operation.</p>	
E302F815	<p>Failure when attempting to copy the cover letter from the DVD to the staging area on the hard file.</p> <p>The CD or DVD may be faulty. Try another one.</p>	
E302F816	<p>An error occurred when attempting to get the service processor to run a query of its state.</p> <p>Go to the Server and Partition display, refresh the screen and ensure the system is in a good state (for example, power off, standby, or operating). Then repeat the operation.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F817	A query of the current IPL side returned a null. Go to the Server and Partition display, refresh the screen and ensure the system is in a good state (for example, power off, standby, or operating). Then repeat the operation.	
E302F818	A query of the next IPL side returned a null. Go to the Server and Partition display, refresh the screen and ensure the system is in a good state (for example, power off, standby, or operating). Then repeat the operation.	
E302F819	A query of the current IPL side failed. Go to the Server and Partition display, refresh the screen and ensure the system is in a good state (for example, power off, standby, or operating). Then repeat the operation.	
E302F81A	An exception occurred during a query of the current IPL side. Go to the Server and Partition display, refresh the screen and ensure the system is in a good state (for example, power off, standby, or operating). Then repeat the operation.	
E302F81B	A query of the next IPL side failed. Go to the Server and Partition display, refresh the screen and ensure the system is in a good state (for example, power off, standby, or operating). Then repeat the operation.	
E302F81C	An exception occurred during a query of the next IPL side. Go to the Server and Partition display, refresh the screen and ensure the system is in a good state (for example, power off, standby, or operating). Then repeat the operation.	
E302F81D	Failure during an attempt to copy the cover letter from the IBM Web site to the staging area on the hard file. Reboot the HMC. Verify that your LAN connection is set up properly. Then retry the operation.	
E302F81E	Failure of a survey from an FTP site occurred when a connection to the site was unavailable. Ensure that the FTP site is reachable on the network from the HMC and that the site is up and running properly. Ensure that all firewall authentications are successfully performed if needed, and then retry the operation.	
E302F81F	Failure of a survey from an FTP site occurred when logging into the site was unsuccessful. Ensure that the login parameters are correct, and then retry the operation.	
E302F820	An error occurred while attempting to read the common marker firmware update file from flash memory to the hard file. Go to the Server and Partition display, refresh the screen and ensure the system is in a good state (for example, power off, standby, or operating). Then repeat the operation. If the problem occurs again contact your next level of support.	

E302

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F821	<p>An error occurred while attempting to read the common marker firmware update file from the hard file into memory.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again contact your next level of support.</p>	
E302F822	<p>An error occurred while attempting to find one of the directories used to store data for the firmware update application.</p> <p>Reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.</p>	
E302F823 to E302F827	<p>Licensed Internal Code failure on the HMC.</p> <p>Contact your service provider.</p>	
E302F828	<p>An error occurred while attempting to read the master firmware update file from flash memory to the hard drive.</p> <p>Reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.</p>	
E302F829	<p>An error occurred while attempting to read the master firmware update file from the hard drive into memory.</p> <p>Reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.</p>	
E302F82A	<p>An error occurred while attempting to read the header of the master firmware update file from flash memory to the hard file.</p> <p>Reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.</p>	
E302F82B	<p>An error occurred while attempting to find one of the directories used to store data for the firmware update application.</p> <p>Reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.</p>	
E302F82C	<p>An error occurred while attempting to create a provider instance of the secondary service processor interface code as a PIHSCCECCIMClient. An exception was thrown from the PIHSCCECCIMClient createInstance code.</p> <p>Go to the Server and Partition display, refresh the screen and ensure that the system is in a good state (power off, standby, or power on). Then repeat the operation.</p>	
E302F82D	<p>This error code will be posted under either of the following set of conditions:</p> <ul style="list-style-type: none"> • After a service processor failover, the HMC attempted to read the P1 marker LID from the new primary service processor. If the P1 marker LID on the previously-primary service processor had not been synchronized with the P1 marker LID on the now-primary service processor before the failover, this error code will be posted. It indicates that the P1 marker LID file was not found on the now-primary service processor. <p>This error is not critical; it only effect the HMC's ability to determine whether or not deferred firmware updates have been applied.</p> <ul style="list-style-type: none"> • The files needed to create the P1 marker LID are not available because the HMC is in the process of writing one of them to the service processor. This can happen when a P-side restore runs because a "Do not accept" choice was selected on the advanced features panels. Currently, the HMC will issue an "Islic" command during problem analysis by Inventory Scout scripts. If the P-side common marker LID file is being written to at the time that Inventory Scout script issues the "Islic" command, the E302F82D will be posted. <p>Action: Install the latest HMC code package, then install the latest system firmware.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F82E, E302F82F	Licensed Internal Code failure on the HMC. Contact your service provider.	
E302F830	An error occurred while attempting to read a flash firmware update file from the hard file into memory. Reboot the HMC and try the operation again. If the problem occurs again, consider replacing the disk drive of the HMC.	
E302F831	A file that was supposed to be a firmware update file either does not exist or is too small to contain a valid header. If you are using nondisruptive microcode, verify that your test firmware update files are correct. Otherwise contact your next level of support.	
E302F832	An error occurred while trying to create a private staging area directory for firmware update files on the HMC disk drive. Follow the HMC procedures to remove dump files from the HMC disk drive. (The HMC disk drive is used for the private staging area and it may be full.) Then reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.	
E302F833	An error occurred while trying to change file permissions in the private staging area directory for firmware update files. This error might indicate that the files in the private staging area were not created, especially if this error occurs with E302F832. Follow the procedures for E302F832.	
E302F834 to E302F837	Licensed Internal Code failure on the HMC. Contact your service provider.	
E302F838	An error occurred while attempting to read the information about the fixpack out of the cover letter. Verify that the cover letter is correct and has not been corrupted. Reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.	
E302F839 to E302F83F	Licensed Internal Code failure on the HMC. Contact your service provider.	
E302F840	An error occurred while attempting to get the engineering change streams in order to retrieve all of the updates from removable media. Reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.	
E302F841	An error occurred while attempting to issue a start code update command to the master service processor. Try the operation again. If the problem occurs again, contact your next level of support.	
E302F842	An error occurred while attempting to issue a write firmware update file command to the master service processor. Try the operation again. If the problem occurs again, contact your next level of support.	

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F843	An error occurred while attempting to issue a "code update complete" action to the master service processor. Try the operation again. If the problem occurs again, contact your next level of support.	
E302F844	An error occurred while attempting to reboot the service processor Try the operation again. If the problem occurs again, contact your next level of support.	
E302F845	The "import from a remote repository" code routine was called, but the repository selected was not the IBM support system or the IBM Web site. Use the HMC GUI to reselect the source for code updates. If the problem occurs again, contact your next level of support.	
E302F846	An error occurred while attempting to swap the T and P sides of the service processor. Try the operation again. If the problem occurs again, contact your next level of support.	
E302F847	An engineering change stream was passed between components, but no such engineering change stream exists for the targeted object. Reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.	
E302F848	A request to import the IBM support system fixpacks and cover letters timed out. Verify that your connection to the IBM support system is set up correctly and is operational. Retry the operation. If the problem reoccurs, contact your next level of support.	
E302F849	A request to import the IBM support system fixpacks and cover letters failed. Verify that your connection to the IBM support system is set up correctly and is operational. Retry the operation. If the problem reoccurs, contact your next level of support.	
E302F84A	Failure during an attempt to read the surveyed list of fixpacks. Reboot the HMC and try the operation again. If the problem occurs again, consider replacing the disk drive of your HMC.	
E302F84B	Failure during an attempt to close the surveyed list of fixpacks. Reboot the HMC and try the operation again. If the problem occurs again, consider replacing the disk drive of your HMC.	
E302F84C	An error occurred while attempting to get the engineering change streams in order to list all of the updates available on the removable media. Reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.	
E302F84D	An error occurred while trying to copy the RPM files from the media repository to the hard file. The CD or DVD may be faulty. Try another one.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F84E	<p>An error occurred in a removable media code routine because the file types were null.</p> <p>Reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.</p>	
E302F84F	<p>An error occurred in a method because one of the file arrays had a length of zero.</p> <p>Reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.</p>	
E302F850	<p>A failure occurred while trying to unpack the RPM file in the "complete concurrently" code routine.</p> <p>Reboot the HMC and try the operation again. In the HMC code released before August 2004, there was a problem that can be corrected with commands from the Linux command line as follows:</p> <pre>ls -l /opt/ccfw/data/*.rpm rpm -qp <i>rpmfilename</i> (where <i>rpmfilename</i> is the name of the file returned by the ls command)</pre> <pre>rpm -e rpm <i>packagename</i> (where <i>packagename</i> is the name of the package returned by the rpm -e command)</pre>	
E302F851	<p>The request to retrieve fixpacks from the IBM support system failed with an error code.</p> <p>Verify that your connection to the IBM support system is set up correctly and is operational. Retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F852	<p>No phone server was available to serve the request to retrieve IBM support system fixpacks.</p> <p>Configure the HMC as a phone server and retry the operation.</p>	
E302F853	<p>An error occurred while attempting to find the directory where firmware update files are stored for testing with the non disruptive application panel.</p> <p>Reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.</p>	
E302F854	<p>An error occurred while attempting to issue a read firmware update file command to a service processor</p> <p>Try the operation again. If the problem occurs again, contact your next level of support.</p>	
E302F855	<p>Importing from an FTP site failed when the files from the FTP repository were not retrieved.</p> <p>Try the operation again. If the problem occurs again, contact your next level of support.</p>	
E302F856	<p>A failure occurred when trying to query the name of the image in the RPM file.</p> <p>Try the operation again. If the problem occurs again, contact your next level of support.</p>	

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F857	A failure occurred while attempting to issue the runact API. Try the operation again. If the problem occurs again, contact your next level of support.	
E302F858	An exception occurred while attempting to issue the runact API. Try the operation again. If the problem occurs again, contact your next level of support.	
E302F859	An exception occurred while trying to query the name of the image in the RPM file. Try the operation again. If the problem occurs again, contact your next level of support.	
E302F85A	An exception occurred while trying to unpack the RPM file in the "complete concurrently" code routine. Try the operation again. If the problem occurs again, contact your next level of support.	
E302F85B	An exception occurred while trying to import updates from the DVD. The CD or DVD may be faulty. Try another one.	
E302F85C	An error occurred while attempting to copy the T side to the P side. In the Licensed Internal Code Update panels, choose <i>Select advanced features</i> , and then choose <i>Accept</i> to copy the T side to the P side. If the problem occurs again, contact your next level of support.	
E302F85D	An error occurred while attempting to IPL the system unit. The level of code requested is most likely activated on the targeted system. Verify the activated level through System Information. Then IPL the system unit if desired.	
E302F85E	An error occurred while attempting to power on the system unit. The level of code requested is most likely activated on the targeted system. Verify the activated level through System Information. Then power on the system unit if desired.	
E302F85F	An error occurred while attempting to power off the system unit. Try powering off the system unit manually and doing the code update while the system is in the platform standby state.	
E302F860	An error occurred while trying to import updates to the DVD during an export command. The CD or DVD may be faulty. Try another one.	
E302F861	An error occurred while attempting to open the hypervisor diff file prior to writing. The level of code requested is most likely activated on the targeted system, but not loaded into the server firmware. Verify the activated level through System Information. If the activated level is what is expected, schedule a time to IPL the system.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F862	<p>An error occurred while attempting to write the hypervisor diff file to the hypervisor.</p> <p>The level of code requested is most likely activated on the targeted system, but not loaded into the server firmware. Verify the activated level through System Information. If the activated level is what is expected, schedule a time to IPL the system.</p>	
E302F863	<p>An error occurred while attempting to close the hypervisor firmware diff file after writing it to the server firmware.</p> <p>The level of code requested is most likely activated on the targeted system, but not loaded into the hypervisor. Verify the activated level through System Information. If the activated level is what is expected, schedule a time to IPL the system.</p>	
E302F864	<p>An exception occurred during the query to see if a hypervisor firmware update has completed.</p> <p>The level of code requested is most likely activated on the targeted system, but not loaded into the hypervisor. Verify the activated level through System Information. If the activated level is what is expected, schedule a time to IPL the system.</p>	
E302F865	<p>A failure occurred while querying the status after a firmware update.</p> <p>The level of code requested is most likely activated on the targeted system, but not loaded into the server firmware. Verify the activated level through System Information. If the activated level is what is expected, schedule a time to IPL the system.</p>	
E302F866	<p>The hypervisor firmware update timed out.</p> <p>The level of code requested is most likely activated on the targeted system, but not loaded into the hypervisor. Verify the activated level through System Information. If the activated level is what is expected, schedule a time to IPL the system.</p>	
E302F867	<p>An interruption occurred while waiting for the hypervisor firmware update.</p> <p>The level of code requested is most likely activated on the targeted system, but not loaded into the hypervisor. Verify the activated level through System Information. If the activated level is what is expected, schedule a time to IPL the system.</p>	
E302F868	<p>An error occurred while issuing a start code update command to the secondary service processor.</p> <ul style="list-style-type: none"> For systems using HMC firmware before V5R1.1, the secondary service processor will be synchronized in the next code update. If this does not occur, contact your next level of support. For systems using V5R1.1 (or newer) HMC firmware, follow the appropriate replace and verify procedure to synchronize the secondary service processor firmware to the primary firmware. Ensure that you set up the service processor failover feature as desired after you complete the replace and verify procedure. 	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F869	<p>An error occurred while issuing a write firmware update file command to the secondary service processor.</p> <ul style="list-style-type: none"> For systems using HMC firmware before V5R1.1, the secondary service processor will be synchronized in the next code update. If this does not occur, contact your next level of support. For systems using V5R1.1 (or newer) HMC firmware, follow the appropriate replace and verify procedure to synchronize the secondary service processor firmware to the primary firmware. Ensure that you set up the service processor failover feature as desired after you complete the replace and verify procedure. 	
E302F86A	<p>An error occurred issuing a code update complete command to the secondary service processor.</p> <ul style="list-style-type: none"> For systems using HMC firmware before V5R1.1, the secondary service processor will be synchronized in the next code update. If this does not occur, contact your next level of support. For systems using V5R1.1 (or newer) HMC firmware, follow the appropriate replace and verify procedure to synchronize the secondary service processor firmware to the primary firmware. Ensure that you set up the service processor failover feature as desired after you complete the replace and verify procedure. 	
E302F86B	<p>A failure occurred while issuing a runact API to query the partitions and their status.</p> <p>The level of code requested is most likely activated on the targeted system, but not loaded into the server firmware. Verify the activated level through System Information. If the activated level is what is expected, schedule a time to restart the partitions.</p>	
E302F86C	<p>An exception occurred while issuing a runact API to query the partitions and their status.</p> <p>The level of code requested is most likely activated on the targeted system, but not loaded into the server firmware. Verify the activated level through System Information. If the activated level is what is expected, schedule a time to restart the partitions.</p>	
E302F86D	<p>A fixpack did not contain a diff firmware update file, or no diff firmware update file was found in the firmware update file directory, for nondisruptive firmware application.</p> <p>The level of code requested is most likely activated on the targeted system, but not loaded into the server firmware. Verify the activated level through System Information. If the activated level is what is expected, schedule a time to IPL the system.</p>	
E302F86E	<p>An error occurred during a call to a code module while preparing to write the hypervisor firmware diff file to flash memory.</p> <p>The level of code requested is most likely activated on the targeted system, but not loaded into the hypervisor firmware. Verify the activated level through System Information. If the activated level is what is expected, schedule a time to IPL the system.</p>	
E302F86F	<p>An error occurred during a call to a code module while attempting to write the hypervisor firmware diff file to flash memory.</p> <p>The level of code requested is most likely activated on the targeted system, but not loaded into the hypervisor firmware. Verify the activated level through System Information. If the activated level is what is expected, schedule a time to IPL the system.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F870	<p>An error occurred during a call to a code module after writing the hypervisor firmware diff file to flash memory.</p> <p>The level of code requested is most likely activated on the targeted system, but not loaded into the hypervisor firmware. Verify the activated level through System Information. If the activated level is what is expected, schedule a time to IPL the system.</p>	
E302F871	<p>An error occurred during the call to start firmware update to concurrently patch firmware.</p> <p>The level of code requested is most likely activated on the targeted system, but not loaded into the server firmware. Verify the activated level through System Information. If the activated level is what is expected, schedule a time to IPL the system.</p>	
E302F872	<p>Querying status after a firmware update did not return the proper number of elements in the vector.</p> <p>The level of code requested is most likely activated on the targeted system, but not loaded into the server firmware. Verify the activated level through System Information. If the activated level is what is expected, schedule a time to IPL the system.</p>	
E302F873	<p>Rebooting the service processor was executed, but the system unit did not return to the state where the T side was active within a reasonable amount of time. This generally means that the system was not successful when coming up with the new code level and went back to the older code level</p> <p>Retry the operation. To do this, select Select Advanced Features and then select Install And Activate. If the code update fails again, contact your next level of support.</p>	
E302F874	<p>Rebooting the service processor was executed, but the system unit did not return to its original state within a reasonable amount of time.</p> <p>Go to the Server and Partition display, refresh the screen and ensure the system is in a good state (for example, power off, standby, or operating). If it is not in a good state, then take the necessary steps to put it in a good state. After it is in a good state, check System Information to ensure the code update was applied. If it is now in a good state but the update is not applied, repeat the operation.</p>	
E302F875	<p>An error occurred while attempting to query (at standby) in an attempt to retrieve all of the updates from the removable media.</p> <p>The CD or DVD may be faulty. Try another one.</p>	
E302F876	<p>A failure occurred while trying to query the name of the image in the RPM file.</p> <p>Reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.</p>	
E302F877	<p>An exception occurred while trying to query the name of the image in the RPM file.</p> <p>Reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.</p>	
E302F878	<p>A failure occurred trying to erase an RPM file.</p> <p>Reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.</p>	

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F879	<p>An exception occurred trying to erase an RPM file.</p> <p>Reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.</p>	
E302F87A	<p>A failure occurred while trying to change the permissions of an image file after it had been pulled from an RPM package.</p> <p>Reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.</p>	
E302F87B	<p>An exception occurred while trying to change the permissions of an image file after it had been pulled from an RPM package.</p> <p>Reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.</p>	
E302F87C	<p>After the flash write to the primary service processor was complete, the secondary service processor did not complete operations within half an hour.</p> <ul style="list-style-type: none"> For systems using HMC firmware before V5R1.1, the secondary service processor will be synchronized in the next code update. If this does not occur, contact your next level of support. For systems using V5R1.1 (or newer) HMC firmware, follow the appropriate replace and verify procedure to synchronize the secondary service processor firmware to the primary firmware. Ensure that you set up the service processor failover feature as desired after you complete the replace and verify procedure. 	
E302F87D	<p>A failure occurred importing I/O microcode.</p> <p>Try the operation again. If the problem occurs again, contact your next level of support.</p>	
E302F87E	<p>An IPL of the service processor was executed as part of a disruptive firmware update, but it did not put the system in its original state within a reasonable amount of time.</p> <p>Go to the Server and Partition display, refresh the screen and ensure the system is in a good state (for example, power off, standby, or operating). If it is not in a good state, take the necessary steps to put it in a good state. After it is in a good state, check System Information to ensure the code update was applied.</p>	
E302F87F	<p>Powering off the service processor was executed as part of a disruptive firmware update, but it did not put the service processor in a powered off state within a reasonable amount of time.</p> <p>Go to the Server and Partition display, refresh the screen and ensure the system is in a good state (for example, power off, standby, or operating). If it is not in a good state, take the necessary steps to put it in a good state. After it is in a good state, repeat the code update operation.</p>	
E302F880	<p>Powering on the service processor was executed as part of a disruptive firmware update, but it did not put the service processor in a powered on state within a reasonable amount of time.</p> <p>Go to the Server and Partition display, refresh the screen and ensure the system is in a good state (for example, power off, standby, or operating). If it is not in a good state, take the necessary steps to put it in a good state. After it is in a good state, check System Information to ensure the code update was applied.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F881	An IPL was executed as part of a disruptive firmware update, but the managed system was placed in an error state. If this message occurs, contact your next level of support.	
E302F882	A power off was executed as part of a disruptive firmware update, but the managed system was placed in an error state. If this message occurs, contact your next level of support.	
E302F883	A power on was executed as part of a disruptive firmware update, but the managed system was placed in an error state. If this message occurs, contact your next level of support.	
E302F884	The service processor was rebooted during a firmware update, but it did not put the service processor in a "not connected" state within a reasonable amount of time. Go to the Server and Partition display, refresh the screen and ensure the system is in a good state (for example, power off, standby, or operating). If it is not in a good state, take the necessary steps to put it in a good state. When in a good state, check System Information to ensure the code update was applied. If it is now in a good state but the update is not applied, then repeat the operation.	
E302F885	The service processor was rebooted during a firmware update, which put the service processor in a "not connected" state. However, this action did not clear the "not connected" state within a reasonable amount of time. Contact the next level of support for assistance in getting the HMC to communicate with the service processor again.	
E302F886	An exception occurred during execution of the synchronous import program while retrieving code from a repository. If this message occurs, contact your next level of support.	
E302F887	An exception occurred during execution of the synchronous apply staged updates program while applying code from the hard file staging area. If this message occurs, contact your next level of support.	
E302F888	A chsyscfg command was issued to change the next IPL side, but it failed. Reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.	
E302F889	An exception occurred after a chsyscfg command was issued to change the next IPL side. Reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.	
E302F88A	Powering off the system unit has started.	
E302F88B	Reading of the firmware update files has started.	
E302F88C	Writing of the firmware update files has started.	
E302F88D	Rebooting the service processor has started.	
E302F88E	Powering on the system unit has started.	
E302F88F	Restoring of the firmware update files to the P side has started.	

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F890	<p>An error occurred while attempting to find the directory used as temporary storage.</p> <p>Reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.</p>	
E302F891	<p>Failure when attempting to import an RPM package from the IBM Web site.</p> <p>Verify that your LAN connections are set up properly and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F892	<p>A request was received to take the service processor back to an earlier level, but it was a concurrent request. This operation can only be performed disruptively.</p> <p>Reboot the HMC and schedule time for a disruptive update. Retry the operation during that scheduled time. If the problem occurs again, contact your next level of support.</p>	
E302F893	<p>A general error occurred while applying code.</p> <p>If another error occurs before this message, follow the action for that error. If this message occurs by itself, contact your next level of support.</p>	
E302F894	<p>A general error occurred while processing a hardware upgrade.</p> <p>If another error occurs before this message, follow the action for that error. If this message occurs by itself, contact your next level of support.</p>	
E302F895	<p>A general error occurred while committing code.</p> <p>If another error occurs before this message, follow the action for that error. If this message occurs by itself, contact your next level of support.</p>	
E302F896	<p>A general error occurred while exporting code to the DVD.</p> <p>If another error occurs before this message, follow the action for that error. If this message occurs by itself, contact your next level of support.</p>	
E302F897	<p>A general error occurred while importing code.</p> <p>If another error occurs before this message, follow the action for that error. If this message occurs by itself, contact your next level of support.</p>	
E302F898	<p>A general error occurred while rejecting code.</p> <p>If another error occurs before this message, follow the action for that error. If this message occurs by itself, contact your next level of support.</p>	
E302F899	<p>An attempt was made to update the hypervisor firmware, but the hypervisor reported that it is already at that level.</p>	
E302F89A	<p>A general error occurred while updating the flash on a service processor.</p> <p>If another error occurs before this message, follow the action for that error. If this message occurs by itself, contact your next level of support.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F89B	<p>An error occurred while swapping the T and P sides of the secondary service processor.</p> <ul style="list-style-type: none"> For systems using HMC firmware before V5R1.1, the secondary service processor will be synchronized in the next code update. If this does not occur, contact your next level of support. For systems using V5R1.1 (or newer) HMC firmware, follow the appropriate replace and verify procedure to synchronize the secondary service processor firmware to the primary firmware. Ensure that you set up the service processor failover feature as desired after you complete the replace and verify procedure. 	
E302F89C	<p>An error occurred while copying the T to the P side on the secondary service processor.</p> <ul style="list-style-type: none"> For systems using HMC firmware before V5R1.1, the secondary service processor will be synchronized in the next code update. If this does not occur, contact your next level of support. For systems using V5R1.1 (or newer) HMC firmware, follow the appropriate replace and verify procedure to synchronize the secondary service processor firmware to the primary firmware. Ensure that you set up the service processor failover feature as desired after you complete the replace and verify procedure. 	
E302F89D	<p>A failure occurred either writing the firmware to the bulk power assemblies (BPAs), or rebooting them after writing the firmware.</p> <p>If another error occurs before this message, follow the action for that error. If this message occurs by itself, contact your next level of support.</p>	
E302F89E	<p>A failure occurred while trying to erase a file.</p> <p>If another error occurs before this message, follow the action for that error. If this message occurs by itself, contact your next level of support.</p>	
E302F89F	<p>An attempt to set a lock on a BPA frame failed. The BPA is locked by another process.</p> <p>Do the following as applicable:</p> <ol style="list-style-type: none"> Make sure that you do not select multiple managed systems (that are associated with the same power frame) for simultaneous managed system and power code update or upgrade. Allow all currently running code update processes to end successfully on all of the associated HMCs. Ensure that all frame numbering, frame initialization, and repair and verify processes that also use BPA locking end successfully on all of the associated HMCs. After all the operations are finished and a retargeting to one of the managed systems still results in this error, remove the BPA lock. To remove the BPA lock, use the following command from the HMC: <pre>rmlock -e Frame*MTMS</pre> <p>where <i>Frame*MTMS</i> is the machine-type, model, and serial number of the affected BPA.</p> Retry the operation. If the error occurs again, contact your next level of support. 	

E302

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F8A0	An error occurred while trying to read the list of fixpacks that was surveyed. Reboot the HMC and retry the operation. If the problem occurs again, consider replacing the disk drive of the HMC.	
E302F8A1	An error occurred while trying to close the list of fixpacks that was surveyed. Reboot the HMC and retry the operation. If the problem occurs again, consider replacing the disk drive of the HMC.	
E302F8A2	An error occurred while attempting to update the server firmware. Try the operation again. If the error occurs again, contact your next level of support.	
E302F8A3	An error occurred while querying to see if the server firmware diff file is in memory. Try the operation again. If the error occurs again, contact your next level of support.	
E302F8A4	An exception occurred while querying to see if the server firmware diff file is in memory. Try the operation again. If the error occurs again, contact your next level of support.	
E302F8A5	An exception occurred while querying to see if the HMC is the code update owner. Try the operation again. If the error occurs again, contact your next level of support.	
E302F8A6	An exception occurred while setting the HMC to be the code update owner. Try the operation again. If the error occurs again, contact your next level of support.	
E302F8A7	Licensed Internal Code failure on the HMC. Contact your service provider.	
E302F8A8	Querying to see if the service firmware diff file is in memory did not return the proper number of elements in the vector. Try the operation again. If the error occurs again, contact your next level of support.	
E302F8A9	A general error occurred while rebooting. If another error occurs before this message, follow the action for that error. If this message occurs by itself, contact your next level of support.	
E302F8AA	An error occurred when attempting to copy the P-side flash memory to the T-side on the master service processor. Try the operation again. If the error occurs again, contact your next level of support.	
E302F8AB	An error occurred when attempting to copy the P-side flash memory to the T-side on the secondary service processor. Try the operation again. If the error occurs again, contact your next level of support.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F8AC to E302F8CF	Licensed Internal Code failure on the HMC. Contact your service provider.	
E302F8D0	An I/O error occurred while reading the fixpack image. Reboot the HMC and retry the operation. If the problem occurs again, consider replacing the disk drive in the HMC.	
E302F8D1	An error occurred while writing a firmware update file that was read from a fixpack to disk. Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.	
E302F8D2 to E302F8EF	Licensed Internal Code failure on the HMC. Contact your service provider.	
E302F8F0	An error occurred while surveying the IBM Web site. Verify that your LAN connections are set up properly and retry the operation. If the problem occurs again, contact your next level of support.	
E302F8F1	An exception occurred while surveying the IBM Web site. Verify that your LAN connections are set up properly and retry the operation. If the problem occurs again, contact your next level of support.	
E302F8F2	An exception occurred while copying the XML file to the cover letter during importation from the Web site. Verify that your LAN connections are set up properly and retry the operation. If the problem occurs again, contact your next level of support.	
E302F8F3	Two hour wait period exceeded for the updating of firmware on the service processor in the bulk power assembly. If another error occurs before this message, follow the action for that error. If this message occurs by itself, contact your next level of support.	
E302F8F4	An error occurred while surveying the IBM Web site. The file was not found at the Web site. Verify that the HMC connection to the IBM Web site is working by using the information center HELP links on the local HMC master console. Access the IBM Web site by using the links in information center that activate the Web browser on the HMC. If the HMC cannot connect to the IBM Web site, contact the network administrator for your installation to determine if a firewall or other network security process must be opened for the HMC to access the Internet. If the HMC is on a private network, the IBM Web site will not be available as a repository. Retry the operation again after you successfully access the IBM Web site. If the error occurs again, contact your next level of support.	
E302F8F5 to E302F8FF	Licensed Internal Code failure on the HMC. Contact your service provider.	
E302F900	The survey from an FTP site failed when the control program was not able to change the directory to that of the user. Verify that the FTP site directory specified is correct and that any firewall authentications were completed, if necessary, before performing the update. Try the operation again. If the problem occurs again, contact your next level of support.	

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F901	<p>A query of the current boot side of the secondary processor returned a null.</p> <p>Verify that the authentication passwords for the service processors are synchronized and that the TCP/IP addresses of the service processors are not in the HMC DHCP server's removed list. Use the Update Managed System Password field under the Server and Partition panels to reset the password if necessary. Use the restricted shell "mksysconn -o auto" command to reset the HMC DHCP server's removed list and reconnect the affected service processors. If the problem occurs again, contact your next level of support.</p>	
E302F902	<p>A query of the next boot side of the secondary processor returned a null.</p> <p>Verify that the authentication passwords for the service processors are synchronized and that the TCP/IP addresses of the service processors are not in the HMC DHCP server's removed list. Use the Update Managed System Password pulldown under the Server and Partition panels to reset the password if necessary. Use the restricted shell "mksysconn -o auto" command to reset the HMC DHCP server's removed list and reconnect the affected service processors. If the problem occurs again, contact your next level of support.</p>	
E302F903 to E302F90F	<p>Licensed Internal Code failure on the HMC.</p> <p>Contact your service provider.</p>	
E302F910	<p>An exception occurred when querying to find out if the bulk power assembly was N-mode.</p> <p>Verify that both the primary and secondary service processors for the bulk power assembly (or assemblies) are configured properly and available for communication with the HMC. This is a requirement. Retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F911	<p>A failure occurred when querying to find out if the bulk power assembly was N-mode.</p> <p>Verify that both the primary and secondary service processors for the bulk power assembly (or assemblies) are configured properly and available for communication with the HMC. This is a requirement. Retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F912	<p>One of the bulk power assemblies targeted for firmware update has N-mode power.</p> <p>Verify that both the primary and secondary service processors for the bulk power assembly (or assemblies) are configured properly and available for communication with the HMC. This is a requirement. Retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F913	<p>One of the bulk power assemblies targeted for firmware update has an auto-code download (ACDL) pending.</p> <p>A code update cannot be performed while a service processor in the bulk power assembly is running an auto-code download process. Depending on the number of FRUs being loaded, this process might take a significantly long time. After two hours, try the original operation again. If the failure occurs again, wait two hours and manually point the next re-IPL of the service processor to the "P" side by using the Flash Side Selection panels. Perform a "Disruptive Activate" using the Select advanced features panels. Wait two hours for that auto-code download to complete, then try the original operation again. If the problem occurs again, contact your next level of support.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F914	<p>An exception occurred when attempting to start the auto-code download (ACDL) on a bulk power assembly.</p> <ul style="list-style-type: none"> • For systems using HMC firmware before V5R2, contact your next level of support. • For systems using V5R2 (or newer) HMC firmware, do the following: <ol style="list-style-type: none"> 1. Choose Select advanced features. 2. Perform an Install and activate (implied Retrieve) Specific Level update to the current level of power firmware on the hard drive repository. (Choose Automatically Accept.) 3. Click Change Levels, and change None to the current level of power firmware. 4. Leave the Managed System code level as None, and then finish the code update. <p>If the problem occurs again, contact your next level of support.</p>	
E302F915	<p>A failure occurred when attempting to start the auto-code download (ACDL) on a bulk power assembly.</p> <ul style="list-style-type: none"> • For systems using HMC firmware before V5R2, contact your next level of support. • For systems using V5R2 (or newer) HMC firmware, do the following: <ol style="list-style-type: none"> 1. Choose Select advanced features. 2. Perform an Install and activate (implied Retrieve) Specific Level update to the current level of power firmware on the hard drive repository. (Choose Automatically Accept.) 3. Click Change Levels, and change None to the current level of power firmware. 4. Leave the Managed System code level as None, and then finish the code update. <p>If the problem occurs again, contact your next level of support.</p>	
E302F916	<p>An exception occurred when attempting to determine how many FRUs were completed during an auto-code download (ACDL).</p> <ul style="list-style-type: none"> • For systems using HMC firmware before V5R2, contact your next level of support. • For systems using V5R2 (or newer) HMC firmware, do the following: <ol style="list-style-type: none"> 1. Choose Select advanced features. 2. Perform an Install and activate (implied Retrieve) Specific Level update to the current level of power firmware on the hard drive repository. (Choose Automatically Accept.) 3. Click Change Levels, and change None to the current level of power firmware. 4. Leave the Managed System code level as None, and then finish the code update. <p>If the problem occurs again, contact your next level of support.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F917	<p>A failure occurred when attempting to determine how many FRUs were completed during an auto-code download (ACDL).</p> <ul style="list-style-type: none"> • For systems using HMC firmware before V5R2, contact your next level of support. • For systems using V5R2 (or newer) HMC firmware, do the following: <ol style="list-style-type: none"> 1. Choose Select advanced features. 2. Perform an Install and activate (implied Retrieve) Specific Level update to the current level of power firmware on the hard drive repository. (Choose Automatically Accept.) 3. Click Change Levels, and change None to the current level of power firmware. 4. Leave the Managed System code level as None, and then finish the code update. <p>If the problem occurs again, contact your next level of support.</p>	
E302F918	<p>The auto-code download (ACDL) took too long on one side of the bulk power assembly.</p> <ul style="list-style-type: none"> • For systems using HMC firmware before V5R2, contact your next level of support. • For systems using V5R2 (or newer) HMC firmware, do the following: <ol style="list-style-type: none"> 1. Choose Select advanced features. 2. Perform an Install and activate (implied Retrieve) Specific Level update to the current level of power firmware on the hard drive repository. (Choose Automatically Accept.) 3. Click Change Levels, and change None to the current level of power firmware. 4. Leave the Managed System code level as None, and then finish the code update. <p>If the problem occurs again, contact your next level of support.</p>	
E302F919	<p>The auto-code download (ACDL) began but did not complete successfully.</p> <p>Follow the actions listed for E302F918.</p>	
E302F91A	<p>An error occurred in the service processor support code during a query of the state of a service processor for a frame.</p> <p>Reboot the HMC and retry the operation. If the error occurs again, contact your next level of support.</p>	
E302F91B	<p>A failure occurred when attempting to query the state of the system unit after receiving an asynchronous report that the state had changed.</p> <p>Reboot the HMC and retry the operation. If the error occurs again, contact your next level of support.</p>	
E302F91C	<p>A failure occurred while copying the firmware from the T side to the P side after a successful update of the bulk power controller code.</p> <p>Perform an "Accept" operation using the Select advanced features panels. This operation also accepts the system unit code. If the problem occurs again, contact your next level of support.</p>	
E302F91D	<p>A failure occurred when trying to deactivate a bulk power assembly.</p> <p>Reboot the HMC and retry the operation. If the error occurs again, contact your next level of support.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F91E	Licensed Internal Code failure on the HMC. Contact your service provider.	
E302F91F	An exception occurred when trying to deactivate a bulk power assembly. Reboot the HMC and retry the operation. If the error occurs again, contact your next level of support.	
E302F920	An I/O error occurred when attempting to write the power FRU code levels to a file. Ensure the following: <ul style="list-style-type: none"> • That ample space exists in the file system that contains the /opt/ccfw directory • That the a user with root authority executes the following command: dlslic -e Frame*MTMS <p>Note: The dlslic command is a diagnostic aid that obtains ACDL status and creates the bpa.frus.lst file in /opt/ccfw/data directory. After you clear the file space, if necessary, execute the dlslic command again as a user with root authority. If the error occurs again, contact your next level of support.</p>	
E302F921	An I/O error occurred when attempting to close the file containing the Power FRU code levels. Perform the actions for error code E302 F920. If the error occurs again, contact your next level of support.	
E302F922	An exception occurred when attempting to set or release a lock on a bulk power adapter frame. Perform the actions for error code E302 F89F. If the error occurs again, contact your next level of support.	
E302F923	A failure occurred during a query of the current service processor failover state. <ul style="list-style-type: none"> • If another error occurs before this message, follow the action for that error. • If this message occurs during a code update Health Check, correct the condition that caused the Health Check to fail and retry the operation. • If this message occurs by itself, contact your next level of support. 	
E302F924	An exception occurred during the query of the current service processor failover state. <ul style="list-style-type: none"> • If another error occurs before this message, follow the action for that error. • If this message occurs during a code update Health Check, correct the condition that caused the Health Check to fail and retry the operation. • If this message occurs by itself, contact your next level of support. 	
E302F925	A failure occurred when attempting to set the service processor failover state with the chsyscfg command. <ul style="list-style-type: none"> • If another error occurs before this message, follow the action for that error. • If this message occurs during a code update Health Check, correct the condition that caused the Health Check to fail and retry the operation. • If this message occurs by itself, contact your next level of support. 	

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F926	An exception occurred when attempting to set the service processor failover state with the <code>chsyscfg</code> command. Follow the actions listed for E302F925.	
E302F927	An error occurred when attempting to acquire the service processor lock. Reboot the HMC and retry the operation. If the error occurs again, contact your next level of support.	
E302F928	A timeout error occurred when attempting to acquire the service processor lock. Check to see if a long running DLPAR operation is in progress to the same managed system. If there is, wait for that operation to complete and then perform a Disruptive Activate. If the error occurs again, contact your next level of support.	
E302F929	An error occurred when attempting to release the service processor lock. Reboot the HMC and retry the operation. If the error occurs again, contact your next level of support.	
E302F92A	Dynamic service processor failover has been disabled. Informational message.	
E302F92B	Dynamic service processor failover has been enabled. Informational message.	
E302F92C	A firmware update reboot of the secondary service processor placed it into a not connected state, but it did not clear that state in a reasonable amount of time. Contact the next level of support for assistance in getting the HMC to talk to the service processor again.	
E302F92D	During readiness checking, an exception occurred in the <code>readBPAPowerStatus()</code> method when attempting to determine the status of the power subsystem. Reboot the HMC and retry the operation. If the error occurs again, contact your next level of support.	
E302F92E	During readiness checking, a null value was returned by the <code>readBPAPowerStatus()</code> method when attempting to determine the status of the power subsystem. Reboot the HMC and retry the operation. If the error occurs again, contact your next level of support.	
E302F92F	During readiness checking, an exception occurred in the <code>getConnectionStatus()</code> method when attempting to determine the status of power subsystem connections. Reboot the HMC and retry the operation. If the error occurs again, contact your next level of support.	
E302F930	During readiness checking, a null value was returned by the <code>getConnectionStatus()</code> method when attempting to determine the status of power subsystem connections. Reboot the HMC and retry the operation. If the error occurs again, contact your next level of support.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F931	<p>During readiness checking, an exception occurred in the getState() method when attempting to determine the state of the power subsystem.</p> <p>Reboot the HMC and retry the operation. If the error occurs again, contact your next level of support.</p>	
E302F932	<p>During readiness checking, an exception occurred in the isNModePower() method when attempting to determine the state of the power subsystem.</p> <p>Reboot the HMC and retry the operation. If the error occurs again, contact your next level of support.</p>	
E302F933	<p>During readiness checking, an exception occurred in the getRedundantFspInfoExt() method when attempting to determine the state of the secondary service processor.</p> <p>Reboot the HMC and retry the operation. If the error occurs again, contact your next level of support.</p>	
E302F934	<p>During readiness checking, a null value was returned by the getRedundantFspInfoExt() method when attempting to determine the state of the secondary service processor.</p> <p>Reboot the HMC and retry the operation. If the error occurs again, contact your next level of support.</p>	
E302F935	<p>During readiness checking, an exception occurred in the getState() method when attempting to determine the state of the managed system.</p> <p>Reboot the HMC and retry the operation. If the error occurs again, contact your next level of support.</p>	
E302F936	<p>During readiness checking, an exception occurred in the getConnectionStatus() method when attempting to determine the status of service processor connections.</p> <p>Reboot the HMC and retry the operation. If the error occurs again, contact your next level of support.</p>	
E302F937	<p>During readiness checking, a null value was returned by the getConnectionStatus() method when attempting to determine the status of service processor connections.</p> <p>Reboot the HMC and retry the operation. If the error occurs again, contact your next level of support.</p>	
E302F938 to E302F9AA	<p>Licensed Internal Code failure on the HMC.</p> <p>Contact your service provider.</p>	
E302F9AB	<p>An error occurred during the processing for the update licensed internal code MES select level panel handler.</p> <p>Reboot the HMC and retry the operation. If the error occurs again, contact your next level of support.</p>	
E302F9AC	<p>An error occurred during the processing for the update licensed internal code main repository panel handler.</p> <p>Reboot the HMC and retry the operation. If the error occurs again, contact your next level of support.</p>	

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F9AD	An error occurred during the processing for the update licensed internal code FTPpanel panel handler. Reboot the HMC and retry the operation. If the error occurs again, contact your next level of support.	
E302F9AE	An error occurred during the processing for the update licensed internal code changeFTP panel handler. Reboot the HMC and retry the operation. If the error occurs again, contact your next level of support.	
E302F9AF	An error occurred during the processing for the advanced features task when trying to run a tasklet exit on the client to display the license panel. The task is terminated. Reboot the HMC and retry the operation. If the error occurs again, contact your next level of support.	
E302F9B0	An error occurred during the processing for the MES upgrade task when trying to run a tasklet exit on the client to display the license panel. The task is terminated. Reboot the HMC and retry the operation. If the error occurs again, contact your next level of support.	
E302F9B1	An error occurred during the processing for the change internal code wizard when trying to run a tasklet exit on the client to display the license panel. The task is terminated. Reboot the HMC and retry the operation. If the error occurs again, contact your next level of support.	
E302F9B2	Error during processing for the Change Internal Code Wizard Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.	
E302F9B3	Error during processing for an internal code method. Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.	
E302F9B4 to E302F9B6	Error during processing for an internal panel handler. Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.	
E302F9B7	Error during processing of the server side of the scheduleable update task. Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.	
E302F9B8	Error trying to perform processing in a hardware upgrade code path. Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.	
E302F9B9	Error during the main "service" processing for the server side of the hardware upgrade task. The task has been terminated. Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F9BA	<p>Error during the main processing for the client side of the hardware upgrade task. The task has been terminated.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9BB	<p>Error during the main processing for the server side of the hardware upgrade task.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9BC	<p>Error during the processing of the actual non disruptive firmware update task. The progress panel for the affected target is updated with error message. The task continues to execute.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9BD	<p>Error during the main "service" processing for the server side of the change internal code wizard subtasklet.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9BE	<p>Error during the main "service" processing for the server side of the change internal code wizard1 panel handler.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9BF	<p>Error during the main "service" processing for the server side of the change internal code wizard2 panel handler.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9C0	<p>Error during the main "service" processing for the server side of the change internal code wizard3 panel handler.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9C1	<p>Error during the main "service" processing for the server side of the change internal code wizard4 panel handler.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9C2	<p>Error during the main "service" processing for the server side of the change internal code wizard ceconcurrency panel handler.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9C3	<p>Error during the main "service" processing for the server side of the change internal code wizard cecdetails panel handler.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9C4	<p>Error during the main "service" processing for the server side of the change internal code wizard fix details panel handler.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F9C5	<p>Error during the main "service" processing for the server side of the change internal code wizard license panel handler.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9C6	<p>Error during the main "service" processing for the server side of the change internal code wizard leveledetails panel handler.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9C7	<p>Error during the main processing for the server side of the flash side selection task.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9C8	<p>Error during the main "service" processing for the server side of the advanced features subtasklet.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9C9	<p>Error during processing for the advanced features panel handler.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9CA	<p>Error during processing for the advanced features retrieve panel handler.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9CB	<p>Error during processing for the advanced features implied retrieve panel handler.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9CC	<p>Error during processing for the advanced features change levels panel handler.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9CD	<p>Error during processing for the advanced features select change levels panel handler.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9CE	<p>Error during processing for the advanced features install type panel handler.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9CF	<p>Error during processing for the advanced features fix details panel handler.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9D0	<p>Error during processing for the advanced features confirm panel handler.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F9D1	<p>Error during processing for the advanced features level details panel handler.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9D2	<p>Error during the main "service" processing for the server side of the change internal code task. The task is terminated.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9D3	<p>Error during processing change internal code MainPanel panel handler. The task is terminated.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9D4	<p>Error during processing change internal code MainRepos panel handler. The task is terminated.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9D5	<p>Error during processing change internal code InbandMessage panel handler. The task is terminated.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9D6	<p>Error during processing change internal code FtpPanel panel handler. The task is terminated.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9D7	<p>Error during processing change internal code ChangeFTP panel handler. The task is terminated.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9D8	<p>Error trying to assign values from a SysInfoEcInternalCodeData object.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9D9	<p>Error during the main processing for the server side of the system information task.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9DA	<p>Error from getting null presentation task parameters in the system information task.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9DB	<p>Error during the processing for the server side SysInfoEcTasklet system information subtask.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F9DC	<p>Error trying to do the main processing for the client side of the change internal code task. The task has been terminated.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9DD	<p>Error trying to do the main processing for the client side of the flash side selection task. The task has been terminated.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9DE	<p>Error trying to do the main processing for the client side of the non disruptive firmware update task. The task has been terminated.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9DF	<p>Error during the main processing for the server side of the advanced features subtask.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9E0	<p>Error during the main processing for the server side of the advanced targeting subtask.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9E1	<p>Error during the main processing for the server side of the Change Internal Code task. This could be the result of an exception being caught by the underlying tasklet infrastructure.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9E2	<p>Error during the main processing for the server side of the Nondisruptive Firmware Update task. This could be the result of an exception being caught by the underlying tasklet infrastructure.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9E3	<p>Error during the main processing for the server side of the Change Internal Code Wizard subtask. This could be the result of an exception being caught by the underlying tasklet infrastructure.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9E4	<p>Error trying to perform some processing in the Advanced Features Bean panelAction() method. The bean attempts to close the panel.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9E5	<p>Error trying to perform some processing in the Advanced Targeting for Frames Bean panelAction() method. The bean attempts to close the panel.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F9E6	Error trying to perform some processing in the Advanced Targeting for System Bean panelAction() method. The bean attempts to close the panel. Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.	
E302F9E7	Error in the select advanced targeting type bean panelAction method. This bean attempts to close the panel. Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.	
E302F9E8	Error in the CEC/power concurrency bean panelAction method. This bean attempts to close the panel. Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.	
E302F9E9	Error in the CEC/power level details bean panelAction method. This bean attempts to close the panel. Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.	
E302F9EA	Error in the change FTP directory bean panelAction method. This bean attempts to close the panel. Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.	
E302F9EB	Error in the specify levels bean panelAction method. This bean attempts to close the panel. Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.	
E302F9EC	Error in the advanced features confirm bean panelAction method. This bean attempts to close the panel. Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.	
E302F9ED	Error in the LIC details bean panelAction method. This bean attempts to close the panel. Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.	
E302F9EE	Error in the flash side selection bean panelAction method. This bean attempts to close the panel. Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.	
E302F9EF	Error in the FTP site access bean panelAction method. This bean attempts to close the panel. Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.	
E302F9F0	Error in the advanced features install and activate (implied retrieval) bean panelAction method. This bean attempts to close the panel. Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.	

E302

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F9F1	<p>Error in the inband configuration detected bean panelAction method. This bean attempts to close the panel.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9F2	<p>Error in the advanced features select installation type bean panelAction method. This bean attempts to close the panel.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9F3	<p>Error in the confirmation level details bean panelAction method. This bean attempts to close the panel.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9F4	<p>Error in the license agreement bean panelAction method. This bean attempts to close the panel.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9F5	<p>Error in the change internal code main bean panelAction method. This bean attempts to close the panel.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9F6	<p>Error in the change internal code main repos bean panelAction method. This bean attempts to close the panel.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9F7	<p>Error in the nondisruptive firmware update bean panelAction method. This bean attempts to close the panel.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9F8	<p>Error in the advanced features retrieve bean panelAction method. This bean attempts to close the panel.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9F9	<p>Error in the select advanced targeting frame choice bean panelAction method. This bean attempts to close the panel.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9FA	<p>Error in the advanced features select level bean panelAction method. This bean attempts to close the panel.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
E302F9FB	<p>Error in the system information bean panelAction method. This bean attempts to close the panel.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E302F9FC	Error in the change internal code wizard1 bean panelAction method. This bean attempts to close the panel. Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.	
E302F9FD	Error in the change internal code wizard2 bean panelAction method. This bean attempts to close the panel. Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.	
E302F9FE	Error in the change internal code wizard3 bean panelAction method. This bean attempts to close the panel. Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.	
E302F9FF	Error in the change internal code wizard4 bean panelAction method. This bean attempts to close the panel. Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.	
E302FA00	An error occurred while attempting to synchronize one service processor to the other during a repair and verify operation. Ensure that the entire repair and verify procedure executed correctly and that the new service processor is communicating properly. If the error continues to occur, contact your next level of support.	
E302FA01	An error occurred while attempting to determine which service processor is the source and which one is the destination for a repair and verify operation. Ensure that the entire repair and verify procedure executed correctly and that the new service processor is communicating properly. If the error continues to occur, contact your next level of support.	
E302FA02	An error occurred while attempting to create a targeted service processor object during a repair and verify operation. Ensure that the entire repair and verify procedure executed correctly and that the new service processor is communicating properly. If the error continues to occur, contact your next level of support.	
E302FA03 to E302FFFF	Licensed Internal Code failure on the HMC. Contact your service provider.	

(E303) Formatting media error codes

Table 1. (E303) Formatting media error codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E303300D	Format Media application had an error trying to display a format message panel on the screen. Perform the following steps: 1. Exit or Cancel the Format Media application. 2. Retry the operation	

E303

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E3033011	Format Media encountered a problem accessing the removable media it is trying to format. Perform the following steps: 1. Check the media to see if it is inserted correctly. 2. Retry the operation 3. If it still fails, the media being formatted may be defective. Try a different media.	

(E332) Licensed Internal Code error codes

Table 1. (E332) Licensed Internal Code error codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E3326601	The HMC failed to retrieve a platform system dump from the managed system. For details, refer to reference code B3036601.	
E33326602	The HMC failed to retrieve a dump from the service processor. For details, refer to reference code B3036601.	
E3326604	The HMC failed to retrieve a power subsystem dump from the managed system. For details, refer to reference code B3036604.	
E332FFFF	This error occurs when the HMC receives notification that a particular Java™ code string is corrupted. If you have the call home feature enabled, the failure information (including the JavaCore) will be transmitted to service and support. The support organization will examine the JavaCore file. Otherwise, you can retry the task.	

(E338) Licensed Internal Code error in guided maintenance in Service Focal Point

An error occurred during the initialization of the components required for performing guided maintenance from Service Focal Point.

Table 1. (E338) Licensed Internal Code error in Guided Maintenance in Service Focal Point

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E3380001	An error occurred during the initialization of the components required for performing guided maintenance from Service Focal Point.	NEXTLVL
E3380002	An error occurred during the initialization of the components required for performing guided maintenance from Service Focal Point.	NEXTLVL
E3380003	Licensed Internal Code failure on the Hardware Management Console (HMC). Contact your service provider.	
E3380004	Licensed Internal Code failure on the HMC. Contact your service provider.	

(E355) errors

Table 1. (E355) errors

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E3550037	Error initializing and or running a task. Depending on the type of exception, the task might terminate.	
E3550046	An uncaught exception has been caught by the thread group. An error log is created to determine which code failed to handle the exception. The secondary data block with ID "81" should be analyzed to determine the code that is in error.	
E355004D	An out of memory exception has been caught in the Java Virtual Machine (JVM). In addition to the log being created, a dump of the JVM has been forced for this condition as well. Although it is possible the out of memory condition will correct itself, the console application will be restarted by problem analysis when this problem is analyzed.	
E3550423	An uncaught exception has been caught. An error log is created to determine which code failed to handle the exception. The secondary data block with ID "81" should be analyzed to determine the code that is in error.	
E355049F	Exception caught in updateChildrenOfGroup (). Look at the logged exception for information about the error.	
E3550550	Error found in the EventSummary tasklet.	
E3550551	Error reading the log file.	
E3550790	Error with configuration data. An error log is created to determine which configuration data is in error.	
E3550792	Error persisting an object or reading an object from persistence.	
E3550813	Error launching a task. An error log is created to determine why the task cannot be launched.	
E3550830	An unexpected internal error occurred. Examine the actual exception to determine the source and severity of the problem.	
E3550832	There was an IO exception on the socket communication between a client and the manager. Anything that causes a socket communication exception can cause this log entry. The client or manager programs might have ended abruptly or the connection between the two might have been physically broken. Examine the actual IO exception and the environment in which it occurred to determine the source and severity of the exception.	
E3550911	An error occurred inside com.ibm.hwmca.base.userprof.UserProfTasklet UserProfTasklet	
E3550912	An error occurred inside com.ibm.hwmca.base.userprof.UserProfApp UserProfApp	
E3550913	Exception caught in getUIInfo(). Look at the logged HException for information about the error.	
E3550922	Exception caught in UserProfilesTasklet.	
E3550950	Error trying to do the main processing for server side of the settings task. This is the result of an exception being caught by the underlying Tasklet infrastructure. The settings task has been ended.	
E3550956	Error trying to do the main processing for client side of the network settings task. This is the result of an exception being caught by the underlying Tasklet infrastructure. The network settings task has been ended.	
E3550958	Error performing processing in the settings task action handler. The settings task will likely continue to run, but it may not function as expected.	

E355

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E3550959	Error performing processing in the network settings task action handler. The network settings task will likely continue to run, but it may not function as expected.	
E355095C	Error performing a firewall operation.	
E3550996	An error occurred when updating the console tasks performed information.	

(E35A) HMC code level

Table 1. (E35A) HMC code level error

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E35A003	The code did not function as designed. Retry the task.	
E35A003 9FEAA097	Your HMC restarts but the code it is running is Version 4 R4 or earlier. Check your HMC machine code level and update it to a minimum of V4.R5.0. For details, see Determining your HMC machine code version and release.	

(E36C) HMC scheduled task errors

Table 1. (E36C) HMC scheduled task errors

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E36C0101	An error occurred during tasklet processing. Contact your next level of support.	
E36C0103	An error occurred while working with persisted scheduled operations. Contact your next level of support.	

(E35F) Persistence error codes

Table 1. (E35F) Persistence error codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E35F000	Error creating a new PersistenceManager. This error is logged when the constructor of the PersistenceManager is called but the PersistenceManager object could not be initialized correctly. For example, the path to the persistent data store could not be created. The object is invalidated and subsequent calls are rejected. That is, an exception is thrown for any following calls to the PersistenceManager.	
E35F0010	Error reading an object by the PersistenceManager. This error is logged when during the read of an object an error occurs. The PersistenceManager cannot reconstitute an object from the persistent data store.	
E35F0011	Error decoding an object by the PersistenceManager. This error is logged when during the decoding of an object an error occurs (the error is usually an IOException). The PersistenceManager cannot reconstitute an object from the persistent data store.	
E35F0012	Error reconstituting an object by the PersistenceManager. This error is logged when during the reconstitution a class object was not found. The class object that was not found is the object describing the stored PersistentData or Persistable. The PersistenceManager cannot reconstitute an object from the persistent data store.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E35F0013	Error reconstituting an object by the PersistenceManager. This error is logged when during the reconstitution the required constructor to create a Persistable from PersistentData was not found. The PersistenceManager cannot reconstitute an object from the persistent data store.	
E35F0014	Error reconstituting an object by the PersistenceManager. This error is logged when during the reconstitution an unsupported version of the PersistenceManager code was detected. The object to be reconstituted was written by a different version of the PersistenceManager. The current code does not support this version. The PersistenceManager cannot reconstitute an object from the persistent data store.	
E35F0020	Error writing an object by the PersistenceManager. This error is logged when during the write of an object an error occurs. The PersistenceManager cannot reconstitute an object from the persistent data store.	
E35F0021	Error encoding an object by the PersistenceManager. This error is logged when during the encoding of an object an error occurs (the error is usually an IOException). The PersistenceManager cannot create the encoded form for an object.	
E35F0030	Error performing the saveUpgradeData method. This error is logged when during the saveUpgradeData task an error in the PersistenceManager occurs. The log contains additional information on the error.	
E35F0031	Error performing the restoreUpgradeData method. This error is logged when during the restoreUpgradeData task an error in the PersistenceManager occurs. The log contains additional information on the error.	
E35F0032	A parsing error occurred trying to parse the xml files representing deployment preferences. The parsing occurs the first time a call is made to <code>Deployment.getPreferences()</code> . Look in the trace for a description of the parsing error that occurred. The xml files reside in the directory named by the "deploymentPrefs" file control nickname.	

(E3CA) Error regarding a media device

Table 1. (E3CA) Error regarding a media device

E3CA

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E3CA026B	<p>An error occurred mounting a media device for one of the following cases:</p> <ul style="list-style-type: none"> • An unknown reason. • The device is mounted and cannot be unmounted. • The mount command reported an incorrect major or minor number <p>Perform the following steps:</p> <ol style="list-style-type: none"> 1. Try to determine which media device reported this failure. 2. Determine what specific task was being performed when the error occurred. If necessary, check the logs. 3. Check for entries in the /tmp/console/mediasvc/mediasvc.log or for .mount files in /tmp/console/mediasvc to determine which device failed and for which of the reasons previously listed reasons. If tracing was also running, there are also XMDA entries in the iqzdrac.trm file. 4. When you know which media device failed, determine whether there were problems with the removable media, including diskette, DVD, CD, or memory stick. 5. Retry the task with new or reformatted media to see if that solves the problem. 6. If the problem does not appear to be with removable media, perform tests on the media device to see whether the device is defective. <p>Note: The media services log file is stored in the /tmp folder and is lost when the HMC is rebooted.</p>	
E3CA026C	<p>An error occurred while trying to unmount a media device.</p> <ol style="list-style-type: none"> 1. Check the console log entry to see what exception was reported for this problem. Other than unexpected Java exceptions, the media device code reports this exception when it gets a non 0 return code from running the unmount media script: if it gets rc = 203, it reports a MediaDeviceException "runAsRoot setuid error. return code = 203". This means the unmount script could not be run with root privileges. Otherwise it reports an IOException "the unmount operation failed. return code = x" where x is the return code from the unmount script. 2. Try to determine which media device reported this failure. 3. Determine what specific task was being performed when the error occurred. 4. If necessary, check the logs. Check for entries in the /tmp/console/mediasvc/mediasvc.log or for .mount files in /tmp/console/mediasvc to determine which device failed and for which of the previously listed reasons. If tracing was also running, there are also XMDA entries in the iqzdrac.trm file. 5. When you know which media device failed, determine whether there were problems with the removable media, including diskette, DVD, CD, or memory stick. 6. Retry the task with new or reformatted media to see if that solves the problem. 7. If the problem does not appear to be with removable media, perform tests on the media device to see whether the device is defective. 8. If there is removable media in the device that cannot be removed (such as a DVD that will not eject), you might need to reboot the HMC to release that device and the media. Be sure to first save the /tmp/console/mediasvc/mediasvc.log before rebooting. <p>Note: The media services log file is stored in the /tmp folder and is lost when the HMC is rebooted.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E3CA0274	<p>An error occurred formatting a DVD. Perform the following steps:</p> <ol style="list-style-type: none"> 1. Check the console log entry to see if an exception was reported for this problem. Other than unexpected Java exceptions, the media device code reports this exception when it gets an error running the format dvd script and will report a MediaDeviceException "Failure to format media, unknown error occurred." 2. Check for entries in the /tmp/console/mediasvc/mediascvs.log to show details on how the format failed. If tracing was also running, there are also XMDA entries in the iqzdrac.trm file. 3. Try the format operation with a new or different DVD to see if the problem is due to the DVD media itself. Ensure that the new or different DVD is the same type of DVD as the one that failed to format. 4. If the problem does not appear to be with DVD media, perform tests on the media device to see whether the device is defective. 5. If there is DVD media in the DVD device that cannot be ejected, you might need to reboot the HMC to release that device and the media. Be sure to first save the /tmp/console/mediasvc/mediascvs.log before rebooting. <p>Note: The media services log file is stored in the /tmp folder and is lost when the HMC is rebooted.</p>	
E3CA0278	<p>An error occurred formatting a USB flash memory drive, most likely a USB memory stick. Perform the following steps:</p> <ol style="list-style-type: none"> 1. Check the console log entry to see what exception was reported for this problem. Other than unexpected Java exceptions, the media device code reports this exception when it gets an error running the format USB script and will report a MediaDeviceException "Failure to format media, unknown error occurred." 2. Check for entries in the /tmp/console/mediasvc/mediascvs.log for details on how the format failed. If tracing was also running, there are also XMDA entries in the iqzdrac.trm file. 3. Format a new or different USB memory stick to see if the problem is due to the media itself. 4. If the problem does not appear to be with the USB media itself, proceed with whatever the existing protocol is for performing tests on the specific media device itself to see whether the device itself is defective. <p>Note: The media services log file is stored in the /tmp folder and is lost when the HMC is rebooted.</p>	

E3CA

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E3CA027E	<p>An error occurred mounting a media device for one of the following cases:</p> <ul style="list-style-type: none"> • An unknown reason • The device is mounted and cannot be unmounted • The mount command reported an incorrect major or minor number <p>Perform the following steps:</p> <ol style="list-style-type: none"> 1. Try to determine which media device reported this failure. 2. Determine what specific task was being performed when the error occurred. If necessary, check the logs. 3. Check for entries in the /tmp/console/mediasvc/mediascv.log or for .mount files in /tmp/console/mediasvc to determine which device failed and for which of the previously listed reasons. If tracing was also running, there are also XMDA entries in the iqzdrac.trm file. 4. When you know which media device failed, determine whether there were problems with the removable media, including diskette, DVD, CD, or memory stick. 5. Retry the task with new or reformatted media to see if that solves the problem. 6. If the problem does not appear to be with removable media, perform tests on the media device to see whether the device is defective. <p>Note: The media services log file is stored in the /tmp folder and is lost when the HMC is rebooted.</p>	

(E3D4) Call home errors

Table 1. (E3D4) Call home errors

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E3D43100	Error occurred while obtaining from call home request all data required for RETAIN [®] .	
E3D43101	Error building the RETAIN login information for the call home request.	
E3D43102	Unsupported encoding error occurred while building the RETAIN login information for the call home request.	
E3D43103	Error returning result for the call home request.	
E3D43104	Error obtaining credentials for the call home request.	
E3D43105	Error obtaining data needed for credentials for the call home request.	
E3D43106	Successful credential password update operation.	
E3D43107	Successful system credential update operation.	
E3D43108	Successful new credential operation.	
E3D43108	Successful call home progress update.	
E3D4310A	Error occurred during submission of call home request.	
E3D4310B	Error occurred during file transfer associated with the call home request.	
E3D4310C	Error occurred during remote program execution associated with the call home request.	
E3D4310D	Error adding the rsfstatusListener for the call home request.	
E3D4310E	Error getting the credentials from persistence for the call home request.	
E3D4310F	Need to update the credentials with new machine information.	
E3D46F01	Error occurred while formatting the request parameters for RETAIN.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E3D46F10	Information RETAIN call home progressing.	
E3D46F21	Error occurred retrieving a file to send to RETAIN.	
E3D46F22	Error occurred compacting a file to be sent to RETAIN.	
E3D46F23	Error occurred while performing local file path query.	
E3D46F25	Error occurred reading a file to be sent to RETAIN.	
E3D46F2D	Error occurred writing a file sent from RETAIN.	
E3D46F2E	Error occurred executing a command issues from RETAIN.	
E3D46F2F	Error occurred writing a file sent from RETAIN.	
E3D46F40	Error occurred getting the call home authentication token using system credentials.	
E3D46F41	Error with system authentication using system credentials.	
E3D46F42	Error occurred communicating with service data receiver.	
E3D46F43	Information SDR communication progressing.	
E3D46F46	Error occurred connecting to RETAIN.	
E3D46F71	Error occurred while parsing the command from RETAIN for the call home request.	
E3D46F72	Error reported from RETAIN for the call home request.	
E3D46FB0	Error occurred sending or receiving from RETAIN.	
E3D46FFF	Internal error occurred while calling home. Remote connection services might have returned an error.	

(E3F0) Trace failure

Table 1. (E3F0) Trace failure

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E3F00004	<p>The 'Perform Console Trace' task located in Console Actions encountered an error that caused it to end. Perform the following steps:</p> <ol style="list-style-type: none"> 1. Retry the task. Note: Do not interrupt the task while it is running. 2. If the problem persists, send the iqyylog.log to your next level of support for analysis. <p>Note: To use the 'Perform Console Trace' task, you must be a member of the service representative role.</p>	

(E4xx) Licensed Internal Code error codes

The Hardware Management Console generates E4xx error codes when it encounters a Licensed Internal Code problem.

Table 1. (E4xx) Licensed Internal Code progress codes

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
E4xxxxxx	<p>Licensed Internal Code failure on the Hardware Management Console (HMC).</p> <p>Contact your service provider.</p>	NEXTLVL

Using system reference codes

System reference codes (SRCs) indicate a server hardware or software problem that can originate in hardware, in Licensed Internal Code, or in the operating system.

A server component generates an error code when it detects a problem. An SRC identifies the component that detected the error code and describes the error condition. Use the SRC information to identify a list of possible failing items and to find information about any additional isolation procedures.

SRC formats

SRCs are strings of either six or eight alphanumeric characters. The characters in the SRC typically represent the reference code type and the unit reference code (URC):

- For SRCs displayed on the control panel, the first four characters designate the reference code type and the second four characters designate the URC.
- For SRCs displayed on software displays, characters 1 through 4 of word 1 designate the reference code type and characters 5 through 8 of word 1 designate the URC.

Note: For partition firmware SRCs (AAxx, BAxx, and DAxx) and service processor SRCs (A1xx and B1xx), only the first two characters of the SRC indicate the necessary action. For partition firmware SRCs that begin with 2xxx, only the first character indicates the necessary action. In these cases, the term URC does not apply.

A reference code that is 6 or 8 characters long and appears in either of the following formats (xxxxxx or xxxxxxxx) is an SRC, unless it fits one of the following conditions:

- An 8-character code that begins with a C (except CB) or D (except DA) is a progress code
- An 8-character code that begins with an H is a Hardware Management Console (HMC) error code or message
- A 6-character code that begins with a zero (0) and does not include a hyphen is an HMC error code
- A code that begins with a number sign character (#) represents an AIX diagnostics message.

Using the list of reference codes

The list of system reference codes is organized in hexadecimal sequence, with numeric characters listed before alphabetic characters. Each entry in the list represents the first four characters (the reference code type) of the SRC. The entries link to more information, typically a table that lists the URCs that are associated with that reference code type.

Unless specified otherwise on a particular SRC page, the SRC tables contain the following columns:

- The Reference Code column contains numbers that represent the unit reference code (URC).
- The Description/Action column offers a brief description of the failure that this SRC represents. It may also contain instructions for continuing the problem analysis.
- The Failing Item column represents functional areas of the system unit. When available, the failing function code links to the FRU that contains this function for each specific system unit.

To use the list of system reference codes, complete the following steps:

1. Click the item in the list of system reference codes that matches the reference code type that you want to find.

Note: The SRC tables support only 8-character reference code formats. If the reference code provided contains only 4 or 6 characters, contact your next level of support for assistance.

2. When the SRC table appears, select the appropriate URC from the first column of the table. The tables list URCs in hexadecimal sequence, with numeric characters listed before alphabetic characters.

3. Perform the action indicated for the URC in the Description/Action column of the table.
4. If the table entry does not indicate an action or if performing the action does not correct the problem, exchange the failing items or parts listed in the Failing Item column in the order that they are listed. Use the following instructions to exchange failing items:

Note: Some failing items are required to be exchanged in groups until the problem is solved. Other failing items are flagged as mandatory exchange and must be exchanged before the service action is complete, even if the problem appears to have been repaired. For more information, see “Block replacement of FRUs.”

- Exchange the failing item listed first.
- If exchanging the first failing item does not correct the problem, reinstall the original item and exchange the next failing item listed.
- Continue to exchange and reinstall the failing items, one at a time, until the problem is corrected. If exchanging the failing items does not correct the problem, ask your next level of support for assistance.

For more information, refer to the List of system reference codes.

Block replacement of FRUs

Sometimes, multiple FRUs or procedures are called out for replacement by an SRC listed in the service action log (SAL). Each FRU or procedure has a priority, and procedures are always in priority order, from highest to lowest priority. Do the following:

1. Replace all high priority or mandatory FRU or procedure callouts at the same time (as a block).
2. If the problem persists after replacing or performing the high priority callouts, then replace or perform the medium priority FRU or procedure callouts one at a time unless a medium grouping priority is associated with the callout. A medium grouping priority, shown with an *A*, *B*, or *C*, means that you need to replace all the FRUs or procedures in that group at the same time (as a block).
3. Finally, if the problem still persists after replacing or performing all the medium priority callouts, then replace or perform the low priority FRU or procedure callouts one at a time.

The priorities of the FRU and procedure callouts are shown in the following ways, depending on how you view the SAL.SRC:

- Advanced System Management Interface (ASMI): The ASMI shows a priority with each callout in the log.
- Control panel: The control panel shows one of the following priorities with each callout:
 - H = High
 - M = Medium
 - MA = Medium group A
 - MB = Medium group B
 - MC = Medium group C
 - L = Low
- Hardware Management Console (HMC): In the Service Focal Point on the HMC, the view of the problem data for a serviceable event displays the FRU replacement priority as *High*, *Medium*, and so on.
- Service Action Log: In the SAL, the Part Action for the FRU in the view of the event shows the replacement priority. For more information about how to interpret the part action code, see Using the Service Action Log or use the help function for the SAL view.

List of service request numbers

The service request number (SRN) list is in numeric order.

List of service request numbers

For information about using this list of SRNs and about SRNs in general, see “Using service request numbers” on page 786.

If you do not find the reference code that you are looking for in this list, ask your next level of support for assistance.

- “Five-Digit SRNs 10104 through SSA03”
- “SRNs 101-000 through 59D-xxx” on page 543
- “SRNs 60B-xxx through 69D-203” on page 556
- “SRNs 700-xxx through 7C1-117” on page 584
- “SRNs 801-xxxx through 899-xxx” on page 608
- “SRNs 900-001 through xxxxxxxx” on page 627
- “SRNs A00-FF0 through A25-001” on page 673
- “SRNs 2502-101 through 25D0-108” on page 687
- “SRNs 2600-101 through 2D07-xxxx” on page 759
- “SCSD Devices SRNs (ssss-102 to ssss-640)” on page 784

Five-Digit SRNs 10104 through SSA03

Replace FRU parts in the order by which the “Failing Function Codes” are listed.

Abbreviation in Table	Definition
PAA	<p>P Adapter port number</p> <p>AA SSA Address</p>

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
10104			Format in progress. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive.
10112			Format Degraded. A format operation ended before it completed. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive.
1xxxx			Disk drive module error. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive. Note: In this SRN, an x represents a digit 0 through F.
20PAA			An open SSA loop was detected. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive and the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
21PAA to 29PAA			An SSA Threshold Exceeded link error was detected. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
2A002			Async code 02 was received. Probably, a software error occurred. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive and the <i>User's Guide and Maintenance Information</i> for the SSA adapter.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
2A003			Async code 03 was received. Probably, a software error occurred. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive and the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
2A004			Async code 04 was received. Probably, a software error occurred. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive and the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
2A005			Async code 05 was received. This code indicates that a disk drive module detected the loss of redundant power or cooling. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive.
2A006			Async code 06 was received. This code indicates that a disk drive module detected the loss of redundant power or cooling. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive.
2A106			Async code 06 was received. This code indicates that multiple disk drive modules detected loss of redundant power or cooling. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive.
2A206			A disk drive module detected that one of its SSA links failed the POST. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive.
2FFFF			An async code that is not valid was received. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive and the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
300C0			A disk drive module detected the loss of redundant power or cooling. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive.
301C0			Multiple disk drive modules detected the loss of redundant power or cooling. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive.
303FE			A disk drive Microcode Error was detected. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive and the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
303FF			An SCSI status that is not valid was received. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive and the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
31000			The disk drive was reset by the adapter. The disk drive might be going to fail. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive.
33PAA			Excessive link reconfigurations were detected. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.

10104 through SSA03

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
40000			The SSA adapter card failed. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
40004			A module on the adapter card failed. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
40008			A module on the adapter card failed. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
40016			A module on the adapter card failed. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
40032			A module on the adapter failed. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
40064			A module on the adapter card failed. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
40128			A module on the adapter card failed. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
41004			A module on the adapter card failed. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
41008			A module on the adapter card failed. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
41016			A module on the adapter card failed. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
41032			A module on the adapter failed. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
41064			A module on the adapter card failed. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
41128			A module on the adapter card failed. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
42000			A module on the adapter card failed. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
42200			Other adapters on the SSA loop are using levels of microcode that are not compatible. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
42500			An SSA adapter detected a failure in its fast-write cache. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
42510			Not enough DRAM available to run an SSA fast-write cache. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
42515			An SSA adapter is attempting to use its fast-write cache, but a fast-write cache card is not installed. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
42520			An SSA fast-write cache failure was detected. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
42521			An SSA fast-write cache option card failure was detected. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
42522			An SSA fast-write cache option card failure was detected. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
42523			A incorrect version number was detected in the fast-write cache option card. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
42524			A fast-write disk drive (or drives) contains unsynchronized data, but the fast-write cache option card cannot be detected. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
42525			A fast-write problem occurred. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
42526			This adapter does not support the SSA Fast-Write Cache Option. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
42527			A dormant SSA fast-write cache entry exists. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
42528			A fast-write SSA disk drive has been detected that was previously unsynchronized, but has since been configured on a different adapter. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
42529			The fast-write cache is disabled. The battery is charging. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
4252A			The supply voltage to the fast-write cache option card is low. The card has switched to Self-Refresh mode. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
4252B			The battery to the fast-write cache option card no longer has the power to maintain data. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.

10104 through SSA03

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
4252C			The battery to the fast-write cache option card needs to be exchanged for a new one. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
42540			Two-way fast-write cache is configured to operate only when both caches are available. One cache, however, is not available. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
43PAA			An SSA device on the loop is preventing the completion of the loop configuration. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive or to the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
44PAA			A disk drive module has a Failed status. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive or to the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
45PAA			The SSA adapter has detected an open SSA loop. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive or to the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
46000			A RAID array is in the Off-Line state because more than one disk drive is not available. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
46500			A member disk drive is missing from a SSA array or the original SSA adapter is not available. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
47000			An attempt was made to store in the SSA adapter the details of more than 32 RAID arrays. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
47500			Part of the RAID array data might have been lost. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
48000			The SSA adapter detected a link configuration that is not valid. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
48500			The array filter detected a link configuration that is not valid. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
48600			One member disk drive of an array is not on the SSA loop that contains the other member disk drives of the array. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
48700			Two or more member disk drives of an SSA array are on different loops. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
48750			An array is in the Off-Line state because the primary or secondary half of the array is not present. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
48755			The SSA adapter is unknown to the array. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
48760			An array is in the Off-Line state because the split/join procedure was not performed correctly. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
48800			The Invalid-Strip table is full. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
48900			An SSA array is not available; a multiple-device error occurred. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
48950			A disk drive caused an Array-Build operation to fail. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
49000			A RAID array is in the Degraded state. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
49100			A RAID array is in the Exposed state. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
49500			No hot-spare disk drives are available for an array that is configured for hot-spare disk drives. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
49510			Hot-spare configuration is not synchronized. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
49520			Hot-spare tuning has been lost. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
49530			The number of disk drives that remain in a hot-spare pool is less than the specified number. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
49540			Adapters that do not support hot-spare pools were detected. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
49700			The parity for the RAID array is not complete. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
49800			A different adapter was detected on each loop. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.

10104 through SSA03

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
4A100			The adapter cannot initialize an SSA disk drive. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
4BPAA			An SSA disk drive at PAA cannot be configured, because its UID cannot be read. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
50000			The SSA adapter failed to respond to the device driver. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
50001			A Data Parity error occurred. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
50002			An SSA adapter DMA error occurred. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
50004			A Channel Check occurred. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
50005			A software error occurred. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
50006			A Channel Check occurred. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
50007			The IOCC detected an internal error. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
50008			Unable to read or write the POS registers or PCI configuration space. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
50010			An SSA adapter or device-driver protocol error occurred. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
50012			The SSA adapter microcode hung. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
50013			The SSA adapter card failed. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
50100			An attempt was made to log an error against a pdisk that is not available to the using system. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
50200			Duplicate SSA cluster number detected. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
50411			SSA adapter detected a SS_SIC_CLASS1 error. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
50422			SSA adapter detected a SS_TIMEOUT error. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
50425			SSA adapter detected a SS_LINK_CONFIG_FAILED error. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
504xx			The SSA adapter microcode hung. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
60000			The SSA adapter is missing from the expected configuration. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
60200			The SSA unit cannot be turned on. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter or if the system service guide contains integrated SSA (without a distinct model type from the system unit itself), use the SRN table in the system unit's service guide to find this SRN and do the action indicated there.
60210			A disk drive module has its Check light On. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter or if the system service guide contains integrated SSA (without a distinct model type from the system unit itself), use the SRN table in the system unit's service guide to find this SRN and do the action indicated there.
60220			A fan-and-power-supply assembly has its Check light On. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter or if the system service guide contains integrated SSA (without a distinct model type from the system unit itself), use the SRN table in the system unit's service guide to find this SRN and do the action indicated there.
60230			The SSA unit has an unexpected Check light On. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter or if the system service guide contains integrated SSA (without a distinct model type from the system unit itself), use the SRN table in the system unit's service guide to find this SRN and do the action indicated there.
60240			An SSA configuration problem occurred. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter or if the system service guide contains integrated SSA (without a distinct model type from the system unit itself), use the SRN table in the system unit's service guide to find this SRN and do the action indicated there.
7xxxx			An SSA disk drive is missing from the expected configuration of the SSA loop. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive and to the <i>User's Guide and Maintenance Information</i> for the SSA adapter. Note: In this SRN, an x represents a digit 0 through F.

10104 through SSA03

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
8xxx			A Configuration Error occurred. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive. Note: In this SRN, an <i>x</i> represents a digit 0 through F.
D000			The using system cannot configure the disk drive module. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive.
D010			Unable to clear a disk drive module reservation. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive.
D0101			The disk drive module has been reserved since the diagnostics started. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive.
D020			The disk drive module timed out while the diagnostics were running. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive.
D030			The disk drive module failed the diagnostic test. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive.
D040			The disk drive module is Not Ready while the diagnostics are running. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive.
D045			The Format operation that was started on this disk drive module has not finished. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive.
D046			A Format operation was degraded. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive.
D400			The diagnostics cannot configure the SSA adapter. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
D410			The diagnostics cannot open the SSA adapter. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
D430			The diagnostics have detected an SSA adapter POST failure. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
D44xx			The diagnostics detected that the SSA adapter has corrupted microcode, but cannot download a new version of the microcode. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter. Note: In this SRN, an <i>x</i> represents a digit 0 through F.
D6PAA			A high-speed SSA link is running at low speed. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
DFFFF			Note: The description and action for this SRN are valid only if you ran the diagnostics on the SSA attachment. A command or parameter that was sent or received is not valid. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive and to the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
SSA01			There is not enough using-system memory available for this service aid to continue. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
SSA02			An unknown error occurred. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.
SSA03			The service aid was unable to open a hdisk. Action: Refer to the SRN table in the <i>User's Guide and Maintenance Information</i> for the SSA adapter.

SRNs 101-000 through 59D-xxx

Replace FRU parts in the order by which the "Failing Function Codes" are listed.

Note: Some SRNs in this chapter may have 4 rather than 3 digits after the dash (-).

Service Request Number	Failing Function Codes	Description and Action
101-000		The system hung while attempting to configure a device. Action: Use PFW1540: Problem isolation procedures.
101-185		A checkstop occurred. Action: Use PFW1540: Problem isolation procedures.
101-517		The system unit failed to IPL. Action: Use PFW1540: Problem isolation procedures.
101-518		CD-ROM read problems after boot. Note: The boot record was read from the CD-ROM disk. However, errors occurred when trying to mount the CD-ROM file system. This problem can be caused by SCSI device addressing, SCSI terminator, open PTC, SCSI cable, etc. Action: Go to SCSI Bus Problems.
101-521 to 101-538		The configuration manager detected an error. Action: If you are running the diagnostics from a disk, try running standalone diagnostics. If standalone diagnostics run correctly, the problem may be damaged data on the disk. Contact your software support facility. If a different problem occurs when you run standalone diagnostics, correct that problem. If you were running standalone at first, have the same problem running standalone diagnostics that you had when running diagnostics from disk, or these actions did not resolve the problem, go PFW1540: Problem isolation procedures.
101-544		Disk read problems occurred after booting. Note: The boot record was read from the disk. However, errors occurred when trying to open the disk drive. This problem can be caused by SCSI device addressing, SCSI terminator, open PTC, SCSI cable, etc. Action: Go to SCSI Bus Problems.

101-000 through 59D-xxx

Service Request Number	Failing Function Codes	Description and Action
101-551 to 101-557		The system hung while loading the software. This can be caused by a hardware or software problem. Action: Run the standalone diagnostics. If the standalone diagnostics run correctly, the problem may be a damaged disk data. Consider having the customer contact Software Support before reinstalling the operating system on the disk. Otherwise, go to Problem determination procedure. If a different problem occurs when you run the standalone diagnostics, correct that problem. If the standalone diagnostics still produces the same SRN, go to PFW1540: Problem isolation procedures.
101-558		There is not enough memory to execute diagnostics. Action: There must be a minimum of 16 MB of installed memory. If the system has 16 MB or more of memory installed, suspect a problem with a memory card.
101-559 to 101-599		The system halted while software was loading. This problem may be attributed to either hardware or software. Action: Use the standalone diagnostics if not yet used. If the same SRN is generated from standalone diagnostics, go to PFW1540: Problem isolation procedures for problem isolation. If a different problem occurs when you run the standalone diagnostics, correct that problem. If the SRN is not generated running standalone diagnostics, suspect a problem with the system's software.
101-662		An unexpected system interrupt. Action: Use PFW1540: Problem isolation procedures.
101-711 to 101-726	xxx	The system hung while trying to configure an unknown resource. Action: Run standalone diagnostics. Start at Problem determination procedure, Step 14. If you still get the same SRN, refer to Failing Function Code List and find the FFC that matches the last three digits of the SRN. Suspect the device adapter or device itself. If more than one adapter or device is installed, isolate the failing resource by removing the adapters or devices one at a time and checking if the system stops with the same value in the three-digit display. Note: xxx corresponds to the last three digits of the SRN.
101-727		The system hung while trying to configure an asynchronous adapter. Action: Use PFW 1540: Problem isolation procedures. Suspect a problem with one of the async adapters.
101-7C1	7C1	The system unit halted while configuring an audio subsystem. Action: Go to General problem resolution.
101-80c	80c	A potential problem with an SSA device exists. If the system has external SSA devices refer to the <i>SSA Adapters User's Guide and Maintenance Information</i> . If the system has internal SSA devices, go to the SSA MAP in either the system unit's service guide or user's guide.
101-840		An unexpected system interrupt. Action: Use PFW 1540: Problem isolation procedures. Suspect either a SCSI adapter or integrated SCSI if so equipped.
101-888	210 227 E10	The system does not IPL. Action: Go to General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
101-c32		The system hung while indicating that a direct-attached display was selected as the console. Action: Use PFW 1540: Problem isolation procedures. Suspect the graphics adapter being used for the display console first.
101-c33		The system hung while indicating that a TTY terminal is the system console. Action: Use PFW 1540: Problem isolation procedures. Suspect the graphics adapter being used for the display console first.
101-c70		A problem was encountered mounting the CD-ROM. Action: Use PFW 1540: Problem isolation procedures.
101-2004		Maximum memory size of partition is too large with respect to the current partition memory size. Action: Specify a maximum memory size for the partition no larger than 64 times the starting memory size of the partition.
101-2020		The system hung while trying to configure the Infiniband communication manager. This problem may be attributed to software. Action: Report this problem to the AIX support center.
101-2021		The system hung while trying to configure the Infiniband TCP/IP interface. This problem may be attributed to software. Action: Report this problem to the AIX support center.
101-xxxx	xxxx E10	The system hung while configuring a resource. The last three or four digits after the dash (-) identify the failing function code for the resource being configured. Action: Go to System hangs during resource configuration.
103-151	151	The time-of-day battery failed. Action: Go to General problem resolution.
109-200		The system crashed while being run by the customer. Action: Use Problem determination procedure, and get a new SRN.
110-101		The diagnostics did not detect an installed resource. Action: If this SRN appeared when running concurrent diagnostics, then run concurrent using the diag -a command, otherwise use Missing resource problem resolution.
110-908	908 C33 C36	The system halted while diagnostics were executing. Action: Go to General problem resolution.
110-921 to 110-926	xxx 812	The system halted while diagnostics were executing. Note: xxx corresponds to the last three digits of the SRN. Action: Go to General problem resolution.
110-935	935 812	The system halted while diagnostics were executing. Action: Go to General problem resolution.
110-946	946 221	The system halted while diagnostics were executing. Action: Go to General problem resolution.
110-xxxx	xxxx 221	The system halted while diagnostics were executing. Note: xxxx corresponds to the last three or four digits of the SRN following the dash (-). If your 110 SRN is not listed, substitute the last three or four digits of the SRN for xxxx, then proceed to the FFC table using the substituted digits as your FFC. Action: Go to General problem resolution.
111-107		A machine check occurred. Action: Go to Problem determination procedure.

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Service Request Number	Failing Function Codes	Description and Action
111-108		An encoded SRN was displayed. Action: Go to Problem determination procedure.
111-121		There is a display problem. Action: Do problem determination on the display. Action: Go to General problem resolution.
111-259		Cannot display readable information on the terminal. Action: Go to Console and keyboard problem resolution Entry 3.
111-725	725	Cannot display readable information on the display. Note: Suspect the display adapter attached to the console display. Action: Go to Console and keyboard problem resolution.
111-736	736 821	The keyboard does not respond. Action: Go to Console and keyboard problem resolution Entry 1.
111-78C	PCI adapter 227 E10	I/O bus problem. Action: Go to General problem resolution. Note: PCI adapter refers to the adapters you made note of when using Console and keyboard problem resolution.
111-82C		Cannot display readable information on the display. Action: Go to Console and keyboard problem resolution Entry 2.
111-921	921 821	The keyboard does not respond. Action: Go to Console and keyboard problem resolution Entry 1.
111-922	922 821	The keyboard does not respond. Action: Go to Console and keyboard problem resolution Entry 1.
111-923	923 821	The keyboard does not respond. Action: Go to Console and keyboard problem resolution Entry 1.
111-947	221	System beeper not functioning correctly. Action: Go to General problem resolution.
111-999	210	System does not perform a soft reset. Action: Go to General problem resolution.
199-102	199	A critical failure has occurred on an undefined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-103	199	Non-critical failure has occurred on an undefined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-104	199	An unrecoverable failure has occurred on an undefined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-122	152	A critical power supply failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-123	152	A non-critical power supply failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-124	152	An unrecoverable power supply failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-132	166 199	A critical fan failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-133	166 199	A non-critical fan failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-134	166 199	An unrecoverable fan failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.

Service Request Number	Failing Function Codes	Description and Action
199-148	166 199	The enclosure indicates a temperature threshold warning. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-149	166 199	The enclosure indicates a temperature threshold failure. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-152	199	A critical repeater card failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-153	199	A non-critical repeater card failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-154	199	An unrecoverable repeater card failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-162	199	A critical VPD module failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-163	199	A non-critical VPD module failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-164	199	An unrecoverable VPD module failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-172	199	A critical enclosure services failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-173	199	A non-critical enclosure services failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-174	199	An unrecoverable enclosure services failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-182	199	A critical failure has occurred on a user defined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-183	199	A non-critical failure has occurred on a user defined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-184	199	An unrecoverable failure has occurred on a user defined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-192	199	A critical failure has occurred on a user defined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-193	199	A non-critical failure has occurred on a user defined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-194	199	An unrecoverable failure has occurred on a user defined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-201	199 891	Device configuration error. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-202	199 891	The enclosure failed to open. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-203	199 891	The enclosure failed to return inquiry data. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-204	152 166	There is a critical power supply or fan failure. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
199-205	152 166	There is a redundant power supply or fan failure. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2E6-101	221	Enhanced error handling failure on the bus. Action: Go to General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
2E6-102	293	Enhanced error handling failure on a PCI-PCI Bridge. Action: Go to General problem resolution.
2E6-103	2E6 221	Enhanced error handling failure on the adapter. Action: Go to General problem resolution.
2E6-212	2E6	FIFO empty bit set. Action: Go to General problem resolution.
2E6-213	2E6	FIFO empty bit clear. Action: Go to General problem resolution.
2E6-214	2E6	FIFO full bit set. Action: Go to General problem resolution.
2E6-215	2E6	FIFO full bit clear. Action: Go to General problem resolution.
2E6-216	2E6	FIFO data miscompare. Action: Go to General problem resolution.
2E6-217	2E6	SCSI FIFO data miscompare. Action: Go to General problem resolution.
2E6-218	2E6	SCSI FIFO underflow. Action: Go to General problem resolution.
2E6-219	2E6	SCSI parity error. Action: Go to SCSI bus problems.
2E6-220	2E6	SCSI FIFO flags error. Action: Go to General problem resolution.
2E6-221	2E6 221	Miscompare during the write/read of the configuration register. Action: Go to General problem resolution.
2E6-222	2E6	Error during the write/read of the memory register. Action: Go to General problem resolution.
2E6-223	2E6	Miscompare during the write/read of the memory I/O register. Action: Go to SCSI Bus Problems.
2E6-224	2E6 221	SCSI configuration register read or write error. Action: Go to General problem resolution.
2E6-225	2E6	Adapter POST failed. Action: Go to General problem resolution.
2E6-226		SCSI wrap or PTC failure. Action: Go to SCSI Bus Problems.
2E6-227	2E6 221	SCSI adapter test failure. Action: Go to General problem resolution.
2E6-230		Arbitration test failed. Action: Go to SCSI Bus Problems.
2E6-231		Function could not complete. Action: Go to SCSI Bus Problems.
2E6-232		SCSI bus data miscompare. Action: Go to SCSI Bus Problems.
2E6-240		No terminal power. Action: Go to SCSI Bus Problems.
2E6-242		SCSI bus problem. Action: Go to SCSI Bus Problems.

Service Request Number	Failing Function Codes	Description and Action
2E6-301	2E6 221	The parent device open failed. Action: Go to General problem resolution.
2E6-701	2E6	Error log analysis indicates a PCI SCSI adapter failure. Action: Go to General problem resolution.
2E6-801		Error log analysis indicates a terminator problem. Action: Run the diagnostics on the adapter in system verification mode. If an SRN is reported, use the SRN to resolve the problem. If an SRN is not reported, use the SCSI service hints in General SCSI configuration checks to resolve the problem.
2E6-802		Error log analysis indicates that multiple attempts to reset the SCSI bus have timed out. Action: Run the diagnostics on the adapter in system verification mode. If an SRN is reported, use the SRN to resolve the problem. If an SRN is not reported, use the SCSI service hints in General SCSI configuration checks to resolve the problem.
2E6-803		Error log analysis indicates that multiple SCSI bus errors have occurred. Action: Run the diagnostics on the adapter in system verification mode. If an SRN is reported, use the SRN to resolve the problem. If an SRN is not reported, use the SCSI service hints in General SCSI configuration checks to resolve the problem.
2E7-101	221	Enhanced error handling failure on the bus. Action: Go to General problem resolution.
2E7-102	293	Enhanced error handling failure on a PCI-PCI Bridge. Action: Go to General problem resolution.
2E7-103	2E7 221	Enhanced error handling failure on the adapter. Action: Go to General problem resolution.
2E7-212	2E7	FIFO empty bit set. Action: Go to General problem resolution.
2E7-213	2E7	FIFO empty bit clear. Action: Go to General problem resolution.
2E7-214	2E7	FIFO full bit set. Action: Go to General problem resolution.
2E7-215	2E7	FIFO full bit clear. Action: Go to General problem resolution.
2E7-216	2E7	FIFO data miscompare. Action: Go to General problem resolution.
2E7-217	2E7	SCSI FIFO data miscompare. Action: Go to General problem resolution.
2E7-218	2E7	SCSI FIFO underflow. Action: Go to General problem resolution.
2E7-219		SCSI parity error. Action: Go to SCSI Bus problems.
2E7-220	2E7	SCSI FIFO flags error. Action: Go to General problem resolution.
2E7-221	2E7 221	Miscompare during the write/read of the configuration register. Action: Go to General problem resolution.
2E7-222	2E7	Error during the write/read of the memory register. Action: Go to General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
2E7-223	2E7	Miscompare during the write/read of the memory I/O register. Action: Go to SCSI Bus problems.
2E7-224	2E7 221	SCSI configuration register read or write error. Action: Go to General problem resolution.
2E7-225	2E7	Adapter POST failed. Action: Go to General problem resolution.
2E7-226		SCSI wrap or PTC failure. Action: Go to SCSI Bus problems.
2E7-227	2E7 221	SCSI adapter test failure. Action: Go to General problem resolution.
2E7-230		Arbitration test failed. Action: Go to SCSI Bus problems.
2E7-231		Function could not complete. Action: Go to SCSI Bus problems.
2E7-232		SCSI bus data miscompare. Action: Go to SCSI Bus problems.
2E7-240		No terminal power. Action: Go to SCSI Bus problems.
2E7-242		SCSI bus problem. Action: Go to SCSI Bus problems.
2E7-301	2E7	Configuration open failed for parent bus. Action: Go to General problem resolution.
2E7-701	2E7	Error log analysis indicates a PCI SCSI adapter failure. Action: Go to General problem resolution.
2E7-801		Error log analysis indicates a terminator problem. Action: Run the diagnostics on the adapter in system verification mode. If an SRN is reported, use the SRN to resolve the problem. If an SRN is not reported, use the SCSI service hints in General SCSI configuration checks to resolve the problem.
2E7-802		Error log analysis indicates that multiple attempts to reset the SCSI bus have timed out. Action: Run the diagnostics on the adapter in system verification mode. If an SRN is reported, use the SRN to resolve the problem. If an SRN is not reported, use the SCSI service hints in General SCSI configuration checks to resolve the problem.
2E7-803		Error log analysis indicates that multiple SCSI bus errors have occurred. Action: Run the diagnostics on the adapter in system verification mode. If an SRN is reported, use the SRN to resolve the problem. If an SRN is not reported, use the SCSI service hints in General SCSI configuration checks to resolve the problem.
2EF-101	751	Post indicates an adapter failure. Action: Go to General problem resolution.
440-xxx to 443-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
444-101	2C3 444	External wrap test failed on port 0. Action: Go to MAP 0210: General problem resolution.
444-102	2C3 444	External wrap test failed on port 1. Action: Go to MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
444-103	227	Enhanced error handling failure on bus. Action: Go to MAP 0210: General problem resolution.
444-104	227	Enhanced error handling failure on Eads chip. Action: Go to MAP 0210: General problem resolution.
444-105	444	Enhanced error handling failure on adapter. Action: Go to MAP 0210: General problem resolution.
444-106	776 646	Enhanced error handling failure on bus. Action: Go to MAP 0210: General problem resolution.
444-107	776 646	EEH failure on Eads chip. Action: Go to MAP 0210: General problem resolution.
444-108	776 646	Enhanced error handling failure on adapter. Action: Go to MAP 0210: General problem resolution.
444-201	444 227	Internal adapter test failed. Action: Go to MAP 0210: General problem resolution.
444-202	444 227	External wrap test failed on port 0. Action: Go to MAP 0210: General problem resolution.
444-203	444 227	External wrap test failed on port 1. Action: Go to MAP 0210: General problem resolution.
444-204	2C3 444	External wrap test failed on port 0. Action: Go to MAP 0210: General problem resolution.
444-205	2C3 444	External wrap test failed on port 1. Action: Go to MAP 0210: General problem resolution.
444-206	2C3 444 software	External wrap test failed on port 0. Action: Go to MAP 0210: General problem resolution.
444-207	2C3 444 software	External wrap test failed on port 1. Action: Go to MAP 0210: General problem resolution.
444-208	444 227	Enhanced error handling failure opening the adapter. Action: Go to MAP 0210: General problem resolution.
444-301	444 227 software	Internal adapter test failed. Action: Go to MAP 0210: General problem resolution.
444-302	444 227 software	External wrap test failed on port 0. Action: Go to MAP 0210: General problem resolution.
444-303	444 227 software	External wrap test failed on port 1. Action: Go to MAP 0210: General problem resolution.
444-304	2C3 444 software	External wrap test failed on port 0. Action: Go to MAP 0210: General problem resolution.
444-305	2C3 444 software	External wrap test failed on port 1. Action: Go to MAP 0210: General problem resolution.
444-700	444 software	Error log analysis indicates a hardware problem. Action: Go to MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
444-701	444 227	Error log analysis indicates that this adapter has failed to initialize due to enhanced error handling errors. Action: Go to MAP 0210: General problem resolution.
446-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
447-101	447	The Fibre Channel Adapter configuration failed. Action: Go to MAP 0210: General problem resolution.
447-102	447	The Reset test failed. Action: Go to MAP 0210: General problem resolution.
447-103	447	The Register test failed. Action: Go to MAP 0210: General problem resolution.
447-104	447	The SRAM test failed. Action: Go to MAP 0210: General problem resolution.
447-105	447	The Internal Wrap test failed. Action: Go to MAP 0210: General problem resolution.
447-106	447	Gigabaud Link Module (GLM) Wrap Test Failure. Action: Go to MAP 0210: General problem resolution.
447-107	447	The External Wrap test failed. Action: Go to MAP 0210: General problem resolution.
447-109	221	Enhanced Error Handling Failure on EADs chip. Action: Go to MAP 0210: General problem resolution.
447-110	447	Enhanced Error Handling Failure on adapter. Action: Go to MAP 0210: General problem resolution.
447-201	447 221	The Configuration Register test failed. Action: Go to MAP 0210: General problem resolution.
447-202	447 221	The Interrupt test failed. Action: Go to MAP 0210: General problem resolution.
447-203	447 221	The PCI Wrap test failed. Action: Go to MAP 0210: General problem resolution.
447-204	447 221	The DMA test failed. Action: Go to MAP 0210: General problem resolution.
447-205	447 221	I/O error on a read/write operation. Action: Go to MAP 0210: General problem resolution.
447-701	447 221	Error log analysis indicates that an error has occurred with the adapter. Action: Go to MAP 0210: General problem resolution.
447-703	447	Error log analysis indicates that an unknown adapter error has occurred. Action: Go to MAP 0210: General problem resolution.
447-704	447	Error log analysis indicates that an adapter error has occurred. Action: Go to MAP 0210: General problem resolution.
447-705	447	A parity error has been detected. The adapter must be replaced immediately. Failure to do so could result in data being read or written incorrectly. Action: Go to MAP 0210: General problem resolution.
447-706	447	A fatal hardware error has occurred. This adapter was successfully taken offline. It will remain offline until reconfigured or the system is rebooted. This adapter must be replaced and not brought back online. Failure to adhere to this action could result in data being read or written incorrectly or in the loss of data.

Service Request Number	Failing Function Codes	Description and Action
451-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
453-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
458-110	458	The Reserve command failed. Action: Use MAP 0210: General problem resolution.
458-120	458	The Inquiry command failed. Action: Use MAP 0210: General problem resolution.
458-130	458 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
458-135	458 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
458-140	458	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
458-150	458 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
458-160	458 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
458-169	458 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
458-170	458 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
458-180	458 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
458-185	458 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
458-190	458	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
458-200	458 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
458-210	458 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
458-220	458	The Release command failed. Action: Use MAP 0210: General problem resolution.
458-230	458	The Request Sense command failed. Action: Use MAP 0210: General problem resolution.
458-240	458	The Openx command failed. Action: Use MAP 0210: General problem resolution.
458-300	458 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
458-310	B88 458 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
458-320	458 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
458-411 to 458-423	458 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
458-511 to 458-523	458 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
458-611 to 458-623	458 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
458-711 to 458-723	458 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.
459-110	459	The Reserve command failed. Action: Use MAP 0210: General problem resolution.
459-120	459	The Inquiry command failed. Action: Use MAP 0210: General problem resolution.
459-130	459 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
459-135	459 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
459-140	459	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
459-150	459 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
459-160	459 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
459-169	459 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
459-170	459 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
459-180	459 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
459-185	459 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
459-190	459	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
459-200	459 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
459-210	459 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
459-220	459	The Release command failed. Action: Use MAP 0210: General problem resolution.
459-230	459	The Request Sense command failed. Action: Use MAP 0210: General problem resolution.
459-240	459	The Openx command failed. Action: Use MAP 0210: General problem resolution.
459-300	459 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
459-310	B88 459 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
459-320	459 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
459-411 to 459-423	459 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.
459-511 to 459-523	459 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
459-611 to 459-623	459 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
459-711 to 459-723	459 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.
45d-110	45d	The Reserve command failed. Action: Use MAP 0210: General problem resolution.
45d-120	45d	The Inquiry command failed. Action: Use MAP 0210: General problem resolution.
45d-130	45d media	The Load command failed. Action: Use MAP 0210: General problem resolution.
45d-135	45d media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
45d-140	45d	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
45d-150	45d media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
45d-160	45d media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
45d-169	45d media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
45d-170	45d B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
45d-180	45d media	The Load command failed. Action: Use MAP 0210: General problem resolution.
45d-185	45d media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
45d-190	45d	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
45d-200	45d media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
45d-210	45d B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
45d-220	45d	The Release command failed. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
45d-230	45d	The Request Sense command failed. Action: Use MAP 0210: General problem resolution.
45d-240	45d	The Openx command failed. Action: Use MAP 0210: General problem resolution.
45d-300	45d software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
45d-310	B88 45d software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
45d-320	45d media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
45d-411 to 45d-423	45d B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.
45d-511 to 45d-523	45d B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
45d-611 to 45d-623	45d B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
45d-711 to 45d-723	45d B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.
541-xxx	541	A DLT tape device problem has occurred. Action: Refer to the DLT tape device documentation.
542-xxx	542	An 8mm 60GB tape device problem has occurred. Action: Refer to the 8mm 60GB tape device documentation.
56B-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
56D-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
57B-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
57D-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
58B-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
58D-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
59B-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
59D-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).

SRNs 60B-xxx through 69D-203

Replace FRU parts in the order by which the "Failing Function Codes" are listed.

Note: Some SRNs in this chapter may have 4 rather than 3 digits after the dash (-).

Service Request Number	Failing Function Codes	Description and Action
60B-xxx		See SCSI Devices SRNs.
601-xxx		See SCSI Devices SRNs.

Service Request Number	Failing Function Codes	Description and Action
613-xxx	613	An 8-mm 80-GB VXA-2 tape device problem has occurred. Action: Use MAP 0210: General problem resolution.
61B-xxx		See SCSI Devices SRNs.
61D-xxx		See SCSI Devices SRNs.
61E-xxx		See SCSI Devices SRNs.
621-xxx		See SCSI Devices SRNs.
623-xxx		See SCSI Devices SRNs.
624-xxx		See SCSI Devices SRNs.
62D-xxx		See SCSI Devices SRNs.
62E-xxx		See SCSI Devices SRNs.
636-101	636	EPROM test failure. Action: Use MAP 0210: General problem resolution.
636-102	636	Adapter SDRAM failure. Action: Use MAP 0210: General problem resolution.
636-103	636	Adapter checksum failure. Action: Use MAP 0210: General problem resolution.
636-104	636	Adapter memory test failure. Action: Use MAP 0210: General problem resolution.
636-105	636	Adapter buffer test failure. Action: Use MAP 0210: General problem resolution.
636-106	636	Adapter cache test failure. Action: Use MAP 0210: General problem resolution.
636-107	636	Internal loop-back test failure. Action: Use MAP 0210: General problem resolution.
636-108	636	External wrap test failure. Action: Use MAP 0210: General problem resolution.
636-109	221	Enhanced error handling failure on the bus. Action: Use MAP 0210: General problem resolution.
636-110	221	Enhanced error handling failure on the Eads chip. Action: Use MAP 0210: General problem resolution.
636-111	636	Enhanced error handling failure on the adapter. Action: Use MAP 0210: General problem resolution.
636-201	636 221	Hardware failure opening adapter. Action: Use MAP 0210: General problem resolution.
636-202	636 221	Interrupt test failure. Action: Use MAP 0210: General problem resolution.
636-203	636 221	Adapter DMA test failure. Action: Use MAP 0210: General problem resolution.
636-204	636 221	Enhanced error handling failure opening the adapter. Action: Use MAP 0210: General problem resolution.
636-701	636	ELA indicates an I/O failure on the adapter. Action: Use MAP 0210: General problem resolution.
638-xxx		See SCSI devices SRNs ssss-102 through ssss-640.
639-xxx		See SCSI devices SRNs ssss-102 through ssss-640.

60B-xxx through 6C9-600

Service Request Number	Failing Function Codes	Description and Action
63A-xxx to 63F-xxx		See SCSI devices SRNs ssss-102 through ssss-640.
640-xxx		See SCSI devices SRNs ssss-102 through ssss-640.
643-xxx		See SCSI devices SRNs ssss-102 through ssss-640.
644-xxx		See SCSI devices SRNs ssss-102 through ssss-640.
646-101	D46	External Test Failure. Action: Use MAP 0210: General problem resolution.
646-102	240	External Test Failure. Action: Use MAP 0210: General problem resolution.
646-103	646	I/O Test Failure. Action: Use MAP 0210: General problem resolution.
646-104	646 221	Adapter On-card Test Failure. Action: Use MAP 0210: General problem resolution.
646-105	646	Wrap Test Failure. Action: Use MAP 0210: General problem resolution.
646-106	646	Enhanced Error Handling failure on bus. Action: Use MAP 0210: General problem resolution.
646-107	646	EEH failure on PCI-PCI bridge chip. Action: Use MAP 0210: General problem resolution.
646-108	646	Enhanced Error Handling failure on adapter. Action: Use MAP 0210: General problem resolution.
646-201	646 221	Configuration Register Test Failure. Action: Use MAP 0210: General problem resolution.
646-202	646 221	Wrap Test Failure. Action: Use MAP 0210: General problem resolution.
646-204	D46 240	External Test Failure. Action: Use MAP 0210: General problem resolution.
646-205	D46 646	External Test Failure. Action: Run advanced diagnostics with wrap test for this resource to obtain a correct problem resolution.
646-206	240 646	External Test Failure. Action: Run advanced diagnostics with wrap test for this resource to obtain a correct problem resolution.
646-302	240 D46 221	External Test Failure. Action: Run advanced diagnostics with wrap test for this resource to obtain a correct problem resolution.
646-303	D46 646 221	External Test Failure. Action: Run advanced diagnostics with wrap test for this resource to obtain a correct problem resolution.
646-401	240 D46 646 221	External Test Failure. Action: Run advanced diagnostics with wrap test for this resource to obtain a correct problem resolution. Use MAP 0210: General problem resolution.
646-701	646	Error log analysis indicates that an adapter error has occurred. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
646-702	646	Error log analysis indicates that an adapter check has occurred. Action: Use MAP 0210: General problem resolution.
646-703	646 221	Error log analysis indicates that a DMA failure has occurred. Action: Use MAP 0210: General problem resolution.
646-704	646 221	Error log analysis indicates that a PCI Bus error has occurred. Action: Use MAP 0210: General problem resolution.
646-705	646 221	Error log analysis indicates that a Programmed I/O error has occurred. Action: Use MAP 0210: General problem resolution.
646-706	646	ELA indicates a command write failure occurred. Action: Use MAP 0210: General problem resolution.
646-707	646	ELA indicates an internal adapter error has occurred. Action: Use MAP 0210: General problem resolution.
64A-xxx to 64F-xxx		See SCSI devices SRNs ssss-102 through ssss-640.
650-xxx	650	Disk drive configuration failed. Action: Use MAP 0210: General problem resolution.
651-140	165 221	Display character test failed. Action: Use MAP 0210: General problem resolution
657-001	software 657	Software error. Action: Use MAP 0210: General problem resolution.
657-002	657 software	Adapter failure. Action: Use MAP 0210: General problem resolution.
657-003	657 227	Adapter failure. Action: Use MAP 0210: General problem resolution.
657-004	657 Monitor/ Cable	Display failure. Action: Use MAP 0210: General problem resolution.
657-005	657 227 Monitor/ Cable	Adapter failure. Action: Use MAP 0210: General problem resolution.
65A-xxx to 65F-xxx		See SCSI devices SRNs ssss-102 through ssss-640.
662-101	221	Enhanced error handling failure on the bus. Action: Use MAP 0210: General problem resolution.
662-102	293	Enhanced error handling failure on a PCI-PCI Bridge. Action: Use MAP 0210: General problem resolution.
662-103	662 221	Enhanced error handling failure on the adapter. Action: Use MAP 0210: General problem resolution.
662-212	662	FIFO empty bit set. Action: Use MAP 0210: General problem resolution.
662-213	662	FIFO empty bit clear. Action: Use MAP 0210: General problem resolution.
662-214	662	FIFO full bit set. Action: Use MAP 0210: General problem resolution.

60B-xxx through 6C9-600

Service Request Number	Failing Function Codes	Description and Action
662-215	662	FIFO full bit clear. Action: Use MAP 0210: General problem resolution.
662-216	662	FIFO data miscompare. Action: Use MAP 0210: General problem resolution.
662-217	662	SCSI FIFO data miscompare. Action: Use MAP 0210: General problem resolution.
662-218	662	SCSI FIFO underflow. Action: Use MAP 0210: General problem resolution.
662-219		SCSI parity error. Action: Go to SCSI Bus Problems.
662-220	662	SCSI FIFO flags error. Action: Use MAP 0210: General problem resolution.
662-221	662 221	Miscompare during the write/read of the configuration register. Action: Use MAP 0210: General problem resolution.
662-222	662	Error during the write/read of the memory register. Action: Use MAP 0210: General problem resolution.
662-223	662	Miscompare during the write/read of the memory I/O register. Action: Go to SCSI Bus Problems.
662-224	662 221	SCSI configuration register read or write error. Action: Use MAP 0210: General problem resolution.
662-225	662	Adapter POST failed. Action: Use MAP 0210: General problem resolution.
662-226		SCSI wrap or PTC failure. Action: Go to SCSI Bus Problems.
662-227	662 221	SCSI adapter test failure. Action: Use MAP 0210: General problem resolution.
662-230		Arbitration test failed. Action: Go to SCSI Bus Problems.
662-231		Function could not complete. Action: Go to SCSI Bus Problems.
662-232		SCSI bus data miscompare. Action: Go to SCSI Bus Problems.
662-240		No terminal power. Action: Go to SCSI Bus Problems.
662-242		SCSI bus problem. Action: Go to SCSI Bus Problems.
662-301	662 221	The parent device open failed. Action: Use MAP 0210: General problem resolution.
662-701	662	Error log analysis indicates a PCI SCSI adapter failure. Action: Use MAP 0210: General problem resolution.
662-801		Error log analysis indicates a terminator problem. Action: Run the diagnostics on the adapter in system verification mode. If an SRN is reported, use the SRN to resolve the problem. If an SRN is not reported, use the SCSI service hints in General SCSI configuration checks to resolve the problem.

Service Request Number	Failing Function Codes	Description and Action
662-802		Error log analysis indicates that multiple attempts to reset the SCSI bus have timed out. Action: Run the diagnostics on the adapter in system verification mode. If an SRN is reported, use the SRN to resolve the problem. If an SRN is not reported, use the SCSI service hints in General SCSI configuration checks to resolve the problem.
662-803		Error log analysis indicates that multiple SCSI bus errors have occurred. Action: Run the diagnostics on the adapter in system verification mode. If an SRN is reported, use the SRN to resolve the problem. If an SRN is not reported, use the SCSI service hints in General SCSI configuration checks to resolve the problem.
663-101	663 C94 C95	IBM ARTIC960RxD or RxF PCI Adapter Central Processing Unit test failure. Action: Use MAP 0210: General problem resolution.
663-102	663 C94 C95	IBM ARTIC960RxD or RxF PCI Adapter Timer test failure. Action: Use MAP 0210: General problem resolution.
663-103	663 C94 C95	IBM ARTIC960RxD or RxF PCI Adapter Bus Interface test failure. Action: Use MAP 0210: General problem resolution.
663-104	C94 663 C95	IBM ARTIC960RxD or RxF PCI Adapter Dynamic Random Access Memory test failure. Action: Use MAP 0210: General problem resolution.
663-105	663 C94 C95	IBM ARTIC960RxD or RxF PCI Adapter Memory Protection test failure. Action: Use MAP 0210: General problem resolution.
663-106	663 C94 C95	IBM ARTIC960RxD PCI Adapter Debug Port test failure. Action: Use MAP 0210: General problem resolution.
663-107	C95663 C97	Interface board wrap test failure. Action: Use MAP 0210: General problem resolution.
663-110	C94 663 C95	IBM ARTIC960RxD or RxF PCI Adapter Download Diagnostics test failure. Action: Use MAP 0210: General problem resolution.
663-123	C95 663 C94	Interface board non-wrap test failure. Action: Use MAP 0210: General problem resolution.
663-150	663 software 227	Device configuration failure. Action: Use MAP 0210: General problem resolution.
663-151	663 software 227	Device driver indicates a hardware failure. Action: Use MAP 0210: General problem resolution.
663-152	663	Failure and error in determining which type of IBM ARTIC960RxD PCI Adapter. Action: Use MAP 0210: General problem resolution.
663-153	663 227 C94 software	Error log analysis indicates a IBM ARTIC960RxD or RxF PCI Adapter failure. Action: Use the errpt command to check error log. Action: Use MAP 0210: General problem resolution.

60B-xxx through 6C9-600

Service Request Number	Failing Function Codes	Description and Action
663-154	C94 663 C95	IBM ARTIC960RxD or RxF PCI Adapter initialization failure. Action: Use MAP 0210: General problem resolution.
663-155	663 C94 C95	IBM ARTIC960RxD or RxF PCI Adapter initialization failure. Action: Use MAP 0210: General problem resolution.
663-156	C95 663 C94	IBM ARTIC960RxD or RxF PCI Adapter initialization failure. Action: Use MAP 0210: General problem resolution.
663-157	C98 C97 C95	Cable wrap test failure. Action: Use MAP 0210: General problem resolution.
669-101	221	Enhanced error handling failure on bus. Action: Use MAP 0210: General problem resolution.
669-102	221	Enhanced error handling failure on Eads chip. Action: Use MAP 0210: General problem resolution.
669-103	669	Enhanced error handling failure on adapter. Action: Use MAP 0210: General problem resolution.
669-201	669 221	Configuration register test failure. Action: Before going to MAP 210, look at the label on the adapter. If the label is A-A, use SRN 66C-201 instead, and go to MAP 0210: General problem resolution.
669-202	669	I/O register test failure. Action: Use MAP 0210: General problem resolution.
669-203	669	Adapter memory test failure. Action: Use MAP 0210: General problem resolution.
669-204	669	Adapter initialization test failure. Action: Use MAP 0210: General problem resolution.
669-205	669	Internal loopback test failure. Action: Use MAP 0210: General problem resolution.
669-206	669	External wrap test failure (1000 Mbps). Action: Use MAP 0210: General problem resolution.
669-701	669	Error Log Analysis indicates that this device failed to initialize because it is not the IBM version of this adapter. AIX operating system cannot configure this non-IBM version of the adapter. Action: Use MAP 0210: General problem resolution.
669-702	669	Error Log Analysis indicates that this device failed to initialize due to a problem with the EEPROM on the adapter. Action: Use MAP 0210: General problem resolution.
669-703	669	Error Log Analysis indicates that this device has failed to initialize due to a self-test failure. Action: Use MAP 0210: General problem resolution.
669-704	669	Error Log Analysis indicates that this device has failed to initialize due to firmware download error. Action: Use MAP 0210: General problem resolution.
66A-101		Diagnostics indicates adapter configuration failure. Action: Use MAP 0210: General problem resolution.
66C-101	221	Enhanced error handling failure on bus. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
66C-102	221	Enhanced error handling failure on Eads chip. Action: Use MAP 0210: General problem resolution.
66C-103	66C	Enhanced error handling failure on adapter. Action: Use MAP 0210: General problem resolution.
66C-201	66C 221	Configuration register test failure. Action: Use MAP 0210: General problem resolution.
66C-202	66C	I/O register test failure. Action: Use MAP 0210: General problem resolution.
66C-203	66C	Adapter memory test failure. Action: Use MAP 0210: General problem resolution.
66C-204	66C	Adapter initialization test failure. Action: Use MAP 0210: General problem resolution.
66C-205	66C	Internal loopback test failure. Action: Use MAP 0210: General problem resolution.
66C-206	66C	External wrap test failure (1000 Mbps). Action: Use MAP 0210: General problem resolution.
66C-207	66C	External wrap test failure (10 Mbps). Action: Use MAP 0210: General problem resolution.
66C-208	66C	External wrap test failure (100 Mbps). Action: Use MAP 0210: General problem resolution.
66C-702	66C	Error Log Analysis indicates that this device failed to initialize due to a problem with the EEPROM on the adapter. Action: Use MAP 0210: General problem resolution.
66C-703	66C	Error Log Analysis indicates that this device has failed to initialize due to a self-test failure. Action: Use MAP 0210: General problem resolution.
66C-704	66C	Error Log Analysis indicates that this device has failed to initialize due to firmware download error. Action: Use MAP 0210: General problem resolution.
66D-101	66D 227	The PCI wrap test failed. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-102	66D E2A	The POST indicates an adapter failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-103	66D	The POST indicates an adapter channel failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-104	190	The POST indicates a defective cable. Action: Use MAP 0210: General problem resolution.
66D-105	B3A	The POST indicates a defective backplane or external enclosure. Action: Use MAP 0210: General problem resolution.
66D-106	722	The POST indicates the last disk drive reconnected caused a channel failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-108	221	Enhanced error handling failure on bus. Action: Use MAP 0210: General problem resolution.
66D-109	66D	The test indicates an adapter failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.

60B-xxx through 6C9-600

Service Request Number	Failing Function Codes	Description and Action
66D-110	722	The disk reported a Predictive Failure Analysis error (PFA). Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-111	722	The disk drive has been failed by the adapter. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-112	722	ELA indicates that the disk reported a hard data error. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-113	722	ELA indicates that the disk reported a hard equipment error. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-114	E2A	ELA indicates a cache failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-115	E3A	ELA indicates that the cache battery is either low on power or has failed. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-116	66D	Failed to disable data scrub. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-117	E2A	POST indicates cache failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-118	E2A	Adapter test indicates a cache failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-119	E2A	Adapter test indicates that write cache is missing. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-120	E2A	Adapter test indicates that cache size is invalid. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-121	E3A	Adapter test indicates that the cache battery is low on power. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-122	E3A	Adapter test indicates cache battery failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-123	66D	ELA indicates an adapter failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-124	221	Enhanced error handling failure on PCI-PCI Bridge. Action: Use MAP 0210: General problem resolution.
66D-125	66D 221	Enhanced error handling failure on adapter. Action: Use MAP 0210: General problem resolution.
66D-400	66D 190 B3A 722	The POST test indicates a channel failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-701	66D 221	Error Log Analysis indicates an enhanced error handling error. Action: Use MAP 0210: General problem resolution.
66E-100	66E	Unable to configure the parent device. Action: Use MAP 0210: General problem resolution.
66E-102	66E	SCSI command Inquiry has failed. Unable to get Additional Vital Product Data. Action: Use MAP 0210: General problem resolution.
66E-103	66E	SCSI command Reserve has failed. Action: Use MAP 0210: General problem resolution.
66E-104	66E	SCSI command Mode Sense has failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
66E-105	66E	SCSI command Mode Select has failed. Action: Use MAP 0210: General problem resolution.
66E-106	66E	SCSI command Allow Media Removal has failed. Action: Use MAP 0210: General problem resolution.
66E-107	66E	SCSI command Prevent Media Removal has failed. Action: Use MAP 0210: General problem resolution.
66E-108	66E	SCSI command Start Stop Unit has failed. Action: Use MAP 0210: General problem resolution.
66E-109	66E	SCSI command Test Unit Ready has failed. Action: Use MAP 0210: General problem resolution.
66E-10A	66E	SCSI command Send Diagnostic has failed. Action: Use MAP 0210: General problem resolution.
66E-10B	66E	SCSI command Release has failed. Action: Use MAP 0210: General problem resolution.
66E-10F	66E	Undetermined hardware error has occurred. Action: Use MAP 0210: General problem resolution.
66E-200	66E B88	Unable to configure the device. Action: Use MAP 0210: General problem resolution.
66E-201	media 66E	DVD-RAM drive is unable to eject the tray. Action: Verify that no external object prevents the drive from ejecting the tray. Verify that no media is stuck inside the drive. Otherwise, use MAP 0210: General problem resolution.
66E-202	media 66E	DVD-RAM drive is unable to load the tray. Action: Verify that no external object prevents the drive from loading the tray. Verify that the test medium is inserted properly in the tray. Otherwise, use MAP 0210: General problem resolution.
66E-203	media 66E	DVD-RAM drive is unable to detect the test medium. Action: Verify that the test medium is inserted properly. Clean the drive. Run the test with another test medium. Otherwise, use MAP 0210: General problem resolution.
66E-204	66E B88	A SCSI reservation conflict has occurred. Action: Use MAP 0210: General problem resolution.
66E-205	media 66E	The Random Write/Read/Compare Test has detected a medium error while testing the DVD-RAM test medium. Action: Run Diagnostic on this drive with another DVD-RAM test medium. Use MAP 0210: General problem resolution.
66E-206	66E media	The Random Write/Read/Compare Test has detected a hardware error while testing the DVD-RAM test medium. Action: Run Diagnostic on this drive with another DVD-RAM test medium. Use MAP 0210: General problem resolution.
66E-207	media 66E	The Random Read Test has detected a medium error while testing the CD-ROM test medium. Action: Run Diagnostic on this drive with another CD-ROM test medium. Use MAP 0210: General problem resolution.
66E-208	66E media	The Random Read Test has detected a hardware error while testing the CD-ROM test medium. Action: Run Diagnostic on this drive with another CD-ROM test medium. Use MAP 0210: General problem resolution.

60B-xxx through 6C9-600

Service Request Number	Failing Function Codes	Description and Action
66E-209	media 66E	DVD-RAM drive is unable to determine the media type. Action: Verify that the proper test medium is inserted. Clean the drive. Run Diagnostic on this drive with another test medium. UseMAP 0210: General problem resolution.
66E-20A	media 66E	DVD-RAM drive has faulty write-protect-detection mechanism. Action: Verify that the DVD-RAM test medium is not write-protected. Run Diagnostic on this drive with another DVD-RAM test medium. Use MAP 0210: General problem resolution.
66E-20B	media 66E	DVD-RAM drive has detected a media error. Action: Verify that the DVD-RAM test medium is inserted properly. Run Diagnostic on this drive with another DVD-RAM test medium. If the test fails with the new test media, use MAP 0210: General problem resolution. to replace the defective DVD-ROM drive.
66E-300	66E B88 190	SCSI command timeout has occurred. Action: Use MAP 0210: General problem resolution. to replace the defective DVD-ROM drive.
66E-301	B88 190 66E	Unit Attention has occurred. Action: Use MAP 0210: General problem resolution.
66E-700	66E	ELA indicates an irrecoverable hardware error. Action: Use MAP 0210: General problem resolution.
66E-701	66E	ELA indicates an undetermined hardware error. Action: Use MAP 0210: General problem resolution.
670-xxx to 673-xxx		See SCSI devices SRNs ssss-102 through ssss-640.
674-101	674 C94 C95	IBM ARTIC960Rx PCI Adapter Central Processing Unit (CPU) test failure. Action: Use MAP 0210: General problem resolution.
674-102	674 C94 C95	IBM ARTIC960Rx PCI Adapter Timer test failure. Action: Use MAP 0210: General problem resolution.
674-103	674 C94 C95	IBM ARTIC960Rx PCI Adapter Bus Interface test failure. Action: Use MAP 0210: General problem resolution.
674-104	C94 674 C95	IBM ARTIC960Rx PCI Adapter Dynamic Random Access Memory (DRAM) test failure. Action: Use MAP 0210: General problem resolution.
674-105	674 C94 C95	IBM ARTIC960Rx PCI Adapter Memory Protection test failure. Action: Use MAP 0210: General problem resolution.
674-106	674 C94 C95	IBM ARTIC960Rx PCI Adapter Debug Port test failure. Action: Use MAP 0210: General problem resolution.
674-107	C95 674 C97	Interface board wrap test failure. Action: Use MAP 0210: General problem resolution.
674-110	C94 674 C95	IBM ARTIC960Rx PCI Adapter Download Diagnostics test failure. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
674-123	C95 C97	Interface board non-wrap test failure. Action: Use MAP 0210: General problem resolution.
674-150	674 software 227	Device configuration failure. Action: Use MAP 0210: General problem resolution.
674-151	674 software 227	Device driver indicates a hardware failure. Action: Use MAP 0210: General problem resolution.
674-152	674	Failure and error in determining which type of IBM ARTIC960Rx PCI Adapter. Action: Use MAP 0210: General problem resolution.
674-153	674 227 C94 software	Error log analysis indicates a IBM ARTIC960Rx PCI Adapter failure. Action: Use the errpt command to check error log. Action: Use MAP 0210: General problem resolution.
674-154	C94 674 C95	IBM ARTIC960Rx PCI Adapter initialization failure. Action: Use MAP 0210: General problem resolution.
674-155	674 C94 C95	IBM ARTIC960Rx PCI Adapter initialization failure. Action: Use MAP 0210: General problem resolution.
674-156	C95 674 C94	IBM ARTIC960Rx PCI Adapter initialization failure. Action: Use MAP 0210: General problem resolution.
674-157	C97 C95	Cable wrap test failure. Action: Use MAP 0210: General problem resolution.
675-101	675 C94 C95	IBM ARTIC960Hx Adapter Central Processing Unit (CPU) test failure. Action: Use MAP 0210: General problem resolution.
675-102	675 C94 C95	IBM ARTIC960Hx Adapter Timer test failure. Action: Use MAP 0210: General problem resolution.
675-103	675 C94 C95	IBM ARTIC960Hx Adapter Bus Interface test failure. Action: Use MAP 0210: General problem resolution.
675-104	C94 675 C95	IBM ARTIC960Hx Adapter Dynamic Random Access Memory (DRAM) test failure. Action: Use MAP 0210: General problem resolution.
675-105	675 C94 C95	IBM ARTIC960Hx Adapter Memory Protection test failure. Action: Use MAP 0210: General problem resolution.
675-106	675 C94 C95	IBM ARTIC960Hx Adapter Debug Port test failure. Action: Use MAP 0210: General problem resolution.
675-107	C95 675 C97	Interface board wrap test failure. Action: Use MAP 0210: General problem resolution.
675-110	C94 675 C95	IBM ARTIC960Hx Adapter Download Diagnostics test failure. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
675-123	C95 675 C94	Interface board non-wrap test failure. Action: Use MAP 0210: General problem resolution.
675-150	675 software 227	Device configuration failure. Action: Use MAP 0210: General problem resolution.
675-151	675 software 227	Device driver indicates a hardware failure. Action: Use MAP 0210: General problem resolution.
675-152	675	Failure and error in determining which type of IBM ARTIC960Hx Adapter. Action: Use MAP 0210: General problem resolution.
675-153	675 227 C94 software	Error log analysis indicates a IBM ARTIC960Hx Adapter failure. Action: Use the errprt command to check error log.MAP 0210: General problem resolution.
675-154	C94 675 C95	IBM ARTIC960Hx Adapter initialization failure. Action: Use the MAP 0210: General problem resolution.
675-155	675 C94 C95	IBM ARTIC960Hx Adapter initialization failure. Action: Use the MAP 0210: General problem resolution.
675-156	C95 675 C94	IBM ARTIC960Hx Adapter initialization failure. Action: Use the MAP 0210: General problem resolution.
675-157	C98 C97 C95	Cable wrap test failure. Action: Use the MAP 0210: General problem resolution.
677-101	677	The Fibre Channel Adapter configuration failed. Action: Use the MAP 0210: General problem resolution.
677-102	677	The Reset test failed. Action: Use the MAP 0210: General problem resolution.
677-103	677	The Register test failed. Action: Use the MAP 0210: General problem resolution.
677-104	677	The SRAM test failed. Action: Use the MAP 0210: General problem resolution.
677-105	677	The Internal Wrap test failed. Action: Use the MAP 0210: General problem resolution.
677-106	677	The Gigabaud Link Module (GLM) Wrap Test Failure. Action: Use the MAP 0210: General problem resolution.
677-107	677	The External Wrap test failed. Action: Use the MAP 0210: General problem resolution.
677-109	221	Enhanced Error Handling Failure on EADs chip. Action: Use the MAP 0210: General problem resolution.
677-110	677	Enhanced Error Handling Failure on adapter. Action: Use the MAP 0210: General problem resolution.
677-201	677 221	The Configuration Register test failed. Action: Use the MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
677-202	677 221	The Interrupt test failed. Action: Use the MAP 0210: General problem resolution.
677-203	677 221	The PCI Wrap test failed. Action: Use the MAP 0210: General problem resolution.
677-204	677 221	The DMA test failed. Action: Use the MAP 0210: General problem resolution.
677-205	677 221	I/O error on a read/write operation. Action: Use the MAP 0210: General problem resolution.
677-701	677 221	Error log analysis indicates that an error has occurred with the adapter. Action: Use the MAP 0210: General problem resolution.
677-703	677	Error log analysis indicates that an unknown adapter error has occurred. Action: Use the MAP 0210: General problem resolution.
677-704	677	Error log analysis indicates that an adapter error has occurred. Action: Use MAP 0210: General problem resolution.
677-705	677	A parity error has been detected. The adapter must be replaced immediately. Failure to do so could result in data being read or written incorrectly. Action: Use MAP 0210: General problem resolution.
677-706	677	A fatal hardware error has occurred. This adapter was successfully taken offline. It will remain offline until reconfigured or the system is rebooted. This adapter must be replaced and not brought back online. Failure to adhere to this action could result in data being read or written incorrectly or in the loss of data.
678-098	678	Tape drive indicates an error. Action: Use MAP 0210: General problem resolution.
678-099	678 B88	Tape drive not found. Action: Use MAP 0210: General problem resolution.
678-101	678	Timeout while attempting to communicate with SCSI device. Action: Use MAP 0210: General problem resolution.
678-102	678	The SCSI device indicates busy. Action: Use MAP 0210: General problem resolution.
678-103	678	The SCSI device indicates a reservation conflict. Action: Use MAP 0210: General problem resolution.
678-104	678	The SCSI device indicates a check condition. Action: Use MAP 0210: General problem resolution.
678-105	678	An error is detected in request sense data. Action: Use MAP 0210: General problem resolution.
678-107	678	Sense data from the SCSI drive has unexpected data. Action: Use MAP 0210: General problem resolution.
678-110	678	The Reserve command failed. Action: Use MAP 0210: General problem resolution.
678-111	678	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution.
678-112	678	The write-protect sensor test failed. Action: Use MAP 0210: General problem resolution.
678-113	678	Invalid condition from drive after a request sense. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
678-114	678	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution.
678-120	678	The Inquiry command failed. Action: Use MAP 0210: General problem resolution.
678-130	678 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
678-134	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
678-135	678 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
678-140	678	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
678-150	678 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
678-160	678 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
678-161	678 B88	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution.
678-163	678 B88	Invalid condition from the drive after a request sense. Action: Use MAP 0210: General problem resolution.
678-164	678 B88	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution.
678-165	678 B88 276	Write, Read and Compare Test failed. Action: Use MAP 0210: General problem resolution.
678-166	678 B88 software	Unable to configure the device. Action: Use MAP 0210: General problem resolution.
678-167	678 B88	An unexpected SCSI error occurred. Action: Use MAP 0210: General problem resolution.
678-168	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
678-169	678 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
678-170	678 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
678-180	678 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
678-185	678 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
678-190	678	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
678-200	678 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
678-201	678 B88	Error diagnosed from error log analysis. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
678-210	678 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
678-211	678 B88	The device open failed. Action: Use MAP 0210: General problem resolution.
678-220	678	The Release command failed. Action: Use MAP 0210: General problem resolution.
678-230	678	The Request Sense command failed. Action: Use MAP 0210: General problem resolution.
678-240	678	The Openx command failed. Action: Use MAP 0210: General problem resolution.
678-260	678	The device configuration failed. Action: Use MAP 0210: General problem resolution.
678-261	678	The device open failed. Action: Use MAP 0210: General problem resolution.
678-300	678 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
678-310	B88 678 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
678-320	678 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
678-411 to 678-423	678 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.
678-511 to 678-523	678 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
678-611 to 678-623	678 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
678-711 to 678-723	678 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.
679-xxx		See SCSI devices SRNs <i>ssss-102</i> through <i>ssss-640</i> .
67B-100	67B	POST failed: Catastrophic error detected. Action: Use MAP 0210: General problem resolution.
67B-601	11A	ELA indicates a low battery warning. Action: Use MAP 0210: General problem resolution.
67B-602	67B	ELA indicates a mesh violation - tamper. Action: Use MAP 0210: General problem resolution.
67B-603	67B	ELA indicates the coprocessor is held in a reset condition. Action: Use MAP 0210: General problem resolution.
67B-604	67B	ELA indicates a +3, +5, or +12 V over-voltage condition. Action: Use MAP 0210: General problem resolution.
67B-605	67B	ELA indicates an out-of-temperature specification. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
67B-606	67B	ELA indicates a X-ray or dead battery condition. Action: Use MAP 0210: General problem resolution.
67B-607	67B	ELA indicates: Intrusion latch. Action: Use MAP 0210: General problem resolution.
67E-001	67E 221 Monitor/ Cable	Adapter problem. Action: Use MAP 0210: General problem resolution.
67E-002	67E Monitor/ Cable	Display problem. Action: Use MAP 0210: General problem resolution.
67E-003	software 67E	Software error. Action: Use MAP 0210: General problem resolution.
67E-004	67E Monitor/ Cable	The monitor test failed. Action: Use MAP 0210: General problem resolution.
681-xxx		SCSI devices SRNs ssss-102 through ssss-640.
683-128	683	Error Log Analysis Indicates hardware failure VSS2105 Model B09. Action: Use MAP 0210: General problem resolution.
686-114	686	The register verification test failed. Action: Use MAP 0210: General problem resolution
686-124	686	The adapter RAM verification test failed. Action: Use MAP 0210: General problem resolution
686-152	686 D57	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution
686-153	686	The modem control line test failed. Action: Use MAP 0210: General problem resolution
686-252	686	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution
686-253	686	The modem control line test failed. Action: Use MAP 0210: General problem resolution
686-501	686	Adapter Reset failed Action: Use MAP 0210: General problem resolution
686-511	686	Adapter to host memory test failed (byte tag test). Action: Use MAP 0210: General problem resolution
686-512	686	Adapter to host memory test failed (word tag test). Action: Use MAP 0210: General problem resolution
686-513	686	Adapter to host memory test failed (byte pattern test). Action: Use MAP 0210: General problem resolution
686-514	686	Adapter to host memory test failed (word pattern test). Action: Use MAP 0210: General problem resolution
686-521	686	Adapter BIOS POST CPU failed. Action: Use MAP 0210: General problem resolution
686-522	686	Adapter BIOS POST Checksum failed. Action: Use MAP 0210: General problem resolution
686-523	686	Adapter BIOS POST Timer failed. Action: Use MAP 0210: General problem resolution

Service Request Number	Failing Function Codes	Description and Action
686-524	686	Adapter BIOS POST RAM failed. Action: Use MAP 0210: General problem resolution
686-526	686	Adapter BIOS POST Async Ports failed. Action: Use MAP 0210: General problem resolution
686-527	686	Adapter BIOS test failed. Action: Use MAP 0210: General problem resolution
686-528	686	Adapter BIOS Reset failed. Action: Use MAP 0210: General problem resolution
686-529	686	Adapter BIOS Download failed. Action: Use MAP 0210: General problem resolution
686-531	686	Adapter BIOS Command failed. Action: Use MAP 0210: General problem resolution
686-533	686	Adapter BIOS Timer test failed. Action: Use MAP 0210: General problem resolution
686-534	686	Adapter BIOS RAM test failed. Action: Use MAP 0210: General problem resolution
686-541	686	Port async internal loopback test failed (general). Action: Use MAP 0210: General problem resolution
686-542	686	Port async internal loopback test failed (no response from the port). Action: Use MAP 0210: General problem resolution
686-551	686	Port async external loopback test failed (general). Action: Use MAP 0210: General problem resolution
686-552	686	Port async external loopback test failed (data signals). Action: Use MAP 0210: General problem resolution
686-553	686	Port async external loopback test failed (control signals). Action: Use MAP 0210: General problem resolution
686-554	686	Port async external loopback test failed (modem signals). Action: Use MAP 0210: General problem resolution
686-555	686	Port async external loopback test failed (no response from port). Action: Use MAP 0210: General problem resolution
686-901 to 686-920	software 686	An unexpected error occurred that can be attributed to software or hardware. Action: Run diagnostics from a source other than from the disk or a network. If the same error occurs or if the original SRN was not obtained from disk or a network based diagnostics, use MAP 210 with a FFC of 686; otherwise, suspect a software problem.
686-921	686 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution
686-922 to 686-924	software 686	An unexpected error occurred that can be attributed to software or hardware. Action: Run diagnostics from a source other than from the disk or a network. If the same error occurs or if the original SRN was not obtained from disk or a network based diagnostics, use MAP 0210: General problem resolution with a FFC of 686; otherwise, suspect a software problem.
686-925	686	The adapter failed to configure software Action: Use MAP 0210: General problem resolution

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Service Request Number	Failing Function Codes	Description and Action
686-926 to 686-950	software 686	An unexpected error occurred that can be attributed to software or hardware. Action: Run diagnostics from a source other than from the disk or a network. If the same error occurs or if the original SRN was not obtained from disk or a network based diagnostics, use MAP 0210: General problem resolution with a FFC of 686; otherwise, suspect a software problem.
687-111	687	The controller register test failed. Action: Use MAP 0210: General problem resolution
687-114	687	The register verification test failed. Action: Use MAP 0210: General problem resolution
687-124	687	The adapter RAM verification test failed. Action: Use MAP 0210: General problem resolution
687-144	687	The sync line test failed. Action: Use MAP 0210: General problem resolution
687-152	837 684 687 152	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution
687-153	687	The modem control line test failed. Action: Use MAP 0210: General problem resolution
687-244	687	The sync line test failed. Action: Use MAP 0210: General problem resolution
687-252	687	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution
687-253	687	The modem control line test failed. Action: Use MAP 0210: General problem resolution
687-501	687	Adapter Reset failed. Action: Use MAP 0210: General problem resolution
687-502	687	Adapter Fuse failed. Action: Use MAP 0210: General problem resolution
687-511	687	Adapter to host memory test failed (byte tag test). Action: Use MAP 0210: General problem resolution
687-512	687	Adapter to host memory test failed (word tag test). Action: Use MAP 0210: General problem resolution
687-513	687	Adapter to host memory test failed (byte pattern test). Action: Use MAP 0210: General problem resolution
687-514	687	Adapter to host memory test failed (word pattern test). Action: Use MAP 0210: General problem resolution
687-521	687	Adapter BIOS POST CPU failed. Action: Use MAP 0210: General problem resolution
687-522	687	Adapter BIOS POST Checksum failed. Action: Use MAP 0210: General problem resolution
687-523	687	Adapter BIOS POST Timer failed. Action: Use MAP 0210: General problem resolution
687-524	687	Adapter BIOS POST RAM failed. Action: Use MAP 0210: General problem resolution
687-525	687	Adapter BIOS POST Sync Line failed. Action: Use MAP 0210: General problem resolution

Service Request Number	Failing Function Codes	Description and Action
687-527	687	Adapter BIOS test failed. Action: Use MAP 0210: General problem resolution
687-528	687	Adapter BIOS Reset failed. Action: Use MAP 0210: General problem resolution
687-529	687	Adapter BIOS Download failed. Action: Use MAP 0210: General problem resolution
687-531	687	Adapter BIOS Command failed. Action: Use MAP 0210: General problem resolution
687-533	687	Adapter BIOS Timer test failed. Action: Use MAP 0210: General problem resolution
687-534	687	Adapter BIOS RAM test failed. Action: Use MAP 0210: General problem resolution
687-541	687	Port sync internal loopback test failed. Action: Use MAP 0210: General problem resolution
687-551	687	Port sync external loopback test failed. Action: Use MAP 0210: General problem resolution
687-600	837	232RAN status test failed. Action: Use MAP 0210: General problem resolution
687-700	684	422RAN status test failed. Action: Use MAP 0210: General problem resolution
687-901 to 687-920	software 687	An unexpected error occurred that can be attributed to software or hardware. Action: Run diagnostics from a source other than from the disk or a network. If the same error occurs or if the original SRN was not obtained from disk or a network based diagnostics, use MAP 0210: General problem resolution with a FFC of 687; otherwise, suspect a software problem.
687-921	software 687	The adapter failed to configure. Action: Use MAP 0210: General problem resolution
687-922 to 687-924	software 687	An unexpected error occurred that can be attributed to software or hardware. Action: Run diagnostics from a source other than from the disk or a network. If the same error occurs or if the original SRN was not obtained from disk or a network based diagnostics, use MAP 0210: General problem resolution with a FFC of 687; otherwise, suspect a software problem.
687-925	687 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution
687-926 to 687-950	software 687	An unexpected error occurred that can be attributed to software or hardware. Action: Run diagnostics from a source other than from the disk or a network. If the same error occurs or if the original SRN was not obtained from disk or a network based diagnostics, use MAP 0210: General problem resolution with a FFC of 687; otherwise, suspect a software problem.
689-xxx		See SCSI devices SRNs ssss-102 through ssss-640.
68C-101	68C	Timeout while attempting to communicate with SCSI device. Action: Use MAP 0210: General problem resolution
68C-102	68C	The SCSI device indicates busy. Action: Use MAP 0210: General problem resolution.
68C-103	68C	The SCSI device indicates a reservation conflict. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
68C-104	68C	The SCSI device indicates a check condition. Action: Use MAP 0210: General problem resolution.
68C-105	68C	An error is detected in request sense data. Action: Use MAP 0210: General problem resolution.
68C-107	68C	Sense data from the SCSI drive has unexpected data. Action: Use MAP 0210: General problem resolution
68C-110	68C	The Reserve command failed. Action: Use MAP 0210: General problem resolution
68C-111	68C	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution
68C-112	68C	The write-protect sensor test failed. Action: Use MAP 0210: General problem resolution
68C-113	68C	Invalid condition from drive after a request sense. Action: Use MAP 0210: General problem resolution
68C-114	68C	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution
68C-120	68C	The Inquiry command failed. Action: Use MAP 0210: General problem resolution
68C-130	68C media	The Load command failed. Action: Use MAP 0210: General problem resolution
68C-134	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution
68C-135	68C media	The Unload command failed. Action: Use MAP 0210: General problem resolution
68C-140	68C	The Mode Select command failed. Action: Use MAP 0210: General problem resolution
68C-150	68C media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution
68C-160	68C media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
68C-161	68C B88	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution.
68C-163	68C B88	Invalid condition from the drive after a request sense. Action: Use MAP 0210: General problem resolution.
68C-164	68C B88	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution.
68C-165	68C B88 276	Write, Read and Compare Test failed. Action: Use MAP 0210: General problem resolution.
68C-166	68C B88 software	Unable to configure the device. Action: Use MAP 0210: General problem resolution.
68C-167	68C B88	An unexpected SCSI error occurred. Action: Use MAP 0210: General problem resolution.
68C-168	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
68C-169	68C media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
68C-170	68C B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
68C-180	68C media	The Load command failed. Action: Use MAP 0210: General problem resolution.
68C-185	68C media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
68C-190	68C	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
68C-200	68C media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
68C-201	68C B88	Error diagnosed from error log analysis. Action: Use MAP 0210: General problem resolution.
68C-210	68C B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
68C-211	68C B88	The device open failed. Action: Use MAP 0210: General problem resolution.
68C-220	68C	The Release command failed. Action: Use MAP 0210: General problem resolution.
68C-230	68C	The Request Sense command failed. Action: Use MAP 0210: General problem resolution.
68C-240	68C	The Openx command failed. Action: Use MAP 0210: General problem resolution.
68C-260	68C	The device configuration failed. Action: Use MAP 0210: General problem resolution.
68C-261	68C	The device open failed. Action: Use MAP 0210: General problem resolution.
68C-300	68C software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
68C-310	B88 68C software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
68C-320	68C media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
68C-411 to 68C-423	68C B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.
68C-511 to 68C-523	68C B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
68C-611 to 68C-623	68C B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
68C-711 to 68C-723	68C B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
68E-001	Software 68E	Software error. Action: Use MAP 0210: General problem resolution.
68E-002	68E Software	Adapter failure. Action: Use MAP 0210: General problem resolution.
68E-003	68E 227	Adapter failure. Action: Use MAP 0210: General problem resolution.
68E-004	68E Monitor/ Cable	Display failure. Action: Use MAP 0210: General problem resolution.
68E-005	68E 227 Monitor/ Cable	Adapter failure. Action: Use MAP 0210: General problem resolution.
690-xxx		See SCSI devices SRNs ssss-102 through ssss-640.
692-110	692	The Reserve command failed. Action: Use MAP 0210: General problem resolution.
692-120	692	The Inquiry command failed. Action: Use MAP 0210: General problem resolution.
692-130	692 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
692-135	692 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
692-140	692	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
692-150	692 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
692-160	692 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
692-169	692 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
692-170	692 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
692-180	692 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
692-185	692 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
692-190	692	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
692-200	692 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
692-210	692 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
692-220	692	The Release command failed. Action: Use MAP 0210: General problem resolution.
692-230	692	The Request Sense command failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
692-240	692	The Openx command failed. Action: Use MAP 0210: General problem resolution.
692-300	692 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
692-310	B88 692 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
692-320	692 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
692-411 to 692-423	692 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.
692-511 to 692-523	692 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
692-611 to 692-623	692 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
692-711 to 692-723	692 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.
693-100	693 227	Adapter open failed. Action: Use MAP 0210: General problem resolution.
693-101	693 227	Adapter config register test failed. Action: Use MAP 0210: General problem resolution.
693-102	693 227	Adapter reset failed. Action: Use MAP 0210: General problem resolution.
693-103	693 227	Adapter I/O register test failed. Action: Use MAP 0210: General problem resolution.
693-104	693 227	Adapter microcode download test failed. Action: Use MAP 0210: General problem resolution.
693-105	693 227	Adapter internal wrap test failed. Action: Use MAP 0210: General problem resolution.
693-106	693 227	Adapter close failed. Action: Use MAP 0210: General problem resolution.
697-100	697 software 227	Charm memory write failure. Action: Use MAP 0210: General problem resolution.
697-101	697 software 227	Charm memory read failure. Action: Use MAP 0210: General problem resolution.
697-102	697 software 227	PCI configuration register write failure. Action: Use MAP 0210: General problem resolution.
697-103	697 software 227	Charm software reset failure. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
697-104	697 software 227	Packet memory error. Action: Use MAP 0210: General problem resolution.
697-105	697 software 227	Control memory failure. Action: Use MAP 0210: General problem resolution.
697-106	697	Link-R detected bad parity. Action: Use MAP 0210: General problem resolution.
697-107	697	Suni detected bad parity. Action: Use MAP 0210: General problem resolution.
697-108	697	Suni initialization failure. Action: Use MAP 0210: General problem resolution.
697-109	Wrap Plug 697	Loss of light detected in Link test. Action: Check wrap plug installation. Action: Use MAP 0210: General problem resolution.
697-10B	Wrap Plug 697	External Loopback failed Action: Check wrap plug installation. Action: Use MAP 0210: General problem resolution.
697-10C	697 software 227	Internal Loopback failed. Action: Use MAP 0210: General problem resolution.
697-10D	697 227 software	DMS failed. Action: Use MAP 0210: General problem resolution.
697-121	697	Adapter memory test failure. Action: Use MAP 0210: General problem resolution.
697-122	697	Adapter checksum failure. Action: Use MAP 0210: General problem resolution.
697-123	697	Internal wrap test failure Action: Use MAP 0210: General problem resolution.
697-124	697	External wrap test failure Action: Use MAP 0210: General problem resolution.
697-125	221	Enhanced Error Handling failure on bus Action: Use MAP 0210: General problem resolution.
697-126	221	Enhanced Error Handling failure on EADS chip Action: Use MAP 0210: General problem resolution.
697-127	697	Enhanced Error Handling failure on adapter Action: Use MAP 0210: General problem resolution.
697-1FF	697 software 227	EPROM checksum failed Action: Use MAP 0210: General problem resolution.
697-200	software 697 227	Klog error Action: Use MAP 0210: General problem resolution.
697-201	software 697 227	ASL error Action: Use MAP 0210: General problem resolution.
697-202	software 697 227	ODM Initialization error Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
697-203	software 697 227	Diagnostic configuration failure. Action: Use MAP 0210: General problem resolution.
697-205	software 697 227	Error in diag open. Action: Use MAP 0210: General problem resolution.
697-206	software 697 227	Error in releasing adapter Action: Use MAP 0210: General problem resolution.
697-221	697 221	Hardware failure opening the adapter Action: Use MAP 0210: General problem resolution.
697-222	697 221	Enhanced Error Handling failure opening the adapter Action: Use MAP 0210: General problem resolution.
697-223	697 221	Interrupt test failure Action: Use MAP 0210: General problem resolution.
697-224	697 221	Adapter DMA test failure Action: Use MAP 0210: General problem resolution.
697-701	697 221	Error Log Analysis indicates an I/O failure on the adapter. Action: Use MAP 0210: General problem resolution.
697-702	697	Error Log Analysis indicates an unrecovered interrupt error. Action: Use MAP 0210: General problem resolution.
698-100	698 software 227	Charm memory write failure. Action: Use MAP 0210: General problem resolution.
698-101	698 software 227	Charm memory read failure. Action: Use MAP 0210: General problem resolution.
698-102	698 software 227	PCI configuration register write failure. Action: Use MAP 0210: General problem resolution.
698-103	698 software 227	Charm software reset failure. Action: Use MAP 0210: General problem resolution.
698-104	698 software 227	Packet memory error Action: Use MAP 0210: General problem resolution.
698-105	698 software 227	Control memory failure. Action: Use MAP 0210: General problem resolution.
698-106	698	Link-R detected bad parity. Action: Use MAP 0210: General problem resolution.
698-107	698	Suni detected bad parity. Action: Use MAP 0210: General problem resolution.
698-108	698	Suni initialization failure. Action: Use MAP 0210: General problem resolution.
698-109	Wrap Plug 698	Loss of light detected in Link test. Action: Check wrap plug installation. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
698-10B	Wrap Plug 698	External Loopback failed Action: Check wrap plug installation. Action: Use MAP 0210: General problem resolution.
698-10C	698 software 227	Internal Loopback failed. Action: Use MAP 0210: General problem resolution.
698-10D	698 227 software	DMS failed. Action: Use MAP 0210: General problem resolution.
698-121	698	Adapter memory test failure. Action: Use MAP 0210: General problem resolution.
698-122	698	Adapter checksum failure. Action: Use MAP 0210: General problem resolution.
698-123	698	Internal wrap test failure. Action: Use MAP 0210: General problem resolution.
698-124	698	External wrap test failure. Action: Use MAP 0210: General problem resolution.
698-125	221	Enhanced Error Handling failure on bus. Action: Use MAP 0210: General problem resolution.
698-126	221	Enhanced Error Handling failure on EADS chip. Action: Use MAP 0210: General problem resolution.
698-127	698	Enhanced Error Handling failure on adapter. Action: Use MAP 0210: General problem resolution.
698-1FF	698 software 227	EPROM checksum failed. Action: Use MAP 0210: General problem resolution.
698-200	software 698 227	Klog error. Action: Use MAP 0210: General problem resolution.
698-201	software 698 227	ASL error. Action: Use MAP 0210: General problem resolution.
698-202	software 698 227	ODM Initialization error. Action: Use MAP 0210: General problem resolution.
698-203	software 698 227	Diagnostic configuration failure. Action: Use MAP 0210: General problem resolution.
698-205	software 698 227	Error in diag open. Action: Use MAP 0210: General problem resolution.
698-206	software 698 227	Error in releasing adapter. Action: Use MAP 0210: General problem resolution.
698-221	698 221	Hardware failure opening the adapter. Action: Use MAP 0210: General problem resolution.
698-222	698 221	Enhanced Error Handling failure opening the adapter. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
698-223	698 221	Interrupt test failure. Action: Use MAP 0210: General problem resolution.
698-224	698 221	Adapter DMA test failure. Action: Use MAP 0210: General problem resolution.
698-701	698 221	Error Log Analysis indicates an I/O failure on the adapter. Action: Use MAP 0210: General problem resolution.
698-702	698	Error Log Analysis indicates an unrecovered interrupt error. Action: Use MAP 0210: General problem resolution.
69b-101	69b	EPROM test failure. Action: Use MAP 0210: General problem resolution.
69b-102	69b	Adapter SDRAM failure. Action: Use MAP 0210: General problem resolution.
69b-103	69b	Adapter checksum failure. Action: Use MAP 0210: General problem resolution.
69b-104	69b	Adapter memory test failure. Action: Use MAP 0210: General problem resolution.
69b-105	69b	Adapter buffer test failure. Action: Use MAP 0210: General problem resolution.
69b-106	69b	Adapter cache test failure. Action: Use MAP 0210: General problem resolution.
69b-107	69b	Internal loopback test failure. Action: Use MAP 0210: General problem resolution.
69b-108	69b	External wrap test failure. Action: Use MAP 0210: General problem resolution.
69b-109	221	Enhanced Error Handling failure on bus. Action: Use MAP 0210: General problem resolution.
69b-110	221	Enhanced Error Handling failure on Eads chip. Action: Use MAP 0210: General problem resolution.
69b-111	69b	Enhanced Error Handling failure on adapter. Action: Use MAP 0210: General problem resolution.
69b-201	69b 221	Hardware failure opening adapter. Action: Use MAP 0210: General problem resolution.
69b-202	69b 221	Interrupt test failure. Action: Use MAP 0210: General problem resolution.
69b-203	69b 221	Adapter DMA test failure. Action: Use MAP 0210: General problem resolution.
69b-204	69b 221	Enhanced error handling failure opening the adapter. Action: Use MAP 0210: General problem resolution.
69b-701	69b	Error Log Analysis indicates an I/O failure on the adapter. Action: Use MAP 0210: General problem resolution.
69d-101	69d	EPROM test failure. Action: Use MAP 0210: General problem resolution.
69d-102	69d	Adapter SDRAM failure. Action: Use MAP 0210: General problem resolution.
69d-103	69d	Adapter checksum failure. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
69d-104	69d	Adapter memory test failure. Action: Use MAP 0210: General problem resolution.
69d-105	69d	Adapter buffer test failure. Action: Use MAP 0210: General problem resolution.
69d-106	69d	Adapter cache test failure. Action: Use MAP 0210: General problem resolution.
69d-107	69d	Internal loopback test failure. Action: Use MAP 0210: General problem resolution.
69d-108	69d	External wrap test failure. Action: Use MAP 0210: General problem resolution.
69d-109	221	Enhanced Error Handling failure on bus. Action: Use MAP 0210: General problem resolution.
69d-110	221	Enhanced Error Handling failure on Eads chip. Action: Use MAP 0210: General problem resolution.
69d-111	69d	Enhanced Error Handling failure on adapter. Action: Use MAP 0210: General problem resolution.
69d-201	69d 221	Hardware failure opening adapter. Action: Use MAP 0210: General problem resolution.
69d-202	69d 221	Interrupt test failure. Action: Use MAP 0210: General problem resolution.
69d-203	69d 221	Adapter DMA test failure. Action: Use MAP 0210: General problem resolution.
69d-204	69d 221	Enhanced error handling failure opening the adapter. Action: Use MAP 0210: General problem resolution.
69d-701	69d	Error Log Analysis indicates an I/O failure on the adapter. Action: Use MAP 0210: General problem resolution.

SRNs 700-xxx through 7C1-117

Note: Some SRNs in this chapter may have 4 rather than 3 digits after the dash (-).

Service Request Number	Failing Function Codes	Description and Action
700-xxx to 707-xxx		See SCSI devices SRNs (ssss-102 to ssss-640).
721-xxx		See SCSI devices SRNs (ssss-102 to ssss-640).
722-xxx	722	Unknown disk drive type is failing. Action: Use MAP 0210: General problem resolution.
723-xxx	723	Unknown CD-ROM type is failing. Action: Use MAP 0210: General problem resolution.
724-xxx	724	Unknown tape drive failure. Action: Use MAP 0210: General problem resolution.
733-110 to 733-120	733	The Reserve command failed, or the Inquiry command failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
733-130 to 733-135	733 media	The Load command failed, or the Unload command failed. Action: Use MAP 0210: General problem resolution.
733-140	733	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
733-150 to 733-169	733 media	The Test Unit Ready command failed, or the Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
733-170	733 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
733-180 to 733-185	733 media	The Load command failed, or the Unload command failed. Action: Use MAP 0210: General problem resolution.
733-190	733	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
733-200	733 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
733-210	733 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
733-220 to 733-240	733	140 GB 8 mm tape drive failed. Action: Use MAP 0210: General problem resolution.
733-300	733 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
733-310	B88 733 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
733-320	733 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
733-411 to 733-423	733 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.
733-511 to 733-523	733 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
733-611 to 733-723	733 B88 software	An adapter, device, or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
736-101	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
736-102	736 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
736-103	736 821	The keyboard reset failed. Action: Use MAP 0210: General problem resolution.
736-104	736	Unknown keyboard. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
736-105	736 821	The keyboard light-on test failed. Action: Use MAP 0210: General problem resolution.
736-106	736 821	The keyboard light-off test failed. Action: Use MAP 0210: General problem resolution.
736-201	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
736-202	736 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
736-203	736 821	The read keyboard ID test failed. Action: Use MAP 0210: General problem resolution.
736-204	736	The keyboard layout ID test failed. Action: Use MAP 0210: General problem resolution.
736-205	736 821	The keyboard echo test failed. Action: Use MAP 0210: General problem resolution.
736-206	736 821	The select scan code set test failed. Action: Use MAP 0210: General problem resolution.
736-301	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
736-302	736 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
736-303	736	An error occurred in turning on the lamps. Action: Use MAP 0210: General problem resolution.
736-304	736	An error occurred in turning off the lamps. Action: Use MAP 0210: General problem resolution.
736-401	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
736-402	736 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
736-403	736	Unable to recognize the keyboard. Action: Use MAP 0210: General problem resolution.
736-404	736 821	The keyboard is failing. Action: Use MAP 0210: General problem resolution.
736-701	736 821	Error configuring the device. Action: Use MAP 0210: General problem resolution.
736-901	821	The error log analysis indicates an adapter failure. Action: Use MAP 0210: General problem resolution.
736-902	736 821	The error log analysis indicates a device failure. Action: Use MAP 0210: General problem resolution.
736-903	736 821	The error log analysis indicates an unknown failure. Action: Use MAP 0210: General problem resolution.
741-xxx		See SCSI devices SRNs (ssss-102 to ssss-640).
745-100	media 745	Recovered error. Action: No action required.
745-200	media 745	Drive Not Ready. Action: Install media, refer to the tape autoloader service information.

Service Request Number	Failing Function Codes	Description and Action
745-300 to 745-350	media 745	4-mm Tape Auto Loader problem. Action: Replace media, clean drive, refer to the tape autoloader service information.
745-400	745 magazine media	General Hardware Failure. Action: Replace media, clean drive, refer to the tape autoloader service information.
745-410 to 745-435	745 media	Internal Hardware Failure Action: Replace drive, refer to the tape autoloader service information.
745-440	745 SCSI Adapter	SCSI Hardware Failure. Action: Replace drive, refer to the tape autoloader service information.
745-441 to 745-443	745 media	4-mm Tape Auto Loader problem. Action: Replace drive, refer to the tape autoloader service information.
745-444	745 environment media	Humidity too High Action: Lower humidity, replace media, refer to the tape autoloader service information.
745-445	clean media drive	Drive Requires Cleaning Action: Clean drive, replace media, refer to the tape autoloader service information.
745-460 to 745-465	745 magazine media	Magazine Movement Failure Action: Check magazine and media, clean rollers, refer to the tape autoloader service information.
745-470 to 745-475	745 magazine media	Media Insert/Eject Failure Action: Check clean magazine and media, clean rollers, refer to the tape autoloader service information.
745-480 to 745-485	745 magazine media	Drawer Open/Close Failure Action: Check magazine and media, refer to the tape autoloader service information.
745-500	745 system	Illegal request to drive Action: Software conflict, refer to the tape autoloader service information.
745-600	745 system	Unit Attention Action: Software conflict, media changed, refer to the tape autoloader service information.
745-700	745 media	Not Writeable Action: Check media for write-protect, refer to the tape autoloader service information.
745-800	745 media	Blank Media Action: Check media, refer to the tape autoloader service information.
745-B00	745 SCSI Adapter	SCSI Interface Failure Action: Check SCSI interface, refer to the tape autoloader service information.
745-D00	745 media	Tape Full Action: Check replace media, refer to the tape autoloader service information.
746-101	221	Enhanced error handling failure on the bus. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
746-102	293	Enhanced error handling failure on a PCI-PCI Bridge. Action: Use MAP 0210: General problem resolution.
746-103	746 221	Enhanced error handling failure on the adapter. Action: Use MAP 0210: General problem resolution.
746-212	746	FIFO empty bit set. Action: Use MAP 0210: General problem resolution.
746-213	746	FIFO empty bit clear. Action: Use MAP 0210: General problem resolution.
746-214	746	FIFO full bit set. Action: Use MAP 0210: General problem resolution.
746-215	746	FIFO full bit clear. Action: Use MAP 0210: General problem resolution.
746-216	746	FIFO data miscompare. Action: Use MAP 0210: General problem resolution.
746-217	746	SCSI FIFO data miscompare. Action: Use MAP 0210: General problem resolution.
746-218	746	SCSI FIFO underflow. Action: Use MAP 0210: General problem resolution.
746-219		SCSI parity error. Action: Use MAP 0050: SCSI bus problems
746-220	746	SCSI FIFO flags error. Action: Use MAP 0210: General problem resolution.
746-221	746 221	Miscompare during the write/read of the configuration register. Action: Use MAP 0210: General problem resolution.
746-222	746	Error during the write/read of the memory register. Action: Use MAP 0210: General problem resolution.
746-223	746	Miscompare during the write/read of the memory I/O register. Action: Use MAP 0050: SCSI bus problems.
746-224	746 221	SCSI configuration register read or write error. Action: Use MAP 0210: General problem resolution.
746-225	746	Adapter POST failed. Action: Use MAP 0210: General problem resolution.
746-226		SCSI wrap or PTC failure. Action: Use MAP 0050: SCSI bus problems.
746-227	746 221	SCSI adapter test failure. Action: Use MAP 0210: General problem resolution.
746-230		Arbitration test failed. Action: Use MAP 0050: SCSI bus problems.
746-231		Function could not complete. Action: Use MAP 0050: SCSI bus problems.
746-232		SCSI bus data miscompare. Action: Use MAP 0050: SCSI bus problems.
746-240		No terminal power. Action: Use MAP 0050: SCSI bus problems.
746-242		SCSI bus error. Action: Use MAP 0050: SCSI bus problems.

Service Request Number	Failing Function Codes	Description and Action
746-301	746 221	The parent device open failed. Action: Use MAP 0210: General problem resolution.
746-701	746	Error log analysis indicates a PCI SCSI adapter failure. Action: Use MAP 0210: General problem resolution.
746-801		Error log analysis indicates a terminator problem. Action: Run the diagnostics on the adapter in system verification mode. If an SRN is reported, use the SRN to resolve the problem. If an SRN is not reported, use the SCSI service hints in General SCSI configuration checks to resolve the problem.
746-802		Error log analysis indicates that multiple attempts to reset the SCSI bus have timed out. Action: Run the diagnostics on the adapter in System Verification mode. If an SRN is reported, use the SRN to resolve the problem. If an SRN is not reported, use the SCSI service hints in General SCSI configuration checks to resolve the problem.
746-803		Error log analysis indicates that multiple SCSI bus errors have occurred. Action: Run the diagnostics on the adapter in system verification mode. If an SRN is reported, use the SRN to resolve the problem. If an SRN is not reported, use the SCSI service hints in General SCSI configuration checks to resolve the problem.
747-101	221	Enhanced error handling failure on the bus. Action: Use MAP 0210: General problem resolution.
747-102	293	Enhanced error handling failure on a PCI-PCI Bridge. Action: Use MAP 0210: General problem resolution.
747-103	747 221	Enhanced error handling failure on the adapter. Action: Use MAP 0210: General problem resolution.
747-212	747	FIFO empty bit set. Action: Use MAP 0210: General problem resolution.
747-213	747	FIFO empty bit clear. Action: Use MAP 0210: General problem resolution.
747-214	747	FIFO full bit set. Action: Use MAP 0210: General problem resolution.
747-215	747	FIFO full bit clear. Action: Use MAP 0210: General problem resolution.
747-216	747	FIFO data miscompare. Action: Use MAP 0210: General problem resolution.
747-217	747	SCSI FIFO data miscompare. Action: Use MAP 0210: General problem resolution.
747-218	747	SCSI FIFO underflow. Action: Use MAP 0210: General problem resolution.
747-219		SCSI parity error. Action: Use MAP 0050: SCSI bus problems
747-220	747	SCSI FIFO flags error. Action: Use MAP 0210: General problem resolution.
747-221	747 221	Miscompare during the write/read of the configuration register. Action: Use MAP 0210: General problem resolution.
747-222	747	Error during the write/read of the memory register. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
747-223	747	Miscompare during the write/read of the memory I/O register. Action: Use MAP 0050: SCSI bus problems.
747-224	747 221	SCSI configuration register read or write error. Action: Use MAP 0210: General problem resolution.
747-225	747	Adapter POST failed. Action: Use MAP 0210: General problem resolution.
747-226		SCSI wrap or PTC failure. Action: Use MAP 0050: SCSI bus problems.
747-227	747 221	SCSI adapter test failure. Action: Use MAP 0210: General problem resolution.
747-230		Arbitration test failed. Action: Use MAP 0050: SCSI bus problems.
747-231		Function could not complete. Action: Use MAP 0050: SCSI bus problems.
747-232		SCSI bus data miscompare. Action: Use MAP 0050: SCSI bus problems.
747-240		No terminal power. Action: Use MAP 0050: SCSI bus problems.
747-242		SCSI bus error. Action: Use MAP 0050: SCSI bus problems.
747-301	747 221	The parent device open failed. Action: Use MAP 0210: General problem resolution.
747-701	747	Error log analysis indicates a PCI SCSI adapter failure. Action: Use MAP 0210: General problem resolution.
747-801		Error log analysis indicates a terminator problem. Action: Run the diagnostics on the adapter in system verification mode. If an SRN is reported, use the SRN to resolve the problem. If an SRN is not reported, use the SCSI service hints in General SCSI configuration checks to resolve the problem.
747-802		Error log analysis indicates that multiple attempts to reset the SCSI bus have timed out. Action: Run the diagnostics on the adapter in system verification mode. If an SRN is reported, use the SRN to resolve the problem. If an SRN is not reported, use the SCSI service hints in General SCSI configuration checks to resolve the problem.
747-803		Error log analysis indicates that multiple SCSI bus errors have occurred. Action: Run the diagnostics on the adapter in system verification mode. If an SRN is reported, use the SRN to resolve the problem. If an SRN is not reported, use the SCSI service hints in General SCSI configuration checks to resolve the problem.
749-xxx	749	7331 Model 205 Tape Library. Refer to service documentation for this device.
757-110	757	The Reserve command failed. Action: Use MAP 0210: General problem resolution.
757-120	757	The Inquiry command failed. Action: Use MAP 0210: General problem resolution.
757-130	757 media	The Load command failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
757-135	757 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
757-140	757	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
757-150	757 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
757-160	757 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
757-169	757 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
757-170	757 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
757-180	757 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
757-185	757 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
757-190	757	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
757-200	757 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
757-210	757 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
757-220	757	The Release command failed. Action: Use MAP 0210: General problem resolution.
757-230	757	The Request Sense command failed. Action: Use MAP 0210: General problem resolution.
757-240	757	The Openx command failed. Action: Use MAP 0210: General problem resolution.
757-300	757 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
757-310	B88 757 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
757-320	757 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
757-411 to 757-423	757 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.
757-511 to 757-523	757 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
757-611 to 757-623	757 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
757-711 to 757-723	757 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
759-xxx		See "SCSD Devices SRNs (ssss-102 to ssss-640)" on page 784. Action: Use MAP 0210: General problem resolution.
763-1xx	763 software 221	Problem detected with a device or device data corrupted. Note: You may need to reinstall ssp.css software.
763-200 to 763-299	ext clock 763 wrap plug	Problem detected with the external clock (SP switch). Notes: 1. Refer to your <i>SP Maintenance Information</i> for the external clock FRU part number. 2. The wrap plug FRU part number is listed under the 763 FFC.
763-2A0 to 763-2A9	763	Problem detected with the internal clock. Action: Use MAP 0210: General problem resolution.
763-3xx	763 221	Problem detected with the POS registers. Action: Use MAP 0210: General problem resolution.
763-4xx	763 software	TBIC test failed. Action: Use MAP 0210: General problem resolution.
763-5xx	763	SRAM test failed. Action: Use MAP 0210: General problem resolution.
763-6xx	763	Microprocessor test failed. Action: Use MAP 0210: General problem resolution.
763-7xx	763	Interrupt test failed. Action: Use MAP 0210: General problem resolution.
763-8xx	763	FIFO test failed. Action: Use MAP 0210: General problem resolution.
763-9xx	763 221 Switch- cable	DMA engine test failed. Note: Refer to your <i>SP Maintenance Information</i> for the switch cable FRU part number.
763-Ax3	763 terminator	Card wrap test failed. Note: The terminator FRU part number is listed under the 763 FFC. Action: Use MAP 0210: General problem resolution.
763-Ax4	Switch- cable wrap plug	Card wrap test failed. Notes: 1. Refer to your <i>SP Maintenance Information</i> for the switch cable FRU part number. 2. The wrap plug FRU part number is listed under the 763 FFC.
763-xx2	763	Bad adapter card. (except for SRN 763-282) Action: Replace the SP Switch MX Adapter.
764-1xx	764 software 221	Problem detected with a device or device data corrupted. Note: You may need to reinstall ssp.css software.
764-200 to 764-299	ext clock 764 wrap plug	Problem detected with the external clock (SP switch). Notes: 1. Refer to your <i>SP Maintenance Information</i> for the external clock FRU part number. 2. The wrap plug FRU part number is listed under the 763 FFC.

Service Request Number	Failing Function Codes	Description and Action
764-2A0 to 764-2A9	764	Problem detected with the internal clock. Action: Use MAP 0210: General problem resolution.
764-3xx	764 221	Problem detected with the POS registers. Action: Use MAP 0210: General problem resolution.
764-4xx	764 software	TBIC test failed. Action: Use MAP 0210: General problem resolution.
764-5xx	764	SRAM test failed. Action: Use MAP 0210: General problem resolution.
764-6xx	764	Microprocessor test failed. Action: Use MAP 0210: General problem resolution.
764-7xx	764	Interrupt test failed. Action: Use MAP 0210: General problem resolution.
764-8xx	764	FIFO test failed. Action: Use MAP 0210: General problem resolution.
764-9xx	764 221 switch- cable	DMA engine test failed. Note: Refer to your <i>SP Maintenance Information</i> for the switch cable FRU part number.
764-Ax3	764 terminator	Card wrap test failed. Note: The terminator FRU part number is listed under the 763 FFC.
764-Ax4	Switch- cable wrap plug	Card wrap test failed. Notes: 1. Refer to your <i>SP Maintenance Information</i> for the switch cable FRU part number. 2. The wrap plug FRU part number is listed under the 763 FFC.
764-xx2	764	Bad adapter card. (except for SRN 764-282) Action: Replace the SP Switch MX Adapter.
772-xxx to 774-xxx		See SCSI devices SRNs (ssss-102 to ssss-640).
776-101	D46	External Test Failure. Action: Use MAP 0210: General problem resolution.
776-102	240	External Test Failure. Action: Use MAP 0210: General problem resolution.
776-103	776	I/O Test Failure. Action: Use MAP 0210: General problem resolution.
776-104	776 221	Adapter On-card Test Failure. Action: Use MAP 0210: General problem resolution.
776-105	776	Wrap Test Failure. Action: Use MAP 0210: General problem resolution.
776-106	D46	Wrap Test Failure. Action: Use MAP 0210: General problem resolution.
776-106	776	Enhanced error handling failure on bus. Action: Use MAP 0210: General problem resolution.
776-107	776	Enhanced error handling failure on Eads chip. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
776-108	776	Enhanced error handling failure on adapter. Action: Use MAP 0210: General problem resolution.
776-201	776 221	Configuration Register Test Failure. Action: Use MAP 0210: General problem resolution.
776-202	776 221	Wrap Test Failure. Action: Use MAP 0210: General problem resolution.
776-203	D46 776	Wrap Test Failure. Action: Use MAP 0210: General problem resolution.
776-204	776 221	Connect Test Failure. Action: Use MAP 0210: General problem resolution.
776-205	D46 776	External Test Failure. Action: Run advanced diagnostics with wrap test for this resource to obtain correct problem isolation. Action: Use MAP 0210: General problem resolution.
776-206	776 221	Wrap Test Failure. Action: Use MAP 0210: General problem resolution.
776-301	D46 240 776	External Test Failure. Action: Use MAP 0210: General problem resolution.
776-302	D46 776 221	External Test Failure. Action: Run advanced diagnostics with wrap test for this resource to obtain correct problem isolation.
776-303	240 D46 776	External Test Failure. Action: Run advanced diagnostics with wrap test for this resource to obtain correct problem isolation.
776-304	D46 776 221	Connect Wrap Test Failure. Action: Use MAP 0210: General problem resolution.
776-305	D46 776 221	Wrap Test Failure. Action: Use MAP 0210: General problem resolution.
776-306	D46 776 221	Wrap Test Failure. Action: Use MAP 0210: General problem resolution.
776-401	240 D46 776 221	External Test Failure. Action: Run advanced diagnostics with wrap test for this resource to obtain correct problem isolation.
776-404	240 D46 776 221	Connect Test Failure. Action: Use MAP 0210: General problem resolution.
776-405	240 D46 776 221	Wrap Test Failure. Action: Use MAP 0210: General problem resolution.
776-406	240 D46 776 221	Wrap Test Failure. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
776-414	240 D46 776 221	Connect Test Failure. This failure occurs if not connected to a functional Token-Ring network. Action: Run advanced diagnostics for this resource to obtain correct problem isolation.
776-415	240 D46 776 221	Wrap Test Failure. This failure occurs if not connected to a functional Token-Ring network. Action: Run advanced diagnostics for this resource to obtain correct problem isolation.
776-416	240 D46 776 221	Wrap Test Failure. This failure occurs if not connected to a functional Token-Ring network. Action: Run advanced diagnostics for this resource to obtain correct problem isolation.
776-701	776	ELA indicates an adapter error occurred. Action: Use MAP 0210: General problem resolution.
776-702	776 221	ELA indicates an adapter check occurred. Action: Use MAP 0210: General problem resolution.
776-703	776 221	ELA indicates a DMA failure occurred. Action: Use MAP 0210: General problem resolution.
776-704	776 221	ELA indicates a PCI bus failure occurred. Action: Use MAP 0210: General problem resolution.
776-705	776 221	ELA indicates a Programmed I/O failure occurred. Action: Use MAP 0210: General problem resolution.
776-706	776	ELA indicates a command write failure occurred. Action: Use MAP 0210: General problem resolution.
776-707	776	ELA indicates an internal adapter error has occurred. Action: Use MAP 0210: General problem resolution.
778-002	software 778	Software error. Action: Use MAP 0210: General problem resolution.
778-004	software 778	Software error. Action: Use MAP 0210: General problem resolution.
778-009	software 778	Software error. Action: Use MAP 0210: General problem resolution.
778-011	software 778	Software error. Action: Use MAP 0210: General problem resolution.
778-017	software 778	Software error. Action: Use MAP 0210: General problem resolution.
778-019	778 software	Adapter failure. Action: Use MAP 0210: General problem resolution.
778-030	778 221	Adapter failure. Action: Use MAP 0210: General problem resolution.
778-032	software 778	Software error. Action: Use MAP 0210: General problem resolution.
778-033	software 778	Software error. Action: Use MAP 0210: General problem resolution.
778-035	778 software	Adapter failure. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
778-036 to 778-072	software 778	Software error. Action: Use MAP 0210: General problem resolution.
778-073	778 221	Adapter failure. Action: Use MAP 0210: General problem resolution.
778-075	software 778	Software error. Action: Use MAP 0210: General problem resolution.
778-076	778 software	Software error. Action: Use MAP 0210: General problem resolution.
778-301 to 778-D02	778 221	Adapter failure. Action: Use MAP 0210: General problem resolution.
778-E01	software 778	Software error. Action: Use MAP 0210: General problem resolution.
778-E02 to 778-1401	778 221	Adapter failure. Action: Use MAP 0210: General problem resolution.
778-1402	software 778	Software error. Action: Use MAP 0210: General problem resolution.
778-1403 to 778-1405	778 221	Adapter failure. Action: Use MAP 0210: General problem resolution.
778-1500	778 software	Adapter failure. Action: Use MAP 0210: General problem resolution.
778-1600 to 778-1604	778 902	Adapter failure. Action: Use MAP 0210: General problem resolution.
778-2501 to 778-2508	778 221	Adapter error. Action: Use MAP 0210: General problem resolution.
778-2509 to 778-2511	software 778	Software error. Action: Use MAP 0210: General problem resolution.
778-2601 to 778-2602	778 221	Adapter error. Action: Use MAP 0210: General problem resolution.
778-2603	software 778	Software error. Action: Use MAP 0210: General problem resolution.
77C-xxx		See SCSI devices SRNs (ssss-102 to ssss-640).
780-101	780 227	Adapter logic test failure. Action: Use MAP 0210: General problem resolution.
780-102	780	Adapter logic test failure. Action: Use MAP 0210: General problem resolution.
780-109	780	Adapter channel Input/Output test failure. Action: Use MAP 0210: General problem resolution.
780-113	780	Adapter Serial Communication Controller (SCC) test failure. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
780-114	780 227	Adapter logic test failure. Action: Use MAP 0210: General problem resolution.
780-120	780 227 software	Adapter could not be detected or configured. Action: Use MAP 0210: General problem resolution.
780-140	271 780	An error was found with the X.21 interface adapter cable. Action: Use MAP 0210: General problem resolution.
780-150	272 780	An error was found with the X.24 interface adapter cable. Action: Use MAP 0210: General problem resolution.
780-160	273 780	An error was found with the X.35 interface adapter cable. Action: Use MAP 0210: General problem resolution.
780-170	780	The adapter hardware failed. Action: Use MAP 0210: General problem resolution.
780-180	780	The adapter hardware failed. Action: Use MAP 0210: General problem resolution.
780-190	780	The adapter hardware failed. Action: Use MAP 0210: General problem resolution.
780-210	780 185	An error was found on the adapter. Action: Use MAP 0210: General problem resolution.
780-211	780 227	The adapter card POST test failed. Action: Use MAP 0210: General problem resolution.
780-230	780	The adapter card hardware failed. Action: Use MAP 0210: General problem resolution.
780-232	780 227	The adapter card hardware failed. Action: Use MAP 0210: General problem resolution.
780-240	780	The adapter card hardware failed. Action: Use MAP 0210: General problem resolution.
780-250	185 780	An error was found on the adapter. Action: Use MAP 0210: General problem resolution.
780-260	780	The adapter card hardware failed. Action: Use MAP 0210: General problem resolution.
780-270	780	The adapter card hardware failed. Action: Use MAP 0210: General problem resolution.
780-280	780	The adapter card hardware failed. Action: Use MAP 0210: General problem resolution.
780-290	780	The adapter card hardware failed. Action: Use MAP 0210: General problem resolution.
780-300	780	An adapter error was found during error log analysis. Action: Use MAP 0210: General problem resolution.
780-310	780 185	An adapter error was found during error log analysis. Action: Use MAP 0210: General problem resolution.
780-320	780 227	An adapter error was found during error log analysis. Action: Use MAP 0210: General problem resolution.
780-330	780 227	Error log analysis indicates a hardware problem. Action: Use MAP 0210: General problem resolution.
780-400	780 227	A software error was caused by a hardware failure. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
780-700	780 227 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
780-720	780	Cable wrap test failed. Action: Use MAP 0210: General problem resolution.
780-721	780	Port wrap test failed. Action: Use MAP 0210: General problem resolution.
780-722	780	Cable wrap test failed. Action: Use MAP 0210: General problem resolution.
781-101	781 227	ROS POST adapter software initialization error. Action: Use MAP 0210: General problem resolution.
781-102	781	Extended DRAM SIP test failed. Action: Use MAP 0210: General problem resolution.
781-103	781	ROS checksum test failed. Action: Use MAP 0210: General problem resolution.
781-104	781 227	Adapter download diagnostics failed Action: Use MAP 0210: General problem resolution.
781-105	781 227	Memory size test failed. Action: Use MAP 0210: General problem resolution.
781-106	781 227	Interface ID test failed. Action: Use MAP 0210: General problem resolution.
781-107	781 227	EIB ID test failed. Action: Use MAP 0210: General problem resolution.
781-108	781 227	ROS version test failed. Action: Use MAP 0210: General problem resolution.
781-109	781	DUSCC register test failed. Action: Use MAP 0210: General problem resolution.
781-111	781	DMA register test failed. Action: Use MAP 0210: General problem resolution.
781-112	781	X.21 PAL test failed. Action: Use MAP 0210: General problem resolution.
781-113	781	External wrap test failed. Action: Use MAP 0210: General problem resolution.
781-114	781 227	Twin tail logic test failed. Action: Use MAP 0210: General problem resolution.
781-116	254	The RS232 cable wrap test failed. Action: Use MAP 0210: General problem resolution.
781-117	253	The RS422A cable wrap test failed. Action: Use MAP 0210: General problem resolution.
781-118	257	The V.35 cable wrap test failed. Action: Use MAP 0210: General problem resolution.
781-119	260	The X.21 cable wrap test failed. Action: Use MAP 0210: General problem resolution.
781-120	781 227 software	The adapter was not detected or could not be configured. test failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
781-121	781 227 software	The 4-port jumper cable assembly wrap test failed. Action: Use MAP 0210: General problem resolution.
781-200	781	The error log analysis indicates the adapter failed. Action: Use MAP 0210: General problem resolution.
781-221	781 227	The error log analysis indicates the adapter hardware failed. Action: Use MAP 0210: General problem resolution.
781-231	227	No interface card detected. Action: Use MAP 0210: General problem resolution.
781-501	B77 B69 227	The power-on self-test (POST) failed. Action: Use MAP 0210: General problem resolution.
781-502	B77	The memory module failed. Action: Use MAP 0210: General problem resolution.
781-503	781 227	Adapter hardware failure. Action: Use MAP 0210: General problem resolution.
781-504	B69	Adapter hardware failure. Action: Use MAP 0210: General problem resolution.
781-505	B71 B69	Adapter hardware failure. Action: Use MAP 0210: General problem resolution.
781-506	B72 B69	Adapter hardware failure. Action: Use MAP 0210: General problem resolution.
781-507	B73 B69	Adapter hardware failure. Action: Use MAP 0210: General problem resolution.
781-508	B74 B69	Adapter hardware failure. Action: Use MAP 0210: General problem resolution.
781-516	B77 B69	Adapter Test Failure. Action: Use MAP 0210: General problem resolution.
781-517	B69 B77	Adapter Test Failure. Action: Use MAP 0210: General problem resolution.
781-720	258 781	4-port multiprotocol cable Action: Use MAP 0210: General problem resolution.
783-110	783	The Reserve command failed. Action: Use MAP 0210: General problem resolution.
783-120	783	The Inquiry command failed. Action: Use MAP 0210: General problem resolution.
783-130	783 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
783-135	783 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
783-140	783	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
783-150	783 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
783-160	783 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
783-169	783 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
783-170	783 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
783-180	783 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
783-185	783 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
783-190	783	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
783-200	783 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
783-210	783 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
783-220	783	The Release command failed. Action: Use MAP 0210: General problem resolution.
783-230	783	The Request Sense command failed. Action: Use MAP 0210: General problem resolution.
783-240	783	The Openx command failed. Action: Use MAP 0210: General problem resolution.
783-300	783 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
783-310	B88 783 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
783-320	783 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
783-411 to 783-423	783 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.
783-511 to 783-523	783 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
783-611 to 783-623	783 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
783-711 to 783-723	783 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.
784-xxx		See SCSI devices SRNs (ssss-102 to ssss-640).
785-111	785 227	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
785-114	785	The register verification test failed. Action: Use MAP 0210: General problem resolution.
785-121	785 227	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
785-122	785 227	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
785-123	785 227	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
785-124	785	The memory test failed. Action: Use MAP 0210: General problem resolution.
785-151	785 D57	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
785-152	785 D57	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
785-153	785 D57	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
785-171	259	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
785-172	259	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
785-173	259	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
785-181	261	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
785-182	261	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
785-183	261	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
785-251	785 D57	Could not perform because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
785-252	785 D57	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
785-253	785 D57	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
785-271	785 D57	Could not perform because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
785-272	785 D57	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
785-273	785 D57	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
785-281	785 D57	Could not perform because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
785-282	785 D57	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
785-283	785 D57	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
785-481	D57	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
785-482	D57	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
785-483	D57	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
785-901 to 785-920	software 785	An unexpected error occurred that can be attributed to software or hardware. Action: Run diagnostics from a source other than from the disk or a network. If the same error occurs or if the original SRN was not obtained from disk or a network based diagnostics, use MAP 0210: General problem resolution with a FFC of 785; otherwise, suspect a software problem.
785-921	785 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
785-922 to 785-924	software 785	An unexpected error occurred that can be attributed to software or hardware. Action: Run diagnostics from a source other than from the disk or a network. If the same error occurs or if the original SRN was not obtained from disk or a network based diagnostics, use MAP 0210: General problem resolution with a FFC of 785; otherwise, suspect a software problem.
785-925	785 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
785-926 to 785-943	software 785	An unexpected error occurred that can be attributed to software or hardware. Action: Run diagnostics from a source other than from the disk or a network. If the same error occurs or if the original SRN was not obtained from disk or a network based diagnostics, use MAP 0210: General problem resolution with a FFC of 785; otherwise, suspect a software problem.
786-200	786 D96 227	Initiation failed. Note: You must determine which of the first two FFCs is installed in the system unit. Action: Use MAP 0210: General problem resolution.
786-210	786 227	The adapter test failed. Action: Use MAP 0210: General problem resolution.
786-211	D96 227	The adapter test failed. Action: Use MAP 0210: General problem resolution.
786-220	786 Cable Monitor	The display test failed. Action: Use MAP 0210: General problem resolution.
786-221	D96 Cable Monitor	The display test failed. Action: Use MAP 0210: General problem resolution.
786-710	786 227	The ELA indicates HW failure. Action: Use MAP 0210: General problem resolution.
786-711	D96 227	The ELA indicates HW failure. Action: Use MAP 0210: General problem resolution.
787-100	787	GXT500P Graphics Adapter. Action: Use MAP 0210: General problem resolution.
787-101	787 227	GXT500P Graphics Adapter. Action: Use MAP 0210: General problem resolution.
787-1AA	787 RGB Cable Display	GXT500P Graphics Adapter. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
787-1xx	787	GXT500P Graphics Adapter. Action: Use MAP 0210: General problem resolution.
787-200	D95	GXT550P Graphics Adapter. Action: Use MAP 0210: General problem resolution.
787-201	D95 227	GXT550P Graphics Adapter. Action: Use MAP 0210: General problem resolution.
787-2AA	D95 RGB Cable Display	GXT550P Graphics Adapter. Action: Use MAP 0210: General problem resolution.
787-2xx	D95	GXT550P Graphics Adapter. Action: Use MAP 0210: General problem resolution.
788-001	788 227	Adapter Error. Action: Use MAP 0210: General problem resolution.
788-002	software 788	System Error. Action: Use MAP 0210: General problem resolution.
788-003	software 788	System Error. Action: Use MAP 0210: General problem resolution.
788-004	788 software	System Error. Action: Use MAP 0210: General problem resolution.
789-101	789	Failed to release the device. Action: Use MAP 0210: General problem resolution.
789-102	789	Failed to reserve the device. Action: Use MAP 0210: General problem resolution.
789-103	789	The device motor failed to start. Action: Use MAP 0210: General problem resolution.
789-104	789	Failed to make the device ready. Action: Use MAP 0210: General problem resolution.
789-105	789	Failed to get the inquiry data. Action: Use MAP 0210: General problem resolution.
789-106	789	The Prevent Media Removal command failed. Action: Use MAP 0210: General problem resolution.
789-107	789	The Allow Media Removal command failed. Action: Use MAP 0210: General problem resolution.
789-200	789 Optical- Disk	The optical disk failed to load. Action: Change the media. Run diagnostics on the changed media in system verification mode. If the error reoccurs use MAP 0210: General problem resolution; otherwise, replace the media.
789-201	789 Optical- Disk	Failed to unload the optical disk. Action: Change the media. Run diagnostics on the changed media in system verification mode. If the errors reoccur use MAP 0210: General problem resolution; otherwise, replace the media.
789-202	789 Optical- Disk	The diagnostic test failed. Action: Change the media. Run diagnostics on the changed media in system verification mode. If errors do not reoccur, replace the media; otherwise, run the drive cleaning procedures if applicable and rerun the diagnostics. If errors reoccur, or the drive does not support the cleaning procedures use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
789-204	789 B88	The device failed to configure. Action: Use MAP 0210: General problem resolution.
789-205	789 Optical-Disk	The Test Unit Ready command failed. Action: Change the media. Run diagnostics on the changed media in system verification mode. If the error reoccurs, use MAP 0210: General problem resolution; otherwise, replace the media.
789-206	789 Optical-Disk	The random write, read and compare test failed. Action: Change the media. Run diagnostics on the changed media in system verification mode. If the errors do not reoccur, replace the media; otherwise, run the drive cleaning procedures if applicable, and rerun diagnostics. If the errors reoccur, or the drive does not support cleaning procedures, use MAP 0210: General problem resolution.
789-207	789 Optical-Disk	A hardware error occurred. Action: Change the media. Run diagnostics on the changed media in system verification mode. If the errors do not reoccur, replace the media; otherwise, run the drive cleaning procedures if applicable, and rerun diagnostics. If the errors reoccur, or the drive does not support cleaning procedures, use MAP 0210: General problem resolution.
789-208	789 Optical-Disk	The Mode Sense command failed. Action: Change the media. Run diagnostics on the changed media in system verification mode. If the errors do not reoccur, replace the media; otherwise, run the drive cleaning procedures if applicable, and rerun diagnostics. If the errors reoccur, or the drive does not support cleaning procedures, use MAP 0210: General problem resolution.
789-209	789 Optical-Disk	The Mode Select command failed. Action: Change the media. Run diagnostics on the changed media in system verification mode. If the errors do not reoccur, replace the media; otherwise, run the drive cleaning procedures if applicable, and rerun diagnostics. If the errors reoccur, or the drive does not support cleaning procedures, use MAP 0210: General problem resolution.
789-300	789 B88 software	A SCSI reservation conflict has occurred. Action: Use MAP 0210: General problem resolution.
789-400	789 B88 Cables software	A SCSI command time out has occurred. Action: Use MAP 0210: General problem resolution.
789-401	Optical-Disk 190 B88 software	An unknown error has occurred. Action: Use MAP 0210: General problem resolution.
789-402	Optical-Disk 190 B88 software	Unit attention condition has occurred. Action: Use MAP 0210: General problem resolution.
789-600	Optical-Disk	ELA indicates that the spare sectors on the disk are exhausted. Action: Backup the media and replace it. Note: Use the time when the error occurred and the "Spare Sector Availability" service aid to identify the disk that has the error.

Service Request Number	Failing Function Codes	Description and Action
789-700	789 Optical-Disk	The ELA indicates an equipment error. Action: Run diagnostics in system verification mode to isolate the problem. If errors are reported, use MAP 0210: General problem resolution; otherwise, the error is due to faulty media. Backup the media and then replace it. Note: Use the time when the error occurred to identify the faulty media.
789-701	Optical-Disk 789	ELA indicates an irrecoverable data error. Action: Run diagnostics in system verification mode to isolate the problem. If errors are reported, use MAP 0210: General problem resolution; otherwise, the error is due to faulty media. Backup the media and then replace it. Note: Use the time when the error occurred to identify the faulty media.
789-702	789 B88 Cables	ELA indicates that the adapter detected an error. Action: Use the 7209 Installation and Service information. If the unit checks out to be good, use MAP 0210: General problem resolution.
78B-001	Software 78B	Software error. Action: Use MAP 0210: General problem resolution.
78B-002	78B Software	Adapter failure. Action: Use MAP 0210: General problem resolution.
78B-003	78B 227	Adapter failure. Action: Use MAP 0210: General problem resolution.
78B-004	78B Monitor/ Cable	Adapter or display failure. Action: Use MAP 0210: General problem resolution.
78B-005	78B 227 Monitor/ Cable	Adapter failure. Action: Use MAP 0210: General problem resolution.
78D-001	software 78D	Software error. Action: Use MAP 0210: General problem resolution.
78D-002	78D software	Adapter failure. Action: Use MAP 0210: General problem resolution.
78D-003	78D 227	Adapter failure. Action: Use MAP 0210: General problem resolution.
78D-004	78D Monitor/ Cable	Display failure. Action: Use MAP 0210: General problem resolution.
78D-005	78D 227 Monitor/ Cable	Adapter failure. Action: Use MAP 0210: General problem resolution.
790-101	790	Configuration Register Test failure. Action: Use MAP 0210: General problem resolution.
790-102	790	I/O test failure. Action: Use MAP 0210: General problem resolution.
790-103	790	Adapter initialization test failure. Action: Use MAP 0210: General problem resolution.
790-104	790	Internal wrap test failure. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
790-105	790	Internal wrap test failure. Action: Use MAP 0210: General problem resolution.
790-106	790	External wrap (10 Mbps) test failure. Action: Use MAP 0210: General problem resolution.
790-107	790	Internal wrap test failure. Action: Use MAP 0210: General problem resolution.
790-108	790	External wrap (100 Mbps) test failure. Action: Use MAP 0210: General problem resolution.
790-109	790	External wrap (10 Mbps) test failure. Action: Use MAP 0210: General problem resolution.
790-121	790	Configuration register test failure. Action: Use MAP 0210: General problem resolution.
790-122	790	I/O register test failure. Action: Use MAP 0210: General problem resolution.
790-124	790	Internal loopback test failure. Action: Use MAP 0210: General problem resolution.
790-125	790	Internal loopback test failure. Action: Use MAP 0210: General problem resolution.
790-126	790	External loopback test failure. Action: Use MAP 0210: General problem resolution.
790-150	B08	10Base-T transceiver test failure. Action: Use MAP 0210: General problem resolution.
790-151	B09	10Base-2 transceiver test failure. Action: Use MAP 0210: General problem resolution.
790-223	790 software	Device configuration failure. Action: Use MAP 0210: General problem resolution.
790-224	B08 790	10 Base-T transceiver test failure. Action: Use MAP 0210: General problem resolution.
790-225	B09 790	10 Base-2 transceiver test failure. Action: Use MAP 0210: General problem resolution.
790-250	B08 790	10 Base-T transceiver test failure. Action: Use MAP 0210: General problem resolution.
790-251	B09 790	10 Base-2 transceiver test failure. Action: Use MAP 0210: General problem resolution.
790-701	790	Error Log Analysis indicates that the adapter is not responding to initialization commands. Action: Use MAP 0210: General problem resolution.
790-702	790	Error Log Analysis indicates that the device driver has detected a PIO error which it was unable to correct. Action: Use MAP 0210: General problem resolution.
790-703	790	Error Log Analysis indicates that the adapter has been shutdown due to an unrecoverable error. Action: Use MAP 0210: General problem resolution.
790-704	790	Error Log Analysis indicates a problem with EEPROM on the adapter. Action: Use MAP 0210: General problem resolution.
790-720	790 software	Error log analysis indicates a hardware problem. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
791-xxx to 793-xxx		See SCSI devices SRNs (ssss-102 to ssss-640).
799-101	2C3 799	External wrap test failed on port 0. Action: Use MAP 0210: General problem resolution
799-102	2C3 799	External wrap test failed on port 1. Action: Use MAP 0210: General problem resolution
799-201	799 227	Internal adapter test failed. Action: Use MAP 0210: General problem resolution.
799-202	799 227	External wrap test failed on port 0. Action: Use MAP 0210: General problem resolution.
799-203	799 227	External wrap test failed on port 1. Action: Use MAP 0210: General problem resolution.
799-204	2C3 799	External wrap test failed on port 0. Action: Use MAP 0210: General problem resolution.
799-205	2C3 799	External wrap test failed on port 1. Action: Use MAP 0210: General problem resolution.
799-206	2C3 799 software	External wrap test failed on port 0. Action: Use MAP 0210: General problem resolution.
799-207	2C3 799 software	External wrap test failed on port 1. Action: Use MAP 0210: General problem resolution.
799-301	799 227 software	Internal adapter test failed. Action: Use MAP 0210: General problem resolution.
799-302	799 227 software	External wrap test failed on port 0. Action: Use MAP 0210: General problem resolution.
799-303	799 227 software	External wrap test failed on port 1. Action: Use MAP 0210: General problem resolution.
799-304	2C3 799 software	External wrap test failed on port 0. Action: Use MAP 0210: General problem resolution.
799-305	2C3 799 software	External wrap test failed on port 1. Action: Use MAP 0210: General problem resolution.
799-700	799 software	Error log analysis indicates a hardware problem. Action: Use MAP 0210: General problem resolution.

SRNs 801-xxxx through 899-xxx

Note: Some SRNs in this chapter may have 4 rather than 3 digits after the dash (-).

Service Request Number	Failing Function Codes	Description and Action
801-xxxx	xxxx E10 227	No LED value could be determined for the missing resource. Note: Note: To obtain the FFC substitute the last three or four digits of the SRN following the dash (-) for xxxx. (The substituted xxxx is the FFC). Action: Use MAP 0210: General problem resolution.
802-655	655	A resource was not detected that was previously installed. Action: Use MAP 0210: General problem resolution.
802-657	657	A resource was not detected that was previously installed. Action: Use MAP 0210: General problem resolution.
802-67E	67E	A resource was not detected that was previously installed. Action: Use MAP 0210: General problem resolution.
802-684	684 687	A potential problem with the RS422 concentrator exists. Action: Use MAP 0210: General problem resolution.
802-787	787 D95	The diagnostics did not detect an installed resource. Action: Use MAP 0210: General problem resolution.
802-78D	78D	A resource was not detected that was previously installed. Action: Use MAP 0210: General problem resolution.
802-80c	80c	A potential problem with a SSA adapter exists. If the system has external SSA drives refer to the <i>SSA Adapters User's Guide and Maintenance Information</i> or the service information for your disk subsystem. If the system has internal SSA drives, go to the SSA MAP in either the system unit's service guide or user's guide.
802-837	837 687 E10 227	A potential problem with the Enhanced Remote Async Node exists. Action: Use MAP 0210: General problem resolution.
802-2592	2592 199 E10 227	The DVD-ROM that was previously installed was not detected. Action: Use MAP 0210: General problem resolution.
802-xxxx	xxxx E10 227	The diagnostics did not detect an installed resource. Note: To obtain the FFC substitute the last three or four digits of the SRN following the dash (-) for xxxx. (The substituted xxxx is the FFC). Action: Use MAP 0210: General problem resolution.
803-xxxx	xxxx	A software error occurred while running the diagnostics which could be caused by either hardware or software. Note: This SRN can also occur if file the system is full, particularly in the / , /var, or /tmp directories (verify using the df command at the AIX prompt, make sure %Used is 90% or less for each file system). Action: Run standalone diagnostics. If you get a different SRN, use it in place of the original SRN. If you get the same SRN, use the last three or four digits of the 803-xxx(x) as the FFC and go to MAP 0210: General problem resolution. If you get no error from the standalone diagnostics, you may have a problem with the software, contact your support center. Note: xxxx corresponds to the last three or four digits of the SRN. If your 803-xxx(x) SRN is not listed, substitute the last three or four digits of the SRN after the dash (-) for xxx(x), then proceed to the FFC table using the substituted digits as your FFC.

Service Request Number	Failing Function Codes	Description and Action
807-102	807	A critical failure has occurred on an undefined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-103	807	Non-critical failure has occurred on an undefined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-104	807	An unrecoverable failure has occurred on an undefined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-122	152	A critical power supply failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-123	152	A non-critical power supply failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-124	152	An unrecoverable power supply failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-132	166 807	A critical fan failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-133	166 807	A non-critical fan failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-134	166 807	An unrecoverable fan failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-148	166 807	The enclosure indicates a temperature threshold warning. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-149	166 807	The enclosure indicates a temperature threshold failure. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-152	807	A critical repeater card failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-153	807	A non-critical repeater card failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-154	807	An unrecoverable repeater card failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-162	807	A critical VPD module failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-163	807	A non-critical VPD module failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-164	807	An unrecoverable VPD module failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-172	807	A critical enclosure services failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-173	807	A non-critical enclosure services failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-174	807	An unrecoverable enclosure services failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-182	807	A critical failure has occurred on a user defined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-183	807	A non-critical failure has occurred on a user defined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-184	807	An unrecoverable failure has occurred on a user defined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.

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Service Request Number	Failing Function Codes	Description and Action
807-192	807	A critical failure has occurred on a user defined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-193	807	A non-critical failure has occurred on a user defined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-194	807	An unrecoverable failure has occurred on a user defined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-201	807 891	Device configuration error. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-202	807 891	The enclosure failed to open. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-203	807 891	The enclosure failed to return inquiry data. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-204	152 166	There is a critical power supply or fan failure. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
807-205	152 166	There is a redundant power supply or fan failure. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
80C-xxx	80C	A potential problem with an SSA device exists. The SSA service aid might be of some help it provides, it provides tools for diagnosing and resolving problems on SSA-attached devices. Also refer to the <i>SSA Adapters User's Guide and Maintenance Information</i> .
814-112	814	The NVRAM test failed. Action: Use MAP 0210: General problem resolution.
814-113	221	The VPD test failed. Action: Use MAP 0210: General problem resolution.
814-114	814	I/O Card NVRAM test failed. Action: Use MAP 0210: General problem resolution.
815-100	815	The floating-point processor test failed. Action: Use MAP 0210: General problem resolution.
815-101	815	Floating point processor failed. Action: Use MAP 0210: General problem resolution.
815-102	815	Floating point processor failed. Action: Use MAP 0210: General problem resolution.
815-200	815 7C0	Power-on self-test indicates a processor failure. Action: Use MAP 0210: General problem resolution.
815-201	815	Processor has a status of failed. Processors with a failed status are deconfigured and therefore cannot be tested or used by the system. Action: Use MAP 0210: General problem resolution.
816-140	165 816	The four-digit display test failed. Action: Use MAP 0210: General problem resolution.
817-123	817	The I/O planar time-of-day clock test failed. Action: Use MAP 0210: General problem resolution.
817-124	817	Time of day RAM test failed. Action: Use MAP 0210: General problem resolution.
817-210	817	The time-of-day clock is at POR. Action: Use MAP 0210: General problem resolution.
817-211	817 169	Time of day POR test failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
817-212	151 816	The battery is low. Action: Use MAP 0210: General problem resolution.
817-213	817	The real-time clock is not running. Action: Use MAP 0210: General problem resolution.
817-215	817	Time of day clock not running test failed. Action: Use MAP 0210: General problem resolution.
817-217	817 169	Time of day clock not running. Action: Use MAP 0210: General problem resolution.
821-111	821 B31	Unexpected results from the test. Action: Use MAP 0210: General problem resolution.
821-332	821 software	Cannot open device. Action: Use MAP 0210: General problem resolution.
823-111	823	Standard Mouse adapter failed. Action: Use MAP 0210: General problem resolution.
823-134	823 software	Cannot open device. Action: Use MAP 0210: General problem resolution.
823-211	925 823	Standard mouse adapter failed. Action: Use MAP 0210: General problem resolution.
824-220	B10 824	The tablet adapter fuse failed. Action: Use MAP 0210: General problem resolution.
824-331	824 227	An unexpected error occurred. Action: Use MAP 0210: General problem resolution.
824-332	824 227	The enable/disable device test failed. Note: Ensure that the wrap plug was not attached when the test was run. If the wrap plug was attached, remove it, and rerun the test. Action: Use MAP 0210: General problem resolution.
824-333	824	The internal wrap test failed. Action: Use MAP 0210: General problem resolution.
824-334	B10 824	The tablet adapter fuse failed. Action: Use MAP 0210: General problem resolution.
824-441	824	An unexpected error occurred. Action: Use MAP 0210: General problem resolution.
824-442	824	The wrap test failed. Action: Use MAP 0210: General problem resolution.
824-450	227	Software error caused by hardware failure. Action: Use MAP 0210: General problem resolution.
824-461	227	The error log analysis indicates a hardware failure. Action: Use MAP 0210: General problem resolution.
824-511	824	An unexpected error occurred. Action: Use MAP 0210: General problem resolution.
824-512	824	Tablet adapter reset test failed. Action: Use MAP 0210: General problem resolution.
824-522	B10 824	Adapter fuse failure. Action: Use MAP 0210: General problem resolution.
824-523	824	Device cannot be configured. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
824-524	824 software	Cannot open device. Action: Use MAP 0210: General problem resolution.
826-111	221	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
826-112	221	Unable to determine the type of adapter from the VPD. Action: Use MAP 0210: General problem resolution.
826-113	826	The VPD verification test failed. Action: Use MAP 0210: General problem resolution.
826-114	826	The register verification test failed. Action: Use MAP 0210: General problem resolution.
826-121	221	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
826-122	221	The data-wrap communications test failed. Action: Use MAP 0210: General problem resolution.
826-123	221	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
826-131	221	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
826-132	221	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
826-133	221	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
826-161	252	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
826-162	252	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
826-163	252	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
826-171	259	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
826-172	259	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
826-173	259	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
826-181	261	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
826-182	261	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
826-183	261	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
826-271	826 259	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
826-272	826 259	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
826-273	826 259	The modem control line test failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
826-281	826 259	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
826-282	826 259	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
826-283	826 259	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
826-321	826	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
826-322	826	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
826-323	826	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
826-331	826	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
826-332	826	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
826-333	826	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
826-371	826	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
826-372	826	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
826-373	826	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
826-381	826	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
826-382	826	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
826-383	826	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
826-481	D56	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
826-482	D56	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
826-483	D56	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
826-581	826 D56	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
826-582	826 D56	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
826-583	826 D56	The modem control line test failed. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
826-901 to 826-920	software 826	An unexpected error occurred that can be attributed to software or hardware. Action: Run diagnostics from a source other than from the disk or a network. If the same error occurs or if the original SRN was not obtained from disk or a network based diagnostics, use MAP 0210: General problem resolution. with a FFC of 826; otherwise, suspect a software problem.
826-921	826 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
826-922 to 826-924	software 826	An unexpected error occurred that can be attributed to software or hardware. Action: Run diagnostics from a source other than from the disk or a network. If the same error occurs or if the original SRN was not obtained from disk or a network based diagnostics, use MAP 0210: General problem resolution. with a FFC of 826; otherwise, suspect a software problem.
826-925	826 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
826-926 to 826-943	software 826	An unexpected error occurred that can be attributed to software or hardware. Action: Run diagnostics from a source other than from the disk or a network. If the same error occurs or if the original SRN was not obtained from disk or a network based diagnostics, use MAP 0210: General problem resolution. with a FFC of 826; otherwise, suspect a software problem.
827-112	221	The parallel port data register write/read test failed. Action: Use MAP 0210: General problem resolution.
827-121	827	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
827-122	827	The parallel port data register write/read test failed. Action: Use MAP 0210: General problem resolution.
827-123	827	The parallel port control register write/read test failed. Action: Use MAP 0210: General problem resolution.
827-124	827	The parallel port data register read test failed. Action: Use MAP 0210: General problem resolution.
827-125	827	The parallel port control register read test failed. Action: Use MAP 0210: General problem resolution.
827-126	827	The parallel port control register read test failed. Action: Use MAP 0210: General problem resolution.
827-131	827	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
827-132	827	The control port register direction bit (write) test with BIDI enabled failed. Action: Use MAP 0210: General problem resolution.
827-133	827	The control port register direction bit (read) test with BIDI enabled failed. Action: Use MAP 0210: General problem resolution.
827-141	827	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
827-142	827	The parallel port control register write/read test with BIDI enabled failed. Action: Use MAP 0210: General problem resolution.
827-151	221	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
827-152	827	The parallel port status register read test failed. Action: Use MAP 0210: General problem resolution.
827-161	827	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
827-162	221	The parallel port interrupt test failed. Action: Use MAP 0210: General problem resolution.
827-163	221	The parallel port interrupt test failed. Action: Use MAP 0210: General problem resolution.
827-201	827	The extend control register of the parallel port failed a read/write test. Action: Use MAP 0210: General problem resolution.
827-202	827	Input/output to the FIFO (without interrupts) failed. Action: Use MAP 0210: General problem resolution.
827-203	827	Input/output to the FIFO (with interrupts) failed. Action: Use MAP 0210: General problem resolution.
827-204	827	Direct memory access to the FIFO failed. Action: Use MAP 0210: General problem resolution.
828-501	828	The diskette adapter test failed. Action: Use MAP 0210: General problem resolution.
82C-102	82C	Adapter test failed. Action: Use MAP 0210: General problem resolution.
82C-104	82C 725	Display test failed. Action: Use MAP 0210: General problem resolution.
831-111	221	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-112	221	Unable to determine the type of adapter from the VPD. Action: Use MAP 0210: General problem resolution.
831-113	831	The VPD verification test failed. Action: Use MAP 0210: General problem resolution.
831-114	831	The register verification test failed. Action: Use MAP 0210: General problem resolution.
831-121	221	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-122	221	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
831-123	221	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-131	221	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-132	221	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
831-133	221	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-161	252	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-162	252	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
831-163	252	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-164	221 252	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-165	221 252	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
831-166	221 252	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-171	259	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-172	259	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
831-173	259	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-181	261	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-182	261	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
831-183	261	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-271	831 259	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-272	831 259	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
831-273	831 259	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-281	831 259	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-282	831 259	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
831-283	831 259	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-321	831	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-322	831	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
831-323	831	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-331	831	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-332	831	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
831-333	831	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-371	831	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
831-372	831	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
831-373	831	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-381	831	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-382	831	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
831-383	831	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-481	D56	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-482	D56	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
831-483	D56	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-581	831 D56	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-582	831 D56	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
831-583	831 D56	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-901 to 831-920	software 831	An unexpected error occurred that can be attributed to software or hardware. Action: Run diagnostics from a source other than from the disk or a network. If the same error occurs or if the original SRN was not obtained from disk or a network based diagnostics, use MAP 0210: General problem resolution. with a FFC of 831; otherwise, suspect a software problem.
831-921	831 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
831-922 to 831-924	software 831	An unexpected error occurred that can be attributed to software or hardware. Action: Run diagnostics from a source other than from the disk or a network. If the same error occurs or if the original SRN was not obtained from disk or a network based diagnostics, use MAP 0210: General problem resolution. with a FFC of 831; otherwise, suspect a software problem.
831-925	831 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
831-926 to 831-943	software 831	An unexpected error occurred that can be attributed to software or hardware. Action: Run diagnostics from a source other than from the disk or a network. If the same error occurs or if the original SRN was not obtained from disk or a network based diagnostics, use MAP 0210: General problem resolution. with a FFC of 831; otherwise, suspect a software problem.
832-xxxx	xxxx	I/O bridge/device internal error Note: xxxx represents the last 3 or 4 digits of the SRN after the dash (-). Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
833-xxxx	xxxx 296 2C9	PCI device address parity error, PCI device data parity error, or PCI device abort error. The diagnostics screen indicates the actual error. Note: xxxx represents the last 3 or 4 digits of the SRN after the dash (-). Action: Use MAP 0210: General problem resolution.
836-101	836	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
836-111	836 227	Cannot run test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
836-112	836 227	Unable to determine the type of adapter from the VPD. Action: Use MAP 0210: General problem resolution.
836-113	836	The VPD verification test failed. Action: Use MAP 0210: General problem resolution.
836-114	836	The register verification test failed. Action: Use MAP 0210: General problem resolution.
836-115	836	The VPD verification test failed. Action: Use MAP 0210: General problem resolution.
836-116	B54 836	The 128-port controller line test failed. Action: Use MAP 0210: General problem resolution.
836-117	684	Remote Async Node test failed. Action: Use MAP 0210: General problem resolution.
836-118	837	Remote async node test failed. Action: Use MAP 0210: General problem resolution.
836-119	836	Sync line termination test failed. Action: Use MAP 0210: General problem resolution.
836-151	837	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
836-152	837	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
836-153	837	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
836-154	684 836	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
836-155	684 836 152	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
836-161	C22	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
836-162	C22	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
836-163	C22	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
836-164	D06	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
836-171	259	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
836-172	259	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
836-173	259	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
836-174	263	Cannot run the test because the device driver detected a hardware error while running the Printer/Terminal cable wrap test. Action: Use MAP 0210: General problem resolution.
836-175	263	The data wrap communications test failed while running the Printer/Terminal cable wrap test. Action: Use MAP 0210: General problem resolution.
836-181	261	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
836-182	261	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
836-183	261	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
836-251	836 837	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
836-252	836 837	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
836-253	836 837	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
836-254	836 837	Cannot run the test because the device driver detected a hardware error while running the Remote Async Node wrap test. Action: Use MAP 0210: General problem resolution.
836-255	836 684	The data wrap communications test failed while running the Remote Async Node wrap test. Action: Use MAP 0210: General problem resolution.
836-271	836 837	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
836-272	836 837	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
836-273	836 837	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
836-274	836 684	Cannot run the test because the device driver detected a hardware error while running the Printer/Terminal cable wrap test. Action: Use MAP 0210: General problem resolution.
836-275	836 684	The data wrap communications test failed while running the Printer/Terminal cable wrap test. Action: Use MAP 0210: General problem resolution.
836-281	836 837	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
836-282	836 837	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
836-283	836 837	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
836-481	D56	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
836-482	D56	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
836-483	D56	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
836-901 to 836-920	software 836	An unexpected error occurred that can be attributed to software or hardware. Action: Run diagnostics from a source other than from the disk or a network. If the same error occurs or if the original SRN was not obtained from disk or a network based diagnostics, use MAP 0210: General problem resolution. with a FFC of 836; otherwise, suspect a software problem.
836-921	836 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
836-922 to 836-924	software 836	An unexpected error occurred that can be attributed to software or hardware. Action: Run diagnostics from a source other than from the disk or a network. If the same error occurs or if the original SRN was not obtained from disk or a network based diagnostics, use MAP 0210: General problem resolution. with a FFC of 836; otherwise, suspect a software problem.
836-925	836 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
836-926 to 836-943	software 836	An unexpected error occurred that can be attributed to software or hardware. Action: Run diagnostics from a source other than from the disk or a network. If the same error occurs or if the original SRN was not obtained from disk or a network based diagnostics, use MAP 0210: General problem resolution. with a FFC of 836; otherwise, suspect a software problem.
840-101	221	Enhanced error handling failure on the bus. Action: Use MAP 0210: General problem resolution.
840-102	293	Enhanced error handling failure on a PCI-PCI Bridge. Action: Use MAP 0210: General problem resolution.
840-103	840 221	Enhanced error handling failure on the adapter. Action: Use MAP 0210: General problem resolution.
840-212	840	FIFO empty bit set. Action: Use MAP 0210: General problem resolution.
840-213	840	FIFO empty bit clear. Action: Use MAP 0210: General problem resolution.
840-214	840	FIFO full bit set. Action: Use MAP 0210: General problem resolution.
840-215	840	FIFO full bit clear. Action: Use MAP 0210: General problem resolution.
840-216	840	FIFO data miscompare. Action: Use MAP 0210: General problem resolution.
840-217	840	SCSI FIFO data miscompare. Action: Use MAP 0210: General problem resolution.
840-218	840	SCSI FIFO underflow. Action: Use MAP 0210: General problem resolution.
840-219		SCSI parity error. Action: Use MAP 0050: SCSI Bus Problems
840-220	840	SCSI FIFO flags error. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
840-221	840 221	Miscompare during the write/read of the configuration register. Action: Use MAP 0210: General problem resolution.
840-222	840	Error during the write/read of the memory register. Action: Use MAP 0210: General problem resolution.
840-223	840	Miscompare during the write/read of the memory I/O register. Action: Use MAP 0050: SCSI Bus Problems.
840-224	840 221	SCSI configuration register read or write error. Action: Use MAP 0210: General problem resolution.
840-225	840	Adapter POST failed. Action: Use MAP 0210: General problem resolution.
840-226		SCSI wrap or PTC failure. Action: Go to SCSI Bus Problems.
840-227	840 221	SCSI adapter test failure. Action: Use MAP 0210: General problem resolution.
840-230		Arbitration test failed. Action: Go to SCSI Bus Problems.
840-231		Function could not complete. Action: Go to SCSI Bus Problems.
840-232		SCSI bus data miscompare. Action: Go to SCSI Bus Problems.
840-240		No terminal power. Action: Go to SCSI Bus Problems.
840-242		SCSI bus error. Action: Go to SCSI Bus Problems.
840-301	840 221	The parent device open failed. Action: Use MAP 0210: General problem resolution.
840-701	840	Error log analysis indicates a PCI SCSI adapter failure. Action: Use MAP 0210: General problem resolution.
840-801		Error log analysis indicates a terminator problem. Action: Run the diagnostics on the adapter in System Verification mode. If an SRN is reported, use the SRN to resolve the problem. If an SRN is not reported, use the SCSI service hints in General SCSI configuration checks to resolve the problem.
840-802		Error log analysis indicates that multiple attempts to reset the SCSI bus have timed out. Action: Run the diagnostics on the adapter in System Verification mode. If an SRN is reported, use the SRN to resolve the problem. If an SRN is not reported, use the SCSI service hints in General SCSI configuration checks to resolve the problem.
840-803		Error log analysis indicates that multiple SCSI bus errors have occurred. Action: Run the diagnostics on the adapter in System Verification mode. If an SRN is reported, use the SRN to resolve the problem. If an SRN is not reported, use the SCSI service hints in General SCSI configuration checks to resolve the problem.
844-xxx series	844	A 7135 controller problem is indicated. Action: Use 7135 documentation.
845-xxx series	845	A 7135 DASD drawer problem is indicated. Action: Use 7135 documentation.

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Service Request Number	Failing Function Codes	Description and Action
846-xxx series	846	A 7135 DASD drawer problem is indicated. Action: Use 7135 documentation.
868-101	221	Enhanced error handling failure on the bus. Action: Use MAP 0210: General problem resolution.
868-102	293	Enhanced error handling failure on a PCI-PCI Bridge. Action: Use MAP 0210: General problem resolution.
868-103	868 221	Enhanced error handling failure on the adapter. Action: Use MAP 0210: General problem resolution.
868-110	221	The adapter diagnostic subcommand test failed. Action: Use MAP 0210: General problem resolution
868-130	279	The adapter fuse test failed. Action: Use MAP 0210: General problem resolution.
868-140	868	The wrap test failed. Action: Use MAP 0210: General problem resolution.
868-150	868	The BCR registers write/read test failed. Action: Use MAP 0210: General problem resolution.
868-160	868	The POS registers write/read test failed. Action: Use MAP 0210: General problem resolution
868-170	868	The internal/external reset test failed. Action: Use MAP 0210: General problem resolution.
868-180	279 868	The adapter command timed out. Note: Check the fuse before replacing. Action: Use MAP 0210: General problem resolution.
868-190	221	A software error was caused by a hardware failure. Action: Use MAP 0210: General problem resolution.
868-191	868	Analysis of the error log indicates a problem with the hardware. Action: Use MAP 0210: General problem resolution.
868-192	221	Analysis of the error log indicates a problem with the hardware. Action: Use MAP 0210: General problem resolution.
868-193	279	Analysis of the error log indicates a problem with the hardware. Action: Use MAP 0210: General problem resolution.
868-194	868	Analysis of the error log indicates a problem with the hardware. Action: Use MAP 0210: General problem resolution.
868-200	868	ROM CRC error. Action: Use MAP 0210: General problem resolution.
868-201	868	Adapter RAM error. Action: Use MAP 0210: General problem resolution.
868-202	868	The control logic failed. Action: Use MAP 0210: General problem resolution.
868-203	868	The control logic failed. Action: Use MAP 0210: General problem resolution.
868-204	868	The control logic failed. Action: Use MAP 0210: General problem resolution.
868-205	868	The control logic failed. Action: Use MAP 0210: General problem resolution.
868-206	868	Diagnostics completed with a previous error. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
868-211	279 868 software	The device failed to configure. Action: Use MAP 0210: General problem resolution.
868-212	868	FIFO empty bit set. Action: Use MAP 0210: General problem resolution.
868-213	868	FIFO empty bit clear. Action: Use MAP 0210: General problem resolution.
868-214	868	FIFO full bit set. Action: Use MAP 0210: General problem resolution.
868-215	868	FIFO full bit clear. Action: Use MAP 0210: General problem resolution.
868-216	868	FIFO data miscompare. Action: Use MAP 0210: General problem resolution.
868-217	868	SCSI FIFO data miscompare. Action: Use MAP 0210: General problem resolution.
868-218	868	SCSI FIFO underflow. Action: Use MAP 0210: General problem resolution.
868-219		SCSI parity error. Action: Go to MAP 0050: SCSI Bus Problems. Action: Use MAP 0210: General problem resolution.
868-220	868	SCSI FIFO flags error. Action: Use MAP 0210: General problem resolution.
868-221	868 221	Miscompare during the write/read of the configuration register. Action: Use MAP 0210: General problem resolution.
868-222	868	Error during the write/read of the memory register. Action: Use MAP 0210: General problem resolution.
868-223	868	Miscompare during the write/read of the memory I/O register. Action: Go to MAP 0210: General problem resolution.
868-224	868 221	SCSI configuration register read or write error. Action: Use MAP 0210: General problem resolution.
868-225	868	Adapter POST failed. Action: Use MAP 0210: General problem resolution.
868-226		SCSI wrap or PTC failure. Action: Go to SCSI Bus Problems.
868-227	868 221	SCSI adapter test failure. Action: Use MAP 0210: General problem resolution.
868-230		Arbitration test failed. Action: Go to SCSI Bus Problems.
868-231		Function could not complete. Action: Go to SCSI Bus Problems.
868-232		SCSI bus data miscompare. Action: Go to SCSI Bus Problems.
868-240		No terminal power. Action: Go to SCSI Bus Problems.
868-242		SCSI bus error. Action: Go to SCSI Bus Problems.
868-301	868 221	Configuration open failed for parent bus. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
868-701	868	Error log analysis indicates a PCI SCSI adapter failure. Action: Use MAP 0210: General problem resolution.
868-801		Error log analysis indicates a terminator problem. Action: Run the diagnostics on the adapter in System Verification mode. If an SRN is reported, use the SRN to resolve the problem. If an SRN is not reported, use the SCSI service hints in General SCSI configuration checks to resolve the problem.
868-802		Error log analysis indicates that multiple attempts to reset the SCSI bus have timed out. Action: Run the diagnostics on the adapter in System Verification mode. If an SRN is reported, use the SRN to resolve the problem. If an SRN is not reported, use the SCSI service hints in General SCSI configuration checks to resolve the problem.
868-803		Error log analysis indicates that multiple SCSI bus errors have occurred. Action: Run the diagnostics on the adapter in System Verification mode. If an SRN is reported, use the SRN to resolve the problem. If an SRN is not reported, use the SCSI service hints in General SCSI configuration checks to resolve the problem.
887-101	887	POS register test failed. Action: Use MAP 0210: General problem resolution.
887-102	887	I/O register test failed. Action: Use MAP 0210: General problem resolution.
887-103	887	Local RAM test failed. Action: Use MAP 0210: General problem resolution.
887-104	887	Vital Product Data (VPD) test failed. Action: Use MAP 0210: General problem resolution.
887-105	887	LAN coprocessor internal tests failed. Action: Use MAP 0210: General problem resolution.
887-106	887	Internal loopback test failed. Action: Use MAP 0210: General problem resolution.
887-107	887	External loopback test failed. Action: Use MAP 0210: General problem resolution.
887-108	887	External loopback test failed. Action: Use MAP 0210: General problem resolution.
887-109	887	External loopback parity tests failed. Action: Use MAP 0210: General problem resolution.
887-110	887	External loopback fairness test failed. Action: Use MAP 0210: General problem resolution.
887-111	887	External loopback fairness and parity tests failed. Action: Use MAP 0210: General problem resolution.
887-112	887	External loopback (twisted pair) test failed. Action: Use MAP 0210: General problem resolution.
887-113	887	External loopback (twisted pair) parity test failed. Action: Use MAP 0210: General problem resolution.
887-114	887	Ethernet loopback (twisted pair) fairness test failed. Action: Use MAP 0210: General problem resolution.
887-115	887	External loopback (twisted pair) fairness and parity tests failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
887-116	887	Twisted pair wrap data failed. Action: Use MAP 0210: General problem resolution.
887-117	887 software	Device configuration fails. Action: Use MAP 0210: General problem resolution.
887-118	887	Device driver indicates a hardware problem. Action: Use MAP 0210: General problem resolution.
887-120	887	Device driver indicates a hardware problem. Action: Use MAP 0210: General problem resolution.
887-121	B08	Ethernet transceiver test failed. Action: Use MAP 0210: General problem resolution.
887-122	B09	Ethernet 10 Base-2 transceiver test failed. Action: Use MAP 0210: General problem resolution.
887-123	887	Internal loopback test failed. Action: Use MAP 0210: General problem resolution.
887-124	887 software	Error log indicates a hardware problem. Action: Use MAP 0210: General problem resolution.
887-125	887	Fuse test failed. Action: Use MAP 0210: General problem resolution.
887-202	887	Vital product data test failed. Action: Use MAP 0210: General problem resolution.
887-203	887	Vital product data test failed. Action: Use MAP 0210: General problem resolution.
887-209	887	RJ-45 converter test failed. Action: Use MAP 0210: General problem resolution.
887-304	887	Coprocessor internal test failed. Action: Use MAP 0210: General problem resolution.
887-305	887	Internal loopback test failed. Action: Use MAP 0210: General problem resolution.
887-306	887	Internal loopback test failed. Action: Use MAP 0210: General problem resolution.
887-307	887	External loopback test failed. Action: Use MAP 0210: General problem resolution.
887-319	887 software	Device driver indicates a hardware failure. Action: Use MAP 0210: General problem resolution.
887-400	887	Fuse test failed. Action: Use MAP 0210: General problem resolution.
887-401	887	Circuit breaker for Ethernet test failed. Action: Use MAP 0210: General problem resolution.
887-402	B09 887	Ethernet 10 Base-2 transceiver test failed. Action: Use MAP 0210: General problem resolution.
887-403	B08 887	Ethernet 10 Base-T transceiver test failed. Action: Use MAP 0210: General problem resolution.
887-405	Ethernet- network 887	Rerun diagnostics in advanced mode for accurate problem determination. Action: Use MAP 0210: General problem resolution.
891-102	891	A critical failure has occurred on an undefined element. Action: Go to General problem resolution

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Service Request Number	Failing Function Codes	Description and Action
891-103	891	Non-critical failure has occurred on an undefined element. Action: Go to General problem resolution
891-104	891	An unrecoverable failure has occurred on an undefined element. Action: Go to General problem resolution
891-122	152	A critical power supply failure has occurred. Action: Go to General problem resolution
891-123	152	A non-critical power supply failure has occurred. Action: Go to General problem resolution
891-124	152	An unrecoverable power supply failure has occurred. Action: Go to General problem resolution
891-132	166	A critical fan failure has occurred. Action: Go to General problem resolution
891-133	166	A non-critical fan failure has occurred. Action: Go to General problem resolution
891-134	166 891	An unrecoverable fan failure has occurred. Action: Go to General problem resolution
891-148	166 891	The enclosure indicates a temperature threshold warning. Action: Go to General problem resolution
891-149	166 891	The enclosure indicates a temperature threshold failure. Action: Go to General problem resolution
891-152	891	A critical repeater card failure has occurred. Action: Go to General problem resolution
891-153	891	A non-critical repeater card failure has occurred. Action: Go to General problem resolution
891-154	891	An unrecoverable repeater card failure has occurred. Action: Go to General problem resolution
891-162	891	A critical VPD module failure has occurred. Action: Go to General problem resolution
891-163	891	A non-critical VPD module failure has occurred. Action: Go to General problem resolution
891-164	891	An unrecoverable VPD module failure has occurred. Action: Go to General problem resolution
891-172	891	A critical enclosure services failure has occurred. Action: Go to General problem resolution
891-173	891	A non-critical enclosure services failure has occurred. Action: Go to General problem resolution
891-174	891	An unrecoverable enclosure services failure has occurred. Action: Go to General problem resolution
891-182	891	A critical failure has occurred on a user defined element. Action: Go to General problem resolution
891-183	891	A non-critical failure has occurred on a user defined element. Action: Go to General problem resolution
891-184	891	An unrecoverable failure has occurred on a user defined element. Action: Go to General problem resolution
891-192	891	A critical failure has occurred on a user defined element. Action: Go to General problem resolution

Service Request Number	Failing Function Codes	Description and Action
891-193	891	A non-critical failure has occurred on a user defined element. Action: Go to General problem resolution
891-194	891	An unrecoverable failure has occurred on a user defined element. Action: Go to General problem resolution
891-201	891	Device configuration error. Action: Go to General problem resolution
891-202	891	The enclosure failed to open. Action: Go to General problem resolution
891-203	891	The enclosure failed to return inquiry data. Action: Go to General problem resolution
891-204	152 166	There is a critical power supply or fan failure. Action: Go to General problem resolution
891-205	152 166	There is a redundant power supply or fan failure. Action: Go to General problem resolution
899-xxx	899	3490 or 3590 attached tape drive being identified or configured. Action: Go to the service documentation for the tape drive attached to your system.

SRNs 900-001 through xxxxxxxx

Note: Some SRNs in this chapter may have 4 rather than 3 digits after the dash (-).

Service Request Number	Failing Function Codes	Description and Action
901-xxx		Vendor SCSI device problem. Refer to the service documentation for this device. Action: Use MAP 0210: General problem resolution.
902-xxx		Vendor display problem. Refer to the service documentation for this display. Action: Use MAP 0210: General problem resolution.
903-xxx		Vendor Async device problem. Refer to the service documentation for this device. Action: Use MAP 0210: General problem resolution.
904-xxx		Vendor Parallel device problem. Refer to the service documentation for this device. Action: Use MAP 0210: General problem resolution.
905-xxx		Vendor device problem. Refer to the service documentation for this device. Action: Use MAP 0210: General problem resolution.
912-XXX to 913-XXX		See SCSI devices SRNs ssss-102 through ssss-640.
914-110	914	The Reserve command failed. Action: Use MAP 0210: General problem resolution.
914-120	914	The Inquiry command failed. Action: Use MAP 0210: General problem resolution.

900-001 through xxxxxxxx

Service Request Number	Failing Function Codes	Description and Action
914-130	914 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
914-135	914 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
914-140	914	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
914-150	914 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
914-160	914 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
914-170	914 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
914-180	914 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
914-185	914 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
914-190	914	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
914-200	914 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
914-210	914 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
914-220	914	The Release command failed. Action: Use MAP 0210: General problem resolution.
914-230	914	The Request Sense command failed. Action: Use MAP 0210: General problem resolution.
914-240	914	The Openx command failed. Action: Use MAP 0210: General problem resolution.
914-300	914 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
914-310	B88 914 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
914-320	914 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
914-411 to 914-423	914 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.
914-511 to 914-523	914 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
914-611 to 914-623	914 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
914-711 to 914-723	914 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
915-110	915	The Reserve command is corrupted. Action: Use MAP 0210: General problem resolution.
915-120	915	The Inquiry command failed. Action: Use MAP 0210: General problem resolution.
915-130	915 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
915-135	915 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
915-140	915	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
915-150	915 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
915-160	915 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
915-169	915 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
915-170	915 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
915-180	915 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
915-185	915 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
915-190	915	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
915-200	915 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
915-210	915 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
915-220	915	The Replace command failed. Action: Use MAP 0210: General problem resolution.
915-230	915	The Request Sense command failed. Action: Use MAP 0210: General problem resolution.
915-240	915	The Openx command failed. Action: Use MAP 0210: General problem resolution.
915-300	915 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
915-310	B88 915 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
915-320	915 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
915-411 to 915-423	915 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.

900-001 through xxxxxxxx

Service Request Number	Failing Function Codes	Description and Action
915-511 to 915-523	915 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
915-611 to 915-623	915 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
915-711 to 915-723	915 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.
917-102	917 B88	An unrecoverable media error. Action: Use MAP 0210: General problem resolution.
917-104	917	The motor failed to restart. Action: Use MAP 0210: General problem resolution.
917-105	917	The drive did not become ready. Action: Use MAP 0210: General problem resolution.
917-106	917	The electronics card test failed. Action: Use MAP 0210: General problem resolution.
917-108	917	The bus test failed. Action: Use MAP 0210: General problem resolution.
917-110	917	The media format is corrupted. Action: Use MAP 0210: General problem resolution.
917-112	917	The diagnostic test failed. Action: Use MAP 0210: General problem resolution.
917-114	917	An unrecoverable hardware error. Action: Use MAP 0210: General problem resolution.
917-116		A protocol error. Action: Check the levels of the device, adapter, diagnostic software, and application software to ensure they are all compatible. If you do not find a problem, call your support person. Use MAP 0210: General problem resolution.
917-117	917	A write-protect error occurred. Action: Use MAP 0210: General problem resolution.
917-118	917 B88	A SCSI command timeout. Action: Use MAP 0210: General problem resolution.
917-120	917	A SCSI busy or command error. Action: Use MAP 0210: General problem resolution.
917-122	917	A SCSI reservation conflict error. Action: Use MAP 0210: General problem resolution.
917-124	917	A SCSI check condition error. Action: Use MAP 0210: General problem resolution.
917-126	917 B88	A software error was caused by a hardware failure. Action: Use MAP 0210: General problem resolution.
917-128	917	The error log analysis indicates a hardware failure. Action: Use MAP 0210: General problem resolution.
917-129	917	Error log analysis indicates a SCSI bus problem. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
917-130	917 B88	Error log analysis indicates a problem reported by the disk drive's self-monitoring function. Action: Use MAP 0210: General problem resolution.
917-132	917	A disk drive hardware error occurred. Action: Use MAP 0210: General problem resolution.
917-133	917	Use the subsystem guide to complete diagnostics. Action: Use MAP 0210: General problem resolution.
917-134	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
917-135	917 B88 software	The device failed to configure. Action: Use MAP 0210: General problem resolution.
917-136	917	The certify operation failed. Action: Use MAP 0210: General problem resolution.
917-137	917 B88 190	Unit attention condition has occurred on the Send Diagnostic command. Action: Use MAP 0210: General problem resolution.
917-138	190	Error log indicates that the disk is operating at higher than recommended temperatures. Action: Use MAP 0210: General problem resolution.
917-139	917	Error configuring or opening device. Action: Use MAP 0210: General problem resolution.
917-640	640	Error Log Analysis indicates a path error. Action: Use MAP 0210: General problem resolution.
918-xxx		See SCSI devices SRNs ssss-102 through ssss-640.
921-101	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
921-102	921 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
921-103	921 821	The keyboard reset failed. Action: Use MAP 0210: General problem resolution.
921-104	921	Unknown keyboard. Action: Use MAP 0210: General problem resolution.
921-105	921 821	The keyboard light-on test failed. Action: Use MAP 0210: General problem resolution.
921-106	921 821	The keyboard light-off test failed. Action: Use MAP 0210: General problem resolution.
921-201	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
921-202	921 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
921-203	921 821	The read keyboard ID test failed. Action: Use MAP 0210: General problem resolution.
921-204	921	The keyboard layout ID test failed. Action: Use MAP 0210: General problem resolution.
921-205	921 821	The keyboard echo test failed. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
921-206	921 821	The select scan code set test failed. Action: Use MAP 0210: General problem resolution.
921-301	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
921-302	921 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
921-303	921	An error occurred in turning on the lamps. Action: Use MAP 0210: General problem resolution.
921-304	921	An error occurred in turning off the lamps. Action: Use MAP 0210: General problem resolution.
921-401	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
921-402	921 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
921-403	921	Unable to recognize the keyboard. Action: Use MAP 0210: General problem resolution.
921-404	921 821	The keyboard is failing. Action: Use MAP 0210: General problem resolution.
921-501	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
921-502	921 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
921-503	921	The auto-click cannot be disabled. Action: Use MAP 0210: General problem resolution.
921-504	921	The auto-click cannot be enabled. Action: Use MAP 0210: General problem resolution.
921-505	921	Unable to recognize the keyboard. Action: Use MAP 0210: General problem resolution.
921-601	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
921-602	921 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
921-603	921	The speaker test failed. Action: Use MAP 0210: General problem resolution.
921-701	921 821	Error configuring the device. Action: Use MAP 0210: General problem resolution.
921-901	821	The error log analysis indicates an adapter failure. Action: Use MAP 0210: General problem resolution.
921-902	921 821	The error log analysis indicates a device failure. Action: Use MAP 0210: General problem resolution.
921-903	921 821	The error log analysis indicates an unknown failure. Action: Use MAP 0210: General problem resolution.
922-101	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
922-102	922 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
922-103	922 821	The keyboard reset failed. Action: Use MAP 0210: General problem resolution.
922-104	922	Unknown keyboard. Action: Use MAP 0210: General problem resolution. Action: Use MAP 0210: General problem resolution.
922-105	922 821	The keyboard light-on test failed. Action: Use MAP 0210: General problem resolution.
922-106	922 821	The keyboard light-off test failed. Action: Use MAP 0210: General problem resolution.
922-201	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
922-202	922 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
922-203	922 821	The read keyboard id test failed. Action: Use MAP 0210: General problem resolution.
922-204	922	The keyboard layout id test failed. Action: Use MAP 0210: General problem resolution.
922-205	922 821	The keyboard echo test failed. Action: Use MAP 0210: General problem resolution.
922-206	922 821	The select scan code set test failed. Action: Use MAP 0210: General problem resolution.
922-301	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
922-302	922 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
922-303	922	An error occurred in turning on the lamps. Action: Use MAP 0210: General problem resolution.
922-304	922	An error occurred in turning off the lamps. Action: Use MAP 0210: General problem resolution.
922-401	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
922-402	922 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
922-403	922	The keyboard is failing. Action: Use MAP 0210: General problem resolution.
922-404	922 821	Unable to recognize the keyboard. Action: Use MAP 0210: General problem resolution.
922-501	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
922-502	922 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
922-503	921	The auto-click cannot be disabled. Action: Use MAP 0210: General problem resolution.
922-504	922	The auto-click cannot be enabled. Action: Use MAP 0210: General problem resolution.
922-505	922	Unable to recognize the keyboard. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
922-601	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
922-602	922 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
922-603	922	The speaker test failed. Action: Use MAP 0210: General problem resolution.
922-701	922 821	Error configuring the device. Action: Use MAP 0210: General problem resolution.
922-901	821	The error log indicates an adapter failed. Action: Use MAP 0210: General problem resolution.
922-902	922 821	The error log indicates a device failed. Action: Use MAP 0210: General problem resolution.
922-903	922 821	The error log analysis indicates an unknown failure. Action: Use MAP 0210: General problem resolution.
923-101	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
923-102	923 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
923-103	923 821	The keyboard reset failed. Action: Use MAP 0210: General problem resolution.
923-104	923	Unknown keyboard. Action: Use MAP 0210: General problem resolution.
923-105	923 821	The keyboard light-on test failed. Action: Use MAP 0210: General problem resolution.
923-106	923 821	The keyboard light-off test failed. Action: Use MAP 0210: General problem resolution.
923-201	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
923-202	923 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
923-203	923 821	The read keyboard id test failed. Action: Use MAP 0210: General problem resolution.
923-204	923	The keyboard layout id test failed. Action: Use MAP 0210: General problem resolution.
923-205	923 821	The keyboard echo test failed. Action: Use MAP 0210: General problem resolution.
923-206	923 821	The select scan code set test failed. Action: Use MAP 0210: General problem resolution.
923-301	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
923-302	923 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
923-303	923	An error occurred in turning on the lamps. Action: Use MAP 0210: General problem resolution.
923-304	923	An error occurred in turning off the lamps. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
923-401	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
923-402	923 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
923-403	923	The keyboard is failing. Action: Use MAP 0210: General problem resolution.
923-404	923 821	Unable to recognize the keyboard. Action: Use MAP 0210: General problem resolution.
923-501	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
923-502	923 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
923-503	923	The auto-click cannot be disabled. Action: Use MAP 0210: General problem resolution.
923-504	923	The auto-click cannot be enabled. Action: Use MAP 0210: General problem resolution.
923-505	923	Unable to recognize the keyboard. Action: Use MAP 0210: General problem resolution.
923-601	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
923-602	923 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
923-603	923	The speaker test failed. Action: Use MAP 0210: General problem resolution.
922-701	923 821	Error configuring the device. Action: Use MAP 0210: General problem resolution.
923-901	821	The error log indicates an adapter failed. Action: Use MAP 0210: General problem resolution.
923-902	923 821	The error log analysis indicates a device failure. Action: Use MAP 0210: General problem resolution.
923-903	923 821	The error log analysis indicates an unknown failure. Action: Use MAP 0210: General problem resolution.
925-111	925 823	An unexpected device error occurred. Action: Use MAP 0210: General problem resolution.
925-112	925 823	The device disable test failed. Action: Use MAP 0210: General problem resolution.
925-113	925	Could not reset the device. Action: Use MAP 0210: General problem resolution.
925-114	925 823	The Read Status command failed. Action: Use MAP 0210: General problem resolution.
925-115	925	The device test failed. Action: Use MAP 0210: General problem resolution.
925-116	925	Unknown Mouse type. Action: Use MAP 0210: General problem resolution.
925-117	925 823	Mouse wrap mode failed. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
925-118	925 823	Error setting mouse parameters. Action: Use MAP 0210: General problem resolution.
925-121 to 925-171	925	The device test failed. Action: Use MAP 0210: General problem resolution.
925-200	925 823	A software error was caused by a hardware failure. Action: Use MAP 0210: General problem resolution.
925-300	925	The error log analysis indicates a hardware failure. Action: Use MAP 0210: General problem resolution.
925-301	925 823	The error log analysis indicates a hardware failure. Action: Use MAP 0210: General problem resolution.
926-104	926 159	Input device cable is not attached. Action: Use MAP 0210: General problem resolution.
926-111	824	Adapter error. Action: Use MAP 0210: General problem resolution.
926-112 to 926-115	926 824	Device, adapter or tablet reset failed. Action: Use MAP 0210: General problem resolution.
926-116	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
926-119	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
926-121	824	Adapter error. Action: Use MAP 0210: General problem resolution.
926-131	824 926	Adapter error. Action: Use MAP 0210: General problem resolution.
926-132 to 926-135	926	Device or adapter error. Action: Use MAP 0210: General problem resolution.
926-141	824 926	Adapter error. Action: Use MAP 0210: General problem resolution.
926-142 to 926-161	926	Device or adapter error. Action: Use MAP 0210: General problem resolution.
926-162	159 926	Device or adapter error. Action: Use MAP 0210: General problem resolution.
926-163	159 926	Error in turning off input device LED. Action: Use MAP 0210: General problem resolution.
926-164	159 926	Error in turning off input device LED. Action: Use MAP 0210: General problem resolution.
926-165	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
926-166	188 926	Device or adapter error. Action: Use MAP 0210: General problem resolution.
926-167	188 926	Error in turning off input device LED. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
926-168	188 926	Error in turning on input device LED. Action: Use MAP 0210: General problem resolution.
926-169	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
926-172	159 926	Device or adapter error. Action: Use MAP 0210: General problem resolution.
926-173	159 926	Error in turning off input device switch. Action: Use MAP 0210: General problem resolution.
926-174	159 926	Error in turning on input device switch. Action: Use MAP 0210: General problem resolution.
926-175	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
926-176	188 926	Device or adapter error. Action: Use MAP 0210: General problem resolution.
926-177	188 926	Error in turning off input device switch. Action: Use MAP 0210: General problem resolution.
926-178	188 926	Error in turning on input device switch. Action: Use MAP 0210: General problem resolution.
926-179	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
926-181	824 926	Adapter error. Action: Use MAP 0210: General problem resolution.
926-182	159 926	Device or adapter error. Action: Use MAP 0210: General problem resolution.
926-183	159 926	Error in incremental data mode test. Action: Use MAP 0210: General problem resolution.
926-184	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
926-186	188 926	Device or adapter error. Action: Use MAP 0210: General problem resolution.
926-187	188 926	The incremental data mode test failed. Action: Use MAP 0210: General problem resolution.
926-188	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
926-203	926 824	Error in disabling tablet. Action: Use MAP 0210: General problem resolution.
926-204	926 824	Error in enabling tablet. Action: Use MAP 0210: General problem resolution.
926-207	926 824	Enabled/disabled test failed. Action: Use MAP 0210: General problem resolution.
926-208	926 824	Enabled/disabled test failed. Action: Use MAP 0210: General problem resolution.
926-221	824	Adapter error. Action: Use MAP 0210: General problem resolution.
926-222	926 824	Device or adapter error. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
926-225	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
926-229	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
926-271	926	Adapter error. Action: Use MAP 0210: General problem resolution.
926-272	159 926	Device or adapter error. Action: Use MAP 0210: General problem resolution.
926-273	159	Error in input device switch test. Action: Use MAP 0210: General problem resolution.
926-274	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
926-276	188 926	Device or adapter error. Action: Use MAP 0210: General problem resolution.
926-277	188 926	Error in input device switch test. Action: Use MAP 0210: General problem resolution.
926-278	188	Input device cable is not attached. Action: Use MAP 0210: General problem resolution.
926-281	824 926	Adapter error. Action: Use MAP 0210: General problem resolution.
926-282	159 926	Device or adapter error. Action: Use MAP 0210: General problem resolution.
926-283	159 926	Error in incremental data mode test. Action: Use MAP 0210: General problem resolution.
926-284	159	The input device cable is not attached.
926-286	188 926	Device or adapter error. Action: Use MAP 0210: General problem resolution.
926-287	188 926	Error in incremental data mode test. Action: Use MAP 0210: General problem resolution.
926-288	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-104	927 159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-111	824	Adapter error. Action: Use MAP 0210: General problem resolution.
927-112	927 824	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-113	927 824	Tablet reset failed. Action: Use MAP 0210: General problem resolution.
927-114	927 824	The read configuration test failed. Action: Use MAP 0210: General problem resolution.
927-115	927 824	The read status test failed. Action: Use MAP 0210: General problem resolution.
927-116	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
927-119	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-121	824	Adapter error. Action: Use MAP 0210: General problem resolution.
927-122	927 824	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-125	927 824	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-131	824 927	Adapter error. Action: Use MAP 0210: General problem resolution.
927-132	927	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-133	927	The set conversion mode test failed. Action: Use MAP 0210: General problem resolution.
927-134	927	The set resolution test failed. Action: Use MAP 0210: General problem resolution.
927-135	927	The read status test failed. Action: Use MAP 0210: General problem resolution.
927-141	824 927	Adapter error. Action: Use MAP 0210: General problem resolution.
927-142	927	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-143	927	Error in tablet indicator. Action: Use MAP 0210: General problem resolution.
927-161	927	Adapter error. Action: Use MAP 0210: General problem resolution.
927-162	159 927	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-163	159 927	Error in turning off input device LED. Action: Use MAP 0210: General problem resolution.
927-164	159 927	Error in turning on input device LED. Action: Use MAP 0210: General problem resolution.
927-165	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-166	188 927	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-167	188 927	Error in turning off input device LED. Action: Use MAP 0210: General problem resolution.
927-168	188 927	Error in turning on input device LED. Action: Use MAP 0210: General problem resolution.
927-169	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-171	927	Adapter error. Action: Use MAP 0210: General problem resolution.
927-172	159 927	Device or adapter error. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
927-173	159 927	Error in turning off input device switch. Action: Use MAP 0210: General problem resolution.
927-174	159 927	Error in turning on input device switch. Action: Use MAP 0210: General problem resolution.
927-175	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-176	188 927	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-177	188 927	Error in turning off input device switch. Action: Use MAP 0210: General problem resolution.
927-178	188 927	Error in turning on input device switch. Action: Use MAP 0210: General problem resolution.
927-179	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-181	824 927	Adapter error. Action: Use MAP 0210: General problem resolution.
927-182	159 927	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-183	159 927	Error in incremental data mode test. Action: Use MAP 0210: General problem resolution.
927-184	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-186	188 927	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-187	188 927	Error in incremental data mode test. Action: Use MAP 0210: General problem resolution.
927-188	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-203	927 824	Error in disabling tablet. Action: Use MAP 0210: General problem resolution.
927-204	927 824	Error in enabling tablet. Action: Use MAP 0210: General problem resolution.
927-221	824	Adapter error. Action: Use MAP 0210: General problem resolution.
927-222	927 824	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-225	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-229	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-271	927	Adapter error. Action: Use MAP 0210: General problem resolution.
927-272	159 927	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-273	159 927	Error in input device switch test. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
927-274	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-276	188 927	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-277	188 927	Error in input device switch test. Action: Use MAP 0210: General problem resolution.
927-278	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-281	824 927	Adapter error. Action: Use MAP 0210: General problem resolution.
927-282	159 927	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-283	159 927	Error in incremental data mode test. Action: Use MAP 0210: General problem resolution.
927-284	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-286	188 927	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-287	188 927	Error in incremental data mode test. Action: Use MAP 0210: General problem resolution.
927-288	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
929-201	929	Failed to register input ring. Action: Use MAP 0210: General problem resolution.
929-202	929	Unable to read event from the device. Action: Use MAP 0210: General problem resolution.
929-203	929	Unable to communicate with the device. Action: Use MAP 0210: General problem resolution.
929-204	929	Cannot set the device granularity. Action: Use MAP 0210: General problem resolution.
929-210	929	Device or adapter failure. Action: Use MAP 0210: General problem resolution.
929-212	929	Cannot set the device to HIGH granularity. Action: Use MAP 0210: General problem resolution.
929-213	929	Cannot set the device to LOW granularity. Action: Use MAP 0210: General problem resolution.
929-299	software 929	Error unconfiguring the device. Action: Use MAP 0210: General problem resolution.
929-301	software 929	Error configuring the device. Action: Use MAP 0210: General problem resolution.
930-201	930	Device or adapter failure. Action: Use MAP 0210: General problem resolution.
930-210	930	Unable to turn the lights on. Action: Use MAP 0210: General problem resolution.
930-220	930	Unable to turn the lights off hardware failure. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
930-230	930	Unable to turn the lights off. Action: Use MAP 0210: General problem resolution.
930-241	930	Unable to turn a single light-on. Action: Use MAP 0210: General problem resolution.
930-242	930	Device or adapter failure. Action: Use MAP 0210: General problem resolution.
930-243	930	Device or adapter failure. Action: Use MAP 0210: General problem resolution.
930-261	930	Cable test failed. Action: Use MAP 0210: General problem resolution.
930-262	930	Cable test failed. Action: Use MAP 0210: General problem resolution.
930-299	software 930	Error unconfiguring the device. Action: Use MAP 0210: General problem resolution.
930-301	software 930	Error configuring the device. Action: Use MAP 0210: General problem resolution.
935-101 to 935-102	935 828	The diskette-drive select or deselect test failed. Action: Use MAP 0210: General problem resolution.
935-103 to 935-107	935 828	The diskette failed. Action: Use MAP 0210: General problem resolution.
935-108	935	The diskette read test failed. Action: Use MAP 0210: General problem resolution.
935-109 to 935-110	935 828	The read/write on the diskette drive failed. Action: Use MAP 0210: General problem resolution.
935-111 to 935-114	935	A diskette drive test failed. Action: Use MAP 0210: General problem resolution.
935-115 to 935-121	935 828	The diskette drive test failed. Action: Use MAP 0210: General problem resolution.
935-122	935 828	The error log analysis indicates a hardware failure. Action: Use MAP 0210: General problem resolution.
935-123	935	The error log analysis indicates a hardware failure. Action: Use MAP 0210: General problem resolution.
935-124	935 software	Unable to configure the device. Action: Use MAP 0210: General problem resolution.
938-101	938 227	HIPPI Adapter test failed. Action: Use MAP 0210: General problem resolution.
938-104	938 227	HIPPI Adapter test failed. Action: Use MAP 0210: General problem resolution.
938-105	938 227	HIPPI Adapter test failed. Action: Use MAP 0210: General problem resolution.
938-108	938 227	HIPPI Adapter test failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
938-109	938 227	HIPPI Adapter test failed. Action: Use MAP 0210: General problem resolution.
938-10A	938 227	HIPPI Adapter test failed. Action: Use MAP 0210: General problem resolution.
938-10B	938 227	HIPPI Adapter test failed. Action: Use MAP 0210: General problem resolution.
938-10C	Wrap-Plug 938	HIPPI Adapter test failed. Action: Use MAP 0210: General problem resolution.
938-124	938 227	HIPPI Adapter test failed. Action: Use MAP 0210: General problem resolution.
938-600	938 227 software	HIPPI Adapter test failed. Action: Use MAP 0210: General problem resolution.
938-800	938 227	HIPPI Adapter test failed. Action: Use MAP 0210: General problem resolution.
945-xxx		See SCSI devices SRNs ssss-102 through ssss-640.
946-111	946 227	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-114	946	The register verification test failed. Action: Use MAP 0210: General problem resolution.
946-121	946 227	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-122	946 227	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
946-123	946 227	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-131	946	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-132	946 227	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
946-133	946	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-161	252	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-162	252	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
946-163	252	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-171	259	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-172	259	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
946-173	259	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-181	261	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-182	261	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
946-183	261	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-271	946 259	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-272	946 259	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
946-273	946 259	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-281	946 261	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-282	946 261	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
946-283	946 261	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-321	946	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-322	946	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
946-323	946	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-331	946	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-332	946	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
946-333	946	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-371	946	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-372	946	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
946-373	946	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-381	946	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
946-382	946	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
946-383	946	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-481	D56	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-482	D56	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
946-483	D56	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-581	946 D56	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-582	946 D56	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
946-583	946 D56	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-901 to 946-920	software 946	An unexpected error occurred that can be attributed to software or hardware. Action: Run diagnostics from a source other than from the disk or a network. If the same error occurs or if the original SRN was not obtained from disk or a network based diagnostics, use MAP 0210: General problem resolution with a FFC of 946; otherwise, suspect a software problem.
946-921	946 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
946-922 to 946-924	software 946	An unexpected error occurred that can be attributed to software or hardware. Action: Run diagnostics from a source other than from the disk or a network. If the same error occurs or if the original SRN was not obtained from disk or a network based diagnostics, use MAP 0210: General problem resolution with a FFC of 946; otherwise, suspect a software problem.
946-925	946 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
946-926 to 946-943	software 946	An unexpected error occurred that can be attributed to software or hardware. Action: Run diagnostics from a source other than from the disk or a network. If the same error occurs or if the original SRN was not obtained from disk or a network based diagnostics, use MAP 0210: General problem resolution with a FFC of 946; otherwise, suspect a software problem.
747-xxx		See SCSI devices SRNs ssss-102 through ssss-640.
950-100	192	Power supply problem. Action: Use the service documentation for the portable disk.
950-101	2C9 153	PCI bus was not found. Action: Rerun diagnostics in Advanced Mode for additional problem isolation.

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Service Request Number	Failing Function Codes	Description and Action
950-102	2C9	PCI bus was not found. Action: Use MAP 0291: Missing device or bus problem resolution.
950-103	2C9	Multiple adapters on bus were not found. Action: Use MAP 0210: General problem resolution.
950-105	2C9 221	PCI bus was not found. Action: Use MAP 0291: Missing device or bus problem resolution.
950-106	2C9	PCI bus was not found. Action: Use MAP 0291: Missing device or bus problem resolution.
950-107	153 165	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-108	190 199 153 165	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-200	152	Power supply problem. Action: Use the service documentation for the external device.
950-201	SCSI Bus	SCSI bus problem. Action: Refer to MAP 2010 in the <i>7134 High Density SCSI Disk Subsystem Installation and Service Guide</i>
950-400	153	Power supply problem. Action: Use the service documentation for the drawer/tower containing the failing power supply. If the drawer/deskside unit service documentation does not isolate the problem, go to Power problem isolation for your system.
950-440	440 B88 190 199 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-441	441 B88 190 199 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-442	442 B88 190 199 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-443	443 B88 190 199 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.

Service Request Number	Failing Function Codes	Description and Action
950-451	451 B88 190 199 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-500	152	Power supply problem. Action: Use the service documentation for the system unit, rack, or drawer that contains the missing device.
950-56D	56D B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-58D	58D B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-61D	61D B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-638	638 B88 277 190 152	The SCSI device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-639	639 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-63A	63A B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-63B	63B B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-63C	63C B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-63D	63D B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-63E	63E B88 277 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
950-63F	63F B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-640	640 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-664	664 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-678	678 B88 190 152	The SCSI Tape Drive is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-679	679 B88 190 152	The SCSI Disk Drive is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-681	681 2E7 190 152	The SCSI Disk Drive is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-700	700 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-701	701 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-702	702 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-703	703 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-704	704 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-705	705 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.

Service Request Number	Failing Function Codes	Description and Action
950-706	706 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-707	707 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-721	721 B88 190 152	An unknown drive type is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-722	722 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-723	723 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-724	724 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-734	734 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-741	741 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-772	772 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-773	773 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-789	789 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-792	792 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
950-793	793 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-804	807 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-807	804 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-912	912 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-914	914 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-915	915 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-917	917 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-918	918 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-935	935 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-951	951 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-952	952 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-953	953 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.

Service Request Number	Failing Function Codes	Description and Action
950-954	954 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-955	955 B88 190 141 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-956	956 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-959	959 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-960	960 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-964	964 B88 190 152	The SCSI Tape Drive is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-968	968 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-970	970 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-971	971 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-972	972 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-974	974 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-981	981 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
950-984	984 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-986	986 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-987	987 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-989	989 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-990	990 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-991	991 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-994	994 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-995	995 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-998	998 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-2502	2502 221	Missing options resolution for PCI-X266 Planar 3 GB SAS adapter Action: Use MAP 0291: Missing device or bus problem resolution
950-2503 2502 2503		Missing options resolution for PCI-X266 Planar 3 GB SAS RAID adapter Action: Use MAP 0291: Missing device or bus problem resolution
950-2512	2512 221	Missing options resolution for PCI-X DDR Quad Channel U320 SCSI RAID Action: Use MAP 0291: Missing device or bus problem resolution

Service Request Number	Failing Function Codes	Description and Action
950-2513	2513 221	Missing options resolution for PCI-X DDR Quad Channel U320 SCSI RAID Adapter. Action: Use MAP 0291: Missing device or bus problem resolution
950-2514	2514 221	Missing options resolution for PCI-X DDR Dual Channel U320 SCSI Action: Use MAP 0291: Missing device or bus problem resolution
950-2522	2522 221	Missing options resolution for PCI-x Dual Channel Ultra320 SCSI Adapter. Action: Use MAP 0291: Missing device or bus problem resolution..
950-2523	2523 221	Missing options resolution for PCI-X Dual Channel Ultra320 SCSI Adapter. Action: Use MAP 0291: Missing device or bus problem resolution.
950-2524	2524	Missing options resolution for PCI-X Dual Channel Ultra320 SCSI Adapter. Action: Use MAP 0291: Missing device or bus problem resolution.
950-2525	2525 2524	Missing options resolution for PCI-X Dual Channel Ultra320 SCSI Adapter. Action: Use MAP 0291: Missing device or bus problem resolution.
950-2527	2527 221	Missing options resolution for PCI-X Dual Channel Ultra320 SCSI Adapter. Action: Use MAP 0291: Missing device or bus problem resolution.
950-2528	2528 221	Missing options resolution for PCI-X Dual Channel U320 SCSI Adapter. Action: Use MAP 0291: Missing device or bus problem resolution
950-2529	2529 221	Missing options resolution for PCI-X Dual Channel U320 SCSI RAID Adapter. Action: Use MAP 0291: Missing device or bus problem resolution
950-252B	252B 221	Missing options resolution for PCI-X DDR Dual Channel U320 SCSI Action: Use MAP 0291: Missing device or bus problem resolution
950-252D	252D 221	Missing options resolution for PCI-X DDR Dual Channel U320 SCSI Action: Use MAP 0291: Missing device or bus problem resolution
950-xxxx	xxxx B88 190 152	The device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution. Note: xxxx corresponds to the last three or four digits of the SRN after the dash (-). If your 950-xxxx SRN is not listed, substitute the last three or four digits of the SRN for xxxx.

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Service Request Number	Failing Function Codes	Description and Action
951-xxx to 957-xxx		See SCSI devices SRNs ssss-102 through ssss-640.
959-102	959	Non-recoverable medium error. Action: Use MAP 0210: General problem resolution.
959-104	959	Motor failed to restart. Action: Use MAP 0210: General problem resolution.
959-105	959	The drive did not become ready. Action: Use MAP 0210: General problem resolution.
959-106	959	Electronics card failure. Action: Use MAP 0210: General problem resolution.
959-108	959	Bus failure. Action: Use MAP 0210: General problem resolution.
959-110	959	The media format is corrupted. Action: Use MAP 0210: General problem resolution.
959-112	959	Diagnostic failure. Action: Use MAP 0210: General problem resolution.
959-114	959	Non-recoverable hardware error. Action: Use MAP 0210: General problem resolution.
959-116		A protocol error was detected. Action: Check the levels of the device, adapter, diagnostic and application software, and ensure they are all compatible. If you do not find a problem, call your support person.
959-117	959	write-protect error. Action: Use MAP 0210: General problem resolution.
959-118	959 B88	SCSI command timeout. Action: Use MAP 0210: General problem resolution.
959-120	959	SCSI busy/command error. Action: Use MAP 0210: General problem resolution.
959-122	959	SCSI reservation conflict error. Action: Use MAP 0210: General problem resolution.
959-124	959	SCSI check condition error. Action: Use MAP 0210: General problem resolution.
959-126	959 B88	Software error caused by hardware failure. Action: Use MAP 0210: General problem resolution.
959-128	959	Error log analysis indicates hardware failure. Action: Use MAP 0210: General problem resolution.
959-129	190 959 B88 software	Error log analysis indicates a SCSI bus problem. Action: Use MAP 0210: General problem resolution.
959-130	959	Error log analysis indicates a problem reported by the disk drive's self-monitoring function. Action: Use MAP 0210: General problem resolution.
959-134	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
959-135	959 B88 software	The device failed to configure. Action: Use MAP 0210: General problem resolution.
959-136	959	The certify operation failed. Action: Use MAP 0210: General problem resolution.
959-137	959 B88 190	Unit attention condition has occurred on the Send Diagnostic command. Action: Use MAP 0210: General problem resolution.
960-xxx		See SCSI devices SRNs ssss-102 through ssss-640.
964-101	964	Timeout while attempting to communicate with SCSI device. Action: Use MAP 0210: General problem resolution.
964-102	964	The SCSI device indicates busy. Action: Use MAP 0210: General problem resolution.
964-103	964	The SCSI device indicates a reservation conflict. Action: Use MAP 0210: General problem resolution.
964-104	964	The SCSI device indicates a check condition. Action: Use MAP 0210: General problem resolution.
964-105	964	An error is detected in request sense data. Action: Use MAP 0210: General problem resolution.
964-107	964	Sense data from the SCSI drive has unexpected data. Action: Use MAP 0210: General problem resolution.
964-110	964	The Reserve command failed. Action: Use MAP 0210: General problem resolution.
964-111	964	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution.
964-112	964	The write-protect sensor test failed. Action: Use MAP 0210: General problem resolution.
964-113	964	Invalid condition from drive after a request sense. Action: Use MAP 0210: General problem resolution.
964-114	964	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution.
964-120	964	The Inquiry command failed. Action: Use MAP 0210: General problem resolution.
964-130	964 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
964-134	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
964-135	964 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
964-140	964	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
964-150	964 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
964-160	964 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
964-161	964 B88	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution.
964-163	964 B88	Invalid condition from the drive after a request sense. Action: Use MAP 0210: General problem resolution.
964-164	964 B88	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution.
964-165	964 B88 276	Write, Read and Compare Test failed. Action: Use MAP 0210: General problem resolution.
964-166	964 B88 software	Unable to configure the device. Action: Use MAP 0210: General problem resolution.
964-167	964 B88	An unexpected SCSI error occurred. Action: Use MAP 0210: General problem resolution.
964-168	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
964-169	964 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
964-170	964 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
964-180	964 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
964-185	964 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
964-190	964	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
964-200	964 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
964-201	964 B88	Error diagnosed from error log analysis. Action: Use MAP 0210: General problem resolution.
964-210	964 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
964-211	964 B88	The device open failed. Action: Use MAP 0210: General problem resolution.
964-220	964	The Release command failed. Action: Use MAP 0210: General problem resolution.
964-230	964	The Request Sense command failed. Action: Use MAP 0210: General problem resolution.
964-240	964	The Openx command failed. Action: Use MAP 0210: General problem resolution.
964-260	964	The device configuration failed. Action: Use MAP 0210: General problem resolution.
964-261	964	The device open failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
964-300	964 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
964-310	B88 964 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
964-320	964 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
964-411 to 964-423	964 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.
964-511 to 964-523	964 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
964-611 to 964-623	964 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
964-711 to 964-723	964 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.
966-101	966	Error in non-interactive tests. Action: Use MAP 0210: General problem resolution.
966-103	966	The test pattern failed. Action: Use MAP 0210: General problem resolution.
966-201	966 190	Error in non-interactive tests on card. Action: Use MAP 0210: General problem resolution.
966-203	966 190	The test pattern failed. Action: Use MAP 0210: General problem resolution.
966-205	966 190	Test pattern failed. Action: Use MAP 0210: General problem resolution.
966-207	966 190	Test pattern failed. Action: Use MAP 0210: General problem resolution.
966-208	190	Error in non-interactive test on card. Action: Use MAP 0210: General problem resolution.
966-209	190	Test pattern failed. Action: Use MAP 0210: General problem resolution.
966-211	190	Test pattern failed. Action: Use MAP 0210: General problem resolution.
966-213	190	Test pattern failed. Action: Use MAP 0210: General problem resolution.
966-304	E22 725 966	Video error in interactive test. Action: Use MAP 0210: General problem resolution.
966-306	E23 725 966	Audio error in interactive test. Action: Use MAP 0210: General problem resolution.
966-310	E22 725	Video error in interactive test. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
966-312	E22 725	Audio error in interactive test. Action: Use MAP 0210: General problem resolution.
966-400	152 190 E24 166	Error in non-interactive tests. Action: Use MAP 0210: General problem resolution.
966-402	190 E23 E22	Test pattern failed. Action: Use MAP 0210: General problem resolution.
968-xxx		See SCSI devices SRNs ssss-102 through ssss-640.
970-098	970	Tape drive indicates an error.
970-099	970 B88	Tape drive not found.
970-101	970	Timeout while attempting to communicate with SCSI device. Action: Use MAP 0210: General problem resolution.
970-102	970	The SCSI device indicates busy. Action: Use MAP 0210: General problem resolution.
970-103	970	The SCSI device indicates a reservation conflict. Action: Use MAP 0210: General problem resolution.
970-104	970	The SCSI device indicates a check condition. Action: Use MAP 0210: General problem resolution.
970-105	970	An error is detected in request sense data. Action: Use MAP 0210: General problem resolution.
970-107	970	Sense data from the SCSI drive has unexpected data. Action: Use MAP 0210: General problem resolution.
970-110	970	The Reserve command failed. Action: Use MAP 0210: General problem resolution.
970-111	970	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution.
970-112	970	The write-protect sensor test failed. Action: Use MAP 0210: General problem resolution.
970-113	970	Invalid condition from drive after a request sense. Action: Use MAP 0210: General problem resolution.
970-114	970	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution.
970-120	970	The Inquiry command failed. Action: Use MAP 0210: General problem resolution.
970-130	970 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
970-134	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
970-135	970 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
970-140	970	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
970-150	970 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
970-160	970 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
970-161	970 B88	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution.
970-163	970 B88	Invalid condition from the drive after a request sense. Action: Use MAP 0210: General problem resolution.
970-164	970 B88	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution.
970-165	970 B88 276	Write, Read and Compare Test failed. Action: Use MAP 0210: General problem resolution.
970-166	970 B88 software	Unable to configure the device. Action: Use MAP 0210: General problem resolution.
970-167	970 B88	An unexpected SCSI error occurred. Action: Use MAP 0210: General problem resolution.
970-168	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
970-169	970 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
970-170	970 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
970-180	970 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
970-185	970 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
970-190	970	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
970-200	970 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
970-201	970 B88	Error diagnosed from error log analysis. Action: Use MAP 0210: General problem resolution.
970-210	970 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
970-211	970 B88	The device open failed. Action: Use MAP 0210: General problem resolution.
970-220	970	The Release command failed. Action: Use MAP 0210: General problem resolution.
970-230	970	The Request Sense command failed. Action: Use MAP 0210: General problem resolution.
970-240	970	The Openx command failed. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
970-260	970	The device configuration failed. Action: Use MAP 0210: General problem resolution.
970-261	970	The device open failed. Action: Use MAP 0210: General problem resolution.
970-300	970 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
970-310	B88 970 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
970-320	970 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
970-411 to 970-423	970 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.
970-511 to 970-523	970 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
970-57D	57D	The resource does not respond. Action: Use MAP 0210: General problem resolution.
970-611 to 970-623	970 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
970-711 to 970-723	970 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.
971-101	971	Timeout while attempting to communicate with SCSI device. Action: Use MAP 0210: General problem resolution.
971-102	971	The SCSI device indicates busy. Action: Use MAP 0210: General problem resolution.
971-103	971	The SCSI device is indicating a reservation conflict. Action: Use MAP 0210: General problem resolution.
971-104	971	The SCSI device indicates a check condition. Action: Use MAP 0210: General problem resolution.
971-105	971	Sense data from the SCSI device shows an error. Action: Use MAP 0210: General problem resolution.
971-107	971	The SCSI drive returned unexpected sense data. Action: Use MAP 0210: General problem resolution.
971-110	971	The Reserve command failed. Action: Use MAP 0210: General problem resolution.
971-111	971	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution.
971-112	971	The write-protect sensor test failed. Action: Use MAP 0210: General problem resolution.
971-113	971	Invalid condition from the drive after a request sense. Action: Use MAP 0210: General problem resolution.
971-114	971	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
971-120	971	The Inquiry command failed. Action: Use MAP 0210: General problem resolution.
971-130	971 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
971-135	971 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
971-140	971	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
971-150	971 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution
971-160	971 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution
971-161	971 B88	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution
971-163	971 B88	Invalid condition from the drive after a request sense. Action: Use MAP 0210: General problem resolution
971-164	971 B88	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution
971-165	971 B88 276	Write, Read and Compare Test failed. Action: Use MAP 0210: General problem resolution
971-166	971 B88 software	Unable to configure the device. Action: Use MAP 0210: General problem resolution
971-167	971 B88	An unexpected SCSI error occurred. Action: Use MAP 0210: General problem resolution
971-168	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution
971-169	971 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution
971-170	971 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution
971-180	971 media	The Load command failed. Action: Use MAP 0210: General problem resolution
971-185	971 media	The Unload command failed. Action: Use MAP 0210: General problem resolution
971-190	971	The Mode Select command failed. Action: Use MAP 0210: General problem resolution
971-200	971 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution
971-201	971 B88	An error is diagnosed from the error log analysis. Action: Use MAP 0210: General problem resolution
971-210	971 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution

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Service Request Number	Failing Function Codes	Description and Action
971-211	971 B88	The device open test failed. Action: Use MAP 0210: General problem resolution
971-220	971	The Release command failed. Action: Use MAP 0210: General problem resolution
971-230	971	The Request Sense command failed. Action: Use MAP 0210: General problem resolution
971-240	971	The Openx command failed. Action: Use MAP 0210: General problem resolution
971-260	971	The device configuration failed. Action: Use MAP 0210: General problem resolution
971-261	971	The device open test failed. Action: Use MAP 0210: General problem resolution
971-300	971 software	The device configuration failed. Action: Use MAP 0210: General problem resolution
971-310	B88 971 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution
971-320	971 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution
971-411 to 971-423	971 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution
971-511 to 971-523	971 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution
971-611 to 971-623	971 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution
971-711 to 971-723	971 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution
972-101	972	Timeout while attempting to communicate with SCSI device. Action: Use MAP 0210: General problem resolution
972-102	972	The SCSI device indicates busy. Action: Use MAP 0210: General problem resolution
972-103	972	The SCSI device indicates a reservation conflict. Action: Use MAP 0210: General problem resolution
972-104	972	The SCSI device indicates a check condition. Action: Use MAP 0210: General problem resolution
972-105	972	An error is detected in request sense data. Action: Use MAP 0210: General problem resolution
972-107	972	The drive has returned unexpected sense data. Action: Use MAP 0210: General problem resolution
972-110	972	The Reserve command failed. Action: Use MAP 0210: General problem resolution
972-111	972	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution

Service Request Number	Failing Function Codes	Description and Action
972-112	972	The write-protect sensor test failed. Action: Use MAP 0210: General problem resolution
972-113	972	Invalid condition from the drive after a request sense. Action: Use MAP 0210: General problem resolution
972-114	972	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution
972-120	972	The Inquiry command failed. Action: Use MAP 0210: General problem resolution
972-130	972 media	The Load command failed. Action: Use MAP 0210: General problem resolution
972-135	972 media	The Unload command failed. Action: Use MAP 0210: General problem resolution
972-140	972	The Mode Select command failed. Action: Use MAP 0210: General problem resolution
972-150	972 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution
972-160	972 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution
972-161	972 B88	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution
972-163	972 B88	Invalid condition from the drive after a request sense. Action: Use MAP 0210: General problem resolution
972-164	972 B88 276	Timeout while attempting communication with SCSI device. Action: Use MAP 0210: General problem resolution
972-165	972 B88 276	Write, Read and Compare Test failed. Action: Use MAP 0210: General problem resolution
972-166	972 B88 software	Unable to configure the device. Action: Use MAP 0210: General problem resolution
972-167	972 B88	An unexpected SCSI error occurred. Action: Use MAP 0210: General problem resolution
972-168	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution
972-169	972 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution
972-170	972 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution
972-180	972 media	The Load command failed. Action: Use MAP 0210: General problem resolution
972-185	972 media	The Unload command failed. Action: Use MAP 0210: General problem resolution
972-190	972	The Mode Select command failed. Action: Use MAP 0210: General problem resolution

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Service Request Number	Failing Function Codes	Description and Action
972-200	972 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution
972-201	972 B88	An error is diagnosed from the error log analysis. Action: Use MAP 0210: General problem resolution
972-210	972 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution
972-211	972 B88	The device open test failed. Action: Use MAP 0210: General problem resolution
972-220	972	The Release command failed. Action: Use MAP 0210: General problem resolution
972-230	972	The Request Sense command failed. Action: Use MAP 0210: General problem resolution
972-240	972	The Openx command failed. Action: Use MAP 0210: General problem resolution
972-260	972	The device configuration test failed. Action: Use MAP 0210: General problem resolution
972-261	972	The device open test failed. Action: Use MAP 0210: General problem resolution
972-300	972 software	The device configuration failed. Action: Use MAP 0210: General problem resolution
972-310	B88 972 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution
972-320	972 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution
972-411 to 972-423	972 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution
972-511 to 972-523	972 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution
972-611 to 972-623	972 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution
972-711 to 972-723	972 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution
973-110	973	The Reserve command failed. Action: Use MAP 0210: General problem resolution
973-120	973	The Inquiry command failed. Action: Use MAP 0210: General problem resolution
973-130	973 media	The Load command failed. Action: Use MAP 0210: General problem resolution
973-135	973 media	The Unload command failed. Action: Use MAP 0210: General problem resolution
973-140	973	The Mode Select command failed. Action: Use MAP 0210: General problem resolution

Service Request Number	Failing Function Codes	Description and Action
973-150	973 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution
973-160	973 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution
973-169	973 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution
973-170	973 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution
973-180	973 media	The Load command failed. Action: Use MAP 0210: General problem resolution
973-185	973 media	The Unload command failed. Action: Use MAP 0210: General problem resolution
973-190	973	The Mode Select command failed. Action: Use MAP 0210: General problem resolution
973-200	973 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution
973-210	973 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution
973-220	973	The Release command failed. Action: Use MAP 0210: General problem resolution
973-230	973	The Request Sense command failed. Action: Use MAP 0210: General problem resolution
973-240	973	The Openx command failed. Action: Use MAP 0210: General problem resolution
973-300	973 software	The device configuration failed. Action: Use MAP 0210: General problem resolution
973-310	B88 973 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution
973-320	973 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution
973-411 to 973-423	973 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution
973-511 to 973-523	973 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution
973-611 to 973-623	973 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution
973-711 to 973-723	973 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution
974-111	974 B88	Unable to reserve device. Action: Use MAP 0210: General problem resolution
974-112	974 B88	Unable to do configuration. Action: Use MAP 0210: General problem resolution

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Service Request Number	Failing Function Codes	Description and Action
974-113	974 B88	Unable to open the device driver. Action: Use MAP 0210: General problem resolution
974-121	974	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
974-122	974	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
974-123	974	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
974-125	974 B88	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
974-126	974	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
974-127	974	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
974-128	974	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
974-129	974	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
974-150	Test-Disc 974	A media error was detected. Action: Use MAP 0210: General problem resolution
974-151	974 D88	A command timeout was detected. Action: Use MAP 0210: General problem resolution
974-152	974	A command reservation conflict was detected. Action: Use MAP 0210: General problem resolution
974-162	974	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
974-171	974	Unable to reserve device. Action: Use MAP 0210: General problem resolution
974-172	974	Unable to do configuration. Action: Use MAP 0210: General problem resolution
974-173	974	Unable to open device driver. Action: Use MAP 0210: General problem resolution
974-175	974	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
974-198	974 B88	Undefined error detected. Action: Use MAP 0210: General problem resolution
974-199	974	Undefined error detected. Action: Use MAP 0210: General problem resolution
974-211	974	The LED test failed. Action: Use MAP 0210: General problem resolution
974-281	974	No tone during audio test. Action: Use MAP 0210: General problem resolution
974-301	974	Errors found during ELA. Action: Use MAP 0210: General problem resolution
974-302	974 B88	Errors log analysis indicates hardware failure. Action: Use MAP 0210: General problem resolution

Service Request Number	Failing Function Codes	Description and Action
981-xxx		See SCSI devices SRNs ssss-102 through ssss-640.
984-xxx		See SCSI devices SRNs ssss-102 through ssss-640.
986-xxx		See SCSI devices SRNs ssss-102 through ssss-640.
989-xxx		See SCSI devices SRNs ssss-102 through ssss-640.
980-xxx		See SCSI devices SRNs ssss-102 through ssss-640.
991-101	991	Timeout while attempting to communicate with SCSI device. Action: Use MAP 0210: General problem resolution
991-102	991	The SCSI device indicates busy. Action: Use MAP 0210: General problem resolution
991-103	991	The SCSI device is indicating a reservation conflict. Action: Use MAP 0210: General problem resolution
991-104	991	The SCSI device indicates a check condition. Action: Use MAP 0210: General problem resolution
991-105	991	Sense data from the SCSI device shows an error. Action: Use MAP 0210: General problem resolution
991-107	991	The SCSI drive returned unexpected sense data. Action: Use MAP 0210: General problem resolution
991-110	991	The Reserve command failed. Action: Use MAP 0210: General problem resolution
991-111	991	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution
991-112	991	The write-protect sensor test failed. Action: Use MAP 0210: General problem resolution
991-113	991	Invalid condition from the drive after a request sense. Action: Use MAP 0210: General problem resolution
991-114	991	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution
991-120	991	The Inquiry command failed. Action: Use MAP 0210: General problem resolution
991-130	991 media	The Load command failed. Action: Use MAP 0210: General problem resolution
991-135	991 media	The Unload command failed. Action: Use MAP 0210: General problem resolution
991-140	991	The Mode Select command failed. Action: Use MAP 0210: General problem resolution
991-150	991 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution
991-160	991 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution
991-161	991 B88	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution
991-163	991 B88	Invalid condition from the drive after a request sense. Action: Use MAP 0210: General problem resolution

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Service Request Number	Failing Function Codes	Description and Action
991-164	991 B88	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution
991-165	991 B88 276	Write, Read and Compare Test failed. Action: Use MAP 0210: General problem resolution
991-166	991 B88 software	The device failed to configure. Action: Use MAP 0210: General problem resolution
991-167	991 B88	An unexpected SCSI error occurred. Action: Use MAP 0210: General problem resolution
991-168	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution
991-169	991 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution
991-170	991 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution
991-180	991 media	The Load command failed. Action: Use MAP 0210: General problem resolution
991-185	991 media	The Unload command failed. Action: Use MAP 0210: General problem resolution
991-190	991	The Mode Select command failed. Action: Use MAP 0210: General problem resolution
991-200	991 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution
991-201	991 B88	An error is diagnosed from the error log analysis. Action: Use MAP 0210: General problem resolution
991-210	991 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution
991-211	991 B88	The device open test failed. Action: Use MAP 0210: General problem resolution
991-220	991	The Release command failed. Action: Use MAP 0210: General problem resolution
991-230	991	The Request Sense command failed. Action: Use MAP 0210: General problem resolution
991-240	991	The Openx command failed. Action: Use MAP 0210: General problem resolution
991-260	991	The device configuration failed. Action: Use MAP 0210: General problem resolution
991-261	991	The device open test failed. Action: Use MAP 0210: General problem resolution
991-300	991 software	The device configuration failed. Action: Use MAP 0210: General problem resolution
991-310	B88 991 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution

Service Request Number	Failing Function Codes	Description and Action
991-320	991 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution
991-411 to 991-423	991 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution
991-511 to 991-523	991 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution
991-611 to 991-623	991 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution
991-711 to 991-723	991 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution
994-110	994	The Reserve command failed. Action: Use MAP 0210: General problem resolution
994-120	994	The Inquiry command failed. Action: Use MAP 0210: General problem resolution
994-130	994 media	The Load command failed. Action: Use MAP 0210: General problem resolution
994-135	994 media	The Unload command failed. Action: Use MAP 0210: General problem resolution
994-140	994	The Mode Select command failed. Action: Use MAP 0210: General problem resolution
994-150	994 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution
994-160	994 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution
994-169	994 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution
994-170	994 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution
994-180	994 media	The Load command failed. Action: Use MAP 0210: General problem resolution
994-185	994 media	The Unload command failed. Action: Use MAP 0210: General problem resolution
994-190	994	The Mode Select command failed. Action: Use MAP 0210: General problem resolution
994-200	994 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution
994-210	994 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution
994-220	994	The Release command failed. Action: Use MAP 0210: General problem resolution
994-230	994	The Request Sense command failed. Action: Use MAP 0210: General problem resolution

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Service Request Number	Failing Function Codes	Description and Action
994-240	994	The Openx command failed. Action: Use MAP 0210: General problem resolution
994-300	994 software	The device configuration failed. Action: Use MAP 0210: General problem resolution
994-310	B88 994 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution
994-320	994 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution
994-411 to 994-423	994 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution
994-511 to 994-523	994 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution
994-611 to 994-623	994 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution
994-711 to 994-723	994 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution
995-110	995	The Reserve command failed. Action: Use MAP 0210: General problem resolution
995-120	995	The Inquiry command failed. Action: Use MAP 0210: General problem resolution
995-130	995 media	The Load command failed. Action: Use MAP 0210: General problem resolution
995-135	995 media	The Unload command failed. Action: Use MAP 0210: General problem resolution
995-140	995	The Mode Select command failed. Action: Use MAP 0210: General problem resolution
995-150	995 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution
995-160	995 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution
995-169	995 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution
995-170	995 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution
995-180	995 media	The Load command failed. Action: Use MAP 0210: General problem resolution
995-185	995 media	The Unload command failed. Action: Use MAP 0210: General problem resolution
995-190	995	The Mode Select command failed. Action: Use MAP 0210: General problem resolution
995-200	995 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution

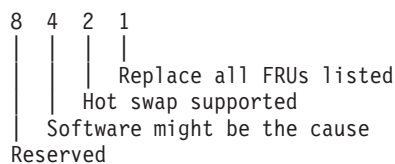
Service Request Number	Failing Function Codes	Description and Action
995-210	995 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution
995-220	995	The Release command failed. Action: Use MAP 0210: General problem resolution
995-230	995	The Request Sense command failed. Action: Use MAP 0210: General problem resolution
995-240	995	The Openx command failed. Action: Use MAP 0210: General problem resolution
995-300	995 software	The device configuration failed. Action: Use MAP 0210: General problem resolution
995-310	B88 995 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution
995-320	995 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution
995-411 to 995-423	995 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution
995-511 to 995-523	995 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution
995-611 to 995-623	995 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution
995-711 to 995-723	995 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution
998-110	998	The Reserve command failed. Action: Use MAP 0210: General problem resolution
998-120	998	The Inquiry command failed. Action: Use MAP 0210: General problem resolution
998-130	998 media	The Load command failed. Action: Use MAP 0210: General problem resolution
998-135	998 media	The Unload command failed. Action: Use MAP 0210: General problem resolution
998-140	998	The Mode Select command failed. Action: Use MAP 0210: General problem resolution
998-150	998 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution
998-160	998 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution
998-169	998 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution
998-170	998 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution
998-180	998 media	The Load command failed. Action: Use MAP 0210: General problem resolution

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Service Request Number	Failing Function Codes	Description and Action
998-185	998 media	The Unload command failed. Action: Use MAP 0210: General problem resolution
998-190	998	The Mode Select command failed. Action: Use MAP 0210: General problem resolution
998-200	998 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution
998-210	998 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution
998-220	998	The Release command failed. Action: Use MAP 0210: General problem resolution
998-230	998	The Request Sense command failed. Action: Use MAP 0210: General problem resolution
998-240	995	The Openx command failed. Action: Use MAP 0210: General problem resolution
998-300	995 software	The device configuration failed. Action: Use MAP 0210: General problem resolution
998-310	B88 995 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution
998-320	995 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution
998-411 to 998-423	998 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution
998-511 to 998-523	998 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution
998-611 to 998-623	998 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution
998-711 to 998-723	998 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution
999-xxx series	999	A 7137 or 3514 disk array subsystem problem is indicated. Action: Use 7137 or 3514 documentation.
9CC-1xx		I/O Error on PCI bus. Action: Refer to the Bus SRN to FRU Reference Table in the system unit's service guide. Note: xx represents the last 2 digits of the SRN.
9CC-xxx	xxx 2C9	I/O Bus Data, Address Parity Error, or Time-out error. Note: xxx represents the last 3 digits of the SRN. Action: Use MAP 0210: General problem resolution
xxxxxx	none	You have a six-digit error code (like an SRN) containing no dash (-) between the third and fourth digits. Action: Use the "Error Code to FRU Index" in the service guide.
xxxxxxx	none	High level platform error. Action: Refer to the system service information.

SRNs A00-FF0 through A25-001

The *x* in the following group of SRNs is encoded as follows:



Note: Some SRNs in this chapter may have 4 rather than 3 digits after the dash (-).

Use the physical location codes and FRU numbers listed on the diagnostics Problem Report Screen. Failing Function Codes (FFCs) are not used in this group of SRNs. For more detailed information refer to MAP 0230: Platform error problem resolution.

Service Request Number	Failing Function Code	Description and Action
A00-FF0		Description: Error log analysis is unable to determine the error. The error log indicates the following physical FRU locations as the probable causes. Action: Use MAP 0230: Platform error problem resolution.
A01-00x		Description: Error log analysis indicates an error detected by the CPU, but the failure could not be isolated. Action: Use MAP 0230: Platform error problem resolution.
A01-01x		Description: CPU internal error. Action: Use MAP 0230: Platform error problem resolution.
A01-02x		Description: CPU internal cache or cache controller error. Action: Use MAP 0230: Platform error problem resolution.
A01-03x		Description: External cache parity or multi-bit ECC error. Action: Use MAP 0230: Platform error problem resolution.
A01-04x		Description: External cache ECC single-bit error. Action: Use MAP 0230: Platform error problem resolution.
A01-05x		Description: System bus time-out error. Action: Use MAP 0230: Platform error problem resolution.
A01-06x		Description: Time-out error waiting for I/O. Action: Use MAP 0230: Platform error problem resolution.
A01-07x		Description: System bus parity error. Action: Action: Use MAP 0230: Platform error problem resolution.
A01-08x		Description: System bus protocol/transfer error. Action: Use MAP 0230: Platform error problem resolution.
A02-00x		Description: Error log analysis indicates an error detected by the memory controller, but the failure could not be isolated. Action: Use MAP 0230: Platform error problem resolution.
A02-01x		Description: Uncorrectable Memory Error. Action: Use MAP 0230: Platform error problem resolution.
A02-02x		Description: ECC correctable error. Action: Use MAP 0230: Platform error problem resolution.
A02-03x		Description: Correctable error threshold exceeded. Action: Use MAP 0230: Platform error problem resolution.
A02-04x		Description: Memory Control subsystem internal error. Action: Use MAP 0230: Platform error problem resolution.

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Service Request Number	Failing Function Code	Description and Action
A02-05x		Description: Memory Address Error (invalid address or access attempt). Action: Use MAP 0230: Platform error problem resolution.
A02-06x		Description: Memory Data error (Bad data going to memory). Action: Use MAP 0230: Platform error problem resolution.
A02-07x		Description: Memory bus/switch internal error. Action: Use MAP 0230: Platform error problem resolution.
A02-08x		Description: Memory time-out error. Action: Use MAP 0230: Platform error problem resolution.
A02-09x		Description: System bus parity error. Action: Use MAP 0230: Platform error problem resolution.
A02-10x		Description: System bus time-out error. Action: Use MAP 0230: Platform error problem resolution.
A02-11x		Description: System bus protocol/transfer error. Action: Use MAP 0230: Platform error problem resolution.
A02-12x		Description: I/O Host Bridge time-out error. Action: Use MAP 0230: Platform error problem resolution.
A02-13x		Description: I/O Host Bridge address/data parity error. Action: Use MAP 0230: Platform error problem resolution.
A02-15x		Description: System support function error. Action: Use MAP 0230: Platform error problem resolution.
A02-16x		Description: System bus internal hardware/switch error. Action: Use MAP 0230: Platform error problem resolution.
A03-00x		Description: Error log analysis indicates an error detected by the I/O device, but the failure could not be isolated. Action: Use MAP 0230: Platform error problem resolution.
A03-01x		Description: I/O Bus Address parity error. Action: Use MAP 0230: Platform error problem resolution.
A03-02x		Description: I/O Bus Data parity error. Action: Use MAP 0230: Platform error problem resolution.
A03-03x		Description: I/O bridge/device time-out, access or other error. Action: Use MAP 0230: Platform error problem resolution.
A03-04x		Description: I/O bridge/device internal error. Action: Use MAP 0230: Platform error problem resolution.
A03-05x		Description: I/O Error on non-PCI bus. Action: Use MAP 0230: Platform error problem resolution.
A03-06x		Description: Mezzanine bus address parity error. Action: Use MAP 0230: Platform error problem resolution.
A03-07x		Description: System bus address parity error. Action: Use MAP 0230: Platform error problem resolution.
A03-08x		Description: Mezzanine bus data parity error. Action: Use MAP 0230: Platform error problem resolution.
A03-09x		Description: System bus data parity error. Action: Use MAP 0230: Platform error problem resolution.
A03-10x		Description: Mezzanine bus time-out, transfer or protocol error. Action: Use MAP 0230: Platform error problem resolution.
A03-11x		Description: System bus time-out error. Action: Use MAP 0230: Platform error problem resolution.

Service Request Number	Failing Function Code	Description and Action
A03-12x		Description: Error on System bus. Action: Use MAP 0230: Platform error problem resolution.
A03-13x		Description: I/O Expansion bus parity error. Action: Use MAP 0230: Platform error problem resolution.
A03-14x		Description: I/O Expansion bus time-out error. Action: Use MAP 0230: Platform error problem resolution.
A03-15x		Description: I/O Expansion bus connection failure. Action: Use MAP 0230: Platform error problem resolution.
A03-16x		Description: I/O Expansion unit not in an operating state. Action: Use MAP 0230: Platform error problem resolution.
A05-00x		Description: Error log analysis indicates an environmental and power warning, but the failure could not be isolated. Action: Use MAP 0230: Platform error problem resolution.
A05-01x		Description: Sensor indicates a fan has failed. Action: Use MAP 0230: Platform error problem resolution.
A05-02x		Description: System shutdown due to a fan failure. Action: Use MAP 0230: Platform error problem resolution.
A05-03x		Description: Sensor indicates a voltage outside normal range. Action: Use Power problem isolation for your system.
A05-04x		Description: System shutdown due to voltage outside normal range. Action: Use Power problem isolation for your system.
A05-05x		Description: Sensor indicates an abnormally high internal temperature. Action: Verify that: <ul style="list-style-type: none"> 1. The room ambient temperature is within the system operating environment. 2. There is unrestricted air flow around the system. 3. All system covers are closed. 4. There are no fan failures. If none of these problems exist, then proceed with MAP 0230: Platform error problem resolution.
A05-06x		Description: System shutdown due to abnormally high internal temperature. Action: Verify that: <ul style="list-style-type: none"> 1. The room ambient temperature is within the system operating environment. 2. There is unrestricted air flow around the system. 3. All system covers are closed. 4. There are no fan failures. If none of these problems exist, then proceed with MAP 0230: Platform error problem resolution.
A05-07x		Description: Sensor indicates a power supply has failed. Action: Use MAP 0230: Platform error problem resolution.
A05-08x		Description: System shutdown due to power supply failure. Action: Use MAP 0230: Platform error problem resolution.
A05-09x		Description: Sensor detected a FRU that has failed. Action: Use MAP 0230: Platform error problem resolution.

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Service Request Number	Failing Function Code	Description and Action
A05-10x		Description: System shutdown due to FRU that has failed. Action: Use MAP 0230: Platform error problem resolution.
A05-14x		Description: System shutdown due to power fault with an unspecified cause. Action: Use MAP 0230: Platform error problem resolution.
A05-16x		Description: System shutdown due to internal power supply failure. Action: Use MAP 0230: Platform error problem resolution.
A05-19x		Description: System shutdown due to Fan failure. Action: Use MAP 0230: Platform error problem resolution.
A05-21x		Description: System shutdown due to over temperature condition. Action: Verify the following: <ul style="list-style-type: none"> • The room ambient temperature is within the system operating environment. • There is unrestricted air flow around the system. • All system covers are closed. If all conditions are met, then use MAP 0230: Platform error problem resolution.
A05-22x		Description: System shutdown due to over temperature and fan failure. Action: Use MAP 0230: Platform error problem resolution.
A05-24x		Description: Power fault specifically due to internal battery failure. Action: Use MAP 0230: Platform error problem resolution.
A0D-00x		Description: Error log analysis indicates an error detected by the service processor, but the failure could not be isolated. Action: Use MAP 0230: Platform error problem resolution.
A0D-01x		Note: Ensure that the system IPLROS and service processor are at the latest firmware level before removing any parts from the system. Description: Time-out communication response from service processor. Action: Use MAP 0230: Platform error problem resolution.
A0D-02x		Description: I/O (I2C) general bus error. Note: If you are servicing a 9076/Nxx system, go to the service processor Error Log (SVP). Action: Use MAP 0230: Platform error problem resolution.
A0D-03x		Description: Secondary I/O (I2C) general bus error. Action: Use MAP 0230: Platform error problem resolution.
A0D-04x		Description: Internal service processor memory error. Action: Use MAP 0230: Platform error problem resolution.
A0D-05x		Description: Service processor error accessing special registers. Action: Use MAP 0230: Platform error problem resolution.
A0D-06x		Description: Service processor reports unknown communication error. Action: Use MAP 0230: Platform error problem resolution.
A0D-07x		Description: Internal service processor firmware error or incorrect version. Action: Use MAP 0230: Platform error problem resolution.
A0D-08x		Description: Other internal service processor hardware error. Action: Use MAP 0230: Platform error problem resolution.
A0D-09x		Description: Service processor error accessing vital product data EEPROM. Action: Use MAP 0230: Platform error problem resolution.
A0D-10x		Description: Service processor error accessing operator panel. Action: Use MAP 0230: Platform error problem resolution.

Service Request Number	Failing Function Code	Description and Action
A0D-11x		Description: Service processor error accessing power controller. Action: Use MAP 0230: Platform error problem resolution.
A0D-12x		Description: Service processor error accessing fan sensor. Action: Use MAP 0230: Platform error problem resolution.
A0D-13x		Description: Service processor error accessing thermal sensor. Note: If you are servicing a 9076/Nxx system, go to the service processor Error Log (SVP). Action: Use MAP 0230: Platform error problem resolution.
A0D-14x		Description: Service processor error accessing voltage sensor. Note: If you are servicing a 9076/Nxx system, go to the service processor Error Log (SVP). Action: Use MAP 0230: Platform error problem resolution.
A0D-17x		Description: Service processor error accessing serial port. Action: Use MAP 0230: Platform error problem resolution.
A0D-18x		Description: Service processor detected NVRAM error. Action: Use MAP 0230: Platform error problem resolution.
A0D-19x		Description: Service processor error accessing real time clock/time-of-day clock. Action: Use MAP 0230: Platform error problem resolution.
A0D-20x		Description: Service processor error accessing scan controller/hardware. Action: Use MAP 0230: Platform error problem resolution.
A0D-21x		Description: Service processor detected error with time-of-day clock backup battery. Action: Use MAP 0230: Platform error problem resolution.
A0D-23x		Description: Loss of heart beat from service processor. Action: Use MAP 0230: Platform error problem resolution.
A0D-24x		Description: Service processor detected a surveillance time-out. Action: Use MAP 0230: Platform error problem resolution.
A0D-25x		Description: Power control network general connection failure. Action: Use MAP 0230: Platform error problem resolution.
A0D-26x		Description: Power control network node failure. Action: Use MAP 0230: Platform error problem resolution.
A0D-29x		Description: Service processor error accessing power control network. Action: Use MAP 0230: Platform error problem resolution.
A0D-30x		Description: Non-supported hardware. Action: Use MAP 0230: Platform error problem resolution.
A0D-31x		Description: Error detected while handling an attention/interrupt from the system hardware. Action: Use MAP 0230: Platform error problem resolution.
A0D-33x		Description: Array of Logic Built in Self Test Error. Action: Use MAP 0230: Platform error problem resolution.
A0D-34x		Description: Wire Test Error. Action: Use MAP 0230: Platform error problem resolution.
A0D-35x		Description: Mainstore or Cache IPL Diagnostic Error. Action: Use MAP 0230: Platform error problem resolution.
A0D-36x		Description: Other IPL Diagnostic Error. Action: Use MAP 0230: Platform error problem resolution.

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Service Request Number	Failing Function Code	Description and Action
A0D-37x		Description: Clock or PLL Error. Action: Use MAP 0230: Platform error problem resolution.
A0D-38x		Description: Hardware Scan or Initialization Error. Action: Use MAP 0230: Platform error problem resolution.
A0D-39x		Description: Chip ID Verification Error. Action: Use MAP 0230: Platform error problem resolution.
A0D-40x		Description: FRU Presence/Detect Error (Mis-Plugged). Action: Use MAP 0230: Platform error problem resolution.
A10-100		Description: The resource is unavailable due to an error. System is operating in degraded mode. Action: Use MAP 0230: Platform error problem resolution.
A10-200		Description: The resource was marked failed by the platform. The system is operating in degraded mode. Action: Use MAP 0230: Platform error problem resolution.
A10-210		Description: The processor has been deconfigured. The system is operating in degraded mode. Action: Use MAP 0230: Platform error problem resolution.
A11-00x		Description: A non-critical error has been detected. Error log analysis indicates an error detected by the CPU, but the failure could not be isolated. Action: Use MAP 0230: Platform error problem resolution.
A11-01x		Description: A non-critical error has been detected, a CPU internal error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A11-02x		Description: A non-critical error has been detected, a CPU internal cache or cache controller error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A11-03x		Description: A non-critical error has been detected, an external cache parity or multi-bit ECC error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A11-04x		Description: A non-critical error has been detected, an external cache ECC single-bit error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A11-05x		Description: A non-critical error has been detected, a system bus time-out error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A11-06x		Description: A non-critical error has been detected, a time-out error waiting for an I/O device. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A11-07x		Description: A non-critical error has been detected, a system bus parity error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.

Service Request Number	Failing Function Code	Description and Action
A11-08x		Description: A non-critical error has been detected, a system bus protocol/transfer error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A11-50x		Description: Recoverable errors on resource indicate a trend toward an unrecoverable error. However, the resource could not be deconfigured and is still in use. The system is operating with the potential for an unrecoverable error. Action: If repair is not immediately available, reboot and the resource will be deconfigured. Then operations can continue in a degraded mode. To repair use MAP 0230: Platform error problem resolution.
A11-510		Description: Resource has been deconfigured and is no longer in use due to a trend toward an unrecoverable error. Action: The system is operating in a degraded mode. Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A11-520		Description: Recoverable errors on resource indicate a trend toward an unrecoverable error. However, the resource could not be deconfigured and is still in use. The system is operating with the potential for an unrecoverable error. Action: Try removing the processes from the failing processor and retry the deconfiguration; use the ha_star -C command. An alternative is reboot, and the processor will be deconfigured. Then the system can continue in a degraded mode. To repair use MAP 0230: Platform error problem resolution.
A11-530		Description: Recoverable errors on resource indicate a trend toward an unrecoverable error. However, the resource could not be deconfigured and is still in use. The system is operating with the potential for an unrecoverable error. Run-time processor deconfiguration can be enabled to deconfigure the processor. Action: To enable run-time processor deconfiguration, use the chdev -a cpuguard=enable -l sys0 command. Then to retry the deconfiguration, use the ha_star -C command. An alternative is reboot, and the processor will be deconfigured. Then the system can continue in a degraded mode. To repair use MAP 0230: Platform error problem resolution.
A11-540		Description: Recoverable errors on resource indicate a trend toward an unrecoverable error. However, the resource could not be deconfigured and is still in use. The system is operating with the potential for an unrecoverable error. Action: If repair is not immediately available, reboot and the resource will be deconfigured. Then operations can continue in a degraded mode. To repair use MAP 0230: Platform error problem resolution.
A11-550		Description: Recoverable errors on resource indicate a trend toward an unrecoverable error. However, the resource could not be deconfigured and is still in use. The system is operating with the potential for an unrecoverable error. Action: If repair is not immediately available, reboot and the resource will be deconfigured. Then operations can continue in a degraded mode. To repair use MAP 0230: Platform error problem resolution.
A11-560		Description: Recoverable errors on a resource indicate a potential for unrecoverable errors. The resource cannot be deconfigured and is still in use. The problem may be corrected by array bit steering. Action: Use MAP 0235: System array self-repair problem resolution.

Service Request Number	Failing Function Code	Description and Action
A11-570		Description: A processor has been deconfigured due to a trend toward an unrecoverable error. The system is operating in a degraded mode. The problem may be corrected by array bit steering. Action: Use MAP 0235: System array self-repair problem resolution.
A11-580		Description: Recoverable errors on a processor indicate a potential for an unrecoverable error. The resource cannot be deconfigured and is still in use. The problem may be corrected by array bit steering. Action: Use MAP 0235: System array self-repair problem resolution.
A12-00x		Description: A non-critical error has been detected. Error log analysis indicates an error detected by the memory controller, but the failure could not be isolated. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A12-01x		Description: A non-critical error has been detected, an uncorrectable memory error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A12-02x		Description: A non-critical error has been detected, an ECC correctable error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A12-03x		Description: A non-critical error has been detected, a correctable error threshold exceeded. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A12-04x		Description: A non-critical error has been detected, a memory control subsystem internal error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A12-05x		Description: A non-critical error has been detected, a memory address error (invalid address or access attempt). Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A12-06x		Description: A non-critical error has been detected, a memory data error (bad data going to memory). Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A12-07x		Description: A non-critical error has been detected, a memory bus/switch internal error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A12-08x		Description: A non-critical error has been detected, a memory time-out error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A12-09x		Description: A non-critical error has been detected, a system bus parity error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.

Service Request Number	Failing Function Code	Description and Action
A12-10x		Description: A non-critical error has been detected, a system bus time-out error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A12-11x		Description: A non-critical error has been detected, a system bus protocol/transfer error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A12-12x		Description: A non-critical error has been detected, an I/O host bridge time-out error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A12-13x		Description: A non-critical error has been detected, a I/O host bridge address/data parity error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A12-15x		Description: A non-critical error has been detected, a system support function error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A12-16x		Description: A non-critical error has been detected, a system bus internal hardware/switch error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A12-50x		Description: Recoverable errors on resource indicate a trend toward an unrecoverable error. However, the resource could not be deconfigured and is still in use. The system is operating with the potential for an unrecoverable error. Action: If repair is not immediately available, reboot and the resource will be deconfigured. Then operations can continue in a degraded mode. Use MAP 0230: Platform error problem resolution.
A13-00x		Description: A non-critical error has been detected, a error log analysis indicates an error detected by the I/O device, but the failure could not be isolated. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A13-01x		Description: A non-critical error has been detected, an I/O bus address parity error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A13-02x		Description: A non-critical error has been detected, an I/O bus data parity error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A13-03x		Description: A non-critical error has been detected, an I/O bus time-out, access or other error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A13-04x		Description: A non-critical error has been detected, an I/O bridge/device internal error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.

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Service Request Number	Failing Function Code	Description and Action
A13-05x		Description: A non-critical error has been detected, an I/O error on non-PCI bus. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A13-06x		Description: A non-critical error has been detected, a mezzanine bus address parity error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution..
A13-07x		Description: A non-critical error has been detected, a system bus address parity error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A13-08x		Description: A non-critical error has been detected, a mezzanine bus data parity error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A13-09x		Description: A non-critical error has been detected, a system bus data parity error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A13-10x		Description: A non-critical error has been detected, a mezzanine bus time-out error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A13-11x		Description: A non-critical error has been detected, a system bus time-out error Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A13-12x		Description: A non-critical error has been detected, an error on system bus. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A13-13x		Description: A non-critical error has been detected, an I/O expansion bus parity error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A13-14x		Description: A non-critical error has been detected, an I/O expansion bus time-out error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A13-15x		Description: A non-critical error has been detected, an I/O expansion bus connection failure. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A13-16x		Description: A non-critical error has been detected, an I/O expansion unit not in an operating state. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.

Service Request Number	Failing Function Code	Description and Action
A13-50x		<p>Description: Recoverable errors on resource indicate a trend toward an unrecoverable error. However, the resource could not be deconfigured and is still in use. The system is operating with the potential for an unrecoverable error.</p> <p>Action: If repair is not immediately available, reboot and the resource will be deconfigured. Then operations can continue in a degraded mode. To repair use MAP 0230: Platform error problem resolution.</p>
A15-01x		<p>Description: Sensor indicates a fan is turning too slowly.</p> <p>Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.</p>
A15-03x		<p>Description: Sensor indicates a voltage outside normal range.</p> <p>Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.</p>
A15-05x		<p>Description: Sensor indicates an abnormally high internal temperature.</p> <p>Action: Verify that:</p> <ol style="list-style-type: none"> 1. The room ambient temperature is within the system operating environment. 2. There is unrestricted air flow around the system. 3. All system covers are closed. 4. There are no fan failures. <p>If none of these problems exist, then proceed with MAP 0230: Platform error problem resolution.</p>
A15-07x		<p>Description: Sensor indicates a power supply has failed.</p> <p>Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.</p>
A15-09x		<p>Description: Sensor indicates a FRU has failed.</p> <p>Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.</p>
A15-11x		<p>Description: Sensor detected a redundant fan failure.</p> <p>Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.</p>
A15-12x		<p>Description: Sensor detected redundant power supply failure.</p> <p>Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.</p>
A15-13x		<p>Description: Sensor detected a redundant FRU that has failed.</p> <p>Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.</p>
A15-14x		<p>Description: Power fault due to unspecified cause.</p> <p>Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.</p>
A15-16x		<p>Description: Internal power supply failure.</p> <p>Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.</p>
A15-17x		<p>Description: Internal redundant power supply failure.</p> <p>Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.</p>
A15-19x		<p>Description: Fan failure.</p> <p>Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.</p>

Service Request Number	Failing Function Code	Description and Action
A15-20x		Description: Non-critical cooling problem, loss of redundant fan. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A15-21x		Description: Over temperature condition. Action: Verify the following: <ul style="list-style-type: none"> • The room ambient temperature is within the system operating environment. • There is unrestricted air flow around the system. • All system covers are closed. If all conditions are met, then use MAP 0230: Platform error problem resolution.
A15-22x		Description: Fan failure and Over temperature condition. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A15-23x		Description: Non-critical power problem, loss of redundant power supply. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A15-24x		Description: Power Fault specifically due to internal battery failure. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A15-50x		Description: Recoverable errors on resource indicate a trend toward an unrecoverable error. However, the resource could not be deconfigured and is still in use. The system is operating with the potential for an unrecoverable error. Action: If repair is not immediately available, reboot and the resource will be deconfigured. Then operations can continue in a degraded mode. To repair use MAP 0230: Platform error problem resolution.
A1D-00x		Description: A non-critical error has been detected. Error log analysis indicates an error detected by the service processor, but the failure could not be isolated. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-01x		Note: Ensure that the system IPLROS and service processor are at the latest firmware level before removing any parts from the system. Description: A non-critical error has been detected. Time Out communication response from service processor Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-02x		Description: A non-critical error has been detected, an I/O (I2C) general bus error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-03x		Description: A non-critical error has been detected, a secondary I/O (I2C) general bus error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-04x		Description: A non-critical error has been detected, an internal service processor memory error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.

Service Request Number	Failing Function Code	Description and Action
A1D-05x		Description: A non-critical error has been detected, a service processor error accessing special registers. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-06x		Description: A non-critical error has been detected, a service processor reports unknown communication error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-07x		Description: A non-critical error has been detected. Internal service processor firmware error or incorrect version. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-08x		Description: A non-critical error has been detected, an other internal service processor hardware error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-09x		Description: A non-critical error has been detected, a service processor error accessing vital product data EEPROM. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-10x		Description: A non-critical error has been detected, a service processor error accessing operator panel. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-11x		Description: A non-critical error has been detected, a service processor error accessing power controller. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-12x		Description: A non-critical error has been detected, a service processor error accessing fan sensor. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-13x		Description: A non-critical error has been detected, a service processor error accessing a thermal sensor. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-14x		Description: A non-critical error has been detected, a service processor error accessing voltage sensor. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-17x		Description: A non-critical error has been detected, a service processor error accessing serial port. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-18x		Description: A non-critical error has been detected, a service processor detected NVRAM error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.

Service Request Number	Failing Function Code	Description and Action
A1D-19x		Description: A non-critical error has been detected, a service processor error accessing real time clock/time-of-day clock. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-20x		Description: A non-critical error has been detected: Service processor error accessing scan controller/hardware. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-21x		Description: A non-critical error has been detected, a service processor detected error with time-of-day clock backup battery. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-23x		Description: A non-critical error has been detected: Loss of heart beat from service processor. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-24x		Description: A non-critical error has been detected, a service processor detected a surveillance time-out. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-25x		Description: A non-critical error has been detected, a power control network general connection failure. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-26x		Description: A non-critical error has been detected, a power control network node failure. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-29x		Description: A non-critical error has been detected, a service process error accessing power control network. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-30x		Description: A non-critical error has been detected: Non-supported hardware. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-31x		Description: A non-critical error has been detected: Error detected while handling an attention/interrupt from the system hardware. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-33x		Description: A non-critical error has been detected: Array of Logic Built in Self Test Error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-34x		Description: A non-critical error has been detected: Wire Test Error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-35x		Description: A non-critical error has been detected: Mainstore or Cache IPL Diagnostic Error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.

Service Request Number	Failing Function Code	Description and Action
A1D-36x		Description: A non-critical error has been detected: Other IPL Diagnostic Error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-37x		Description: A non-critical error has been detected: Clock or PLL Error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-38x		Description: A non-critical error has been detected: Hardware Scan or Initialization Error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-39x		Description: A non-critical error has been detected: Chip ID Verification Error. Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-40x		Description: A non-critical error has been detected: Presence/Detect Error (Mis-Plugged). Action: Schedule deferred maintenance. Use MAP 0230: Platform error problem resolution.
A1D-50x		Description: Recoverable errors on resource indicate a trend toward an unrecoverable error. However, the resource could not be deconfigured and is still in use. The system is operating with the potential for an unrecoverable error. Action: If repair is not immediately available, reboot and the resource will be deconfigured. Then operations can continue in a degraded mode. To repair use MAP 0230: Platform error problem resolution.
A22-xxxx	xxxx	Defective Multipath I/O Device. Note: To obtain the FFC, substitute the last 3 or 4 digits after the dash (-) for xxxx (The substituted xxxx is the FFC). Action: Use MAP 0210: General problem resolution.
A23-001		Multipath I/O Problem Resolution. Action: Use MAP 0285: Multipath I/O (MPIO) problem resolution.
A24-000	Use part number from diagnostics 227	Spurious interrupts on shared interrupt level have exceeded threshold. Action: Use the part numbers reported by diagnostics and use MAP 0210: General problem resolution.
A24-xxx	Use xxx 227	Spurious interrupts have exceeded threshold. Action: Use MAP 0210: General problem resolution.
A25-001		Platform error, switch network interface extended error data is available. Action: Refer to the hardware management console. Use the system reference codes in the serviceable event view for this partition.

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Replace FRU parts in the order by which the "Failing Function Codes" are listed.

Service Request Number	Failing Function Codes	Description and Action
2502-101	2502	Adapter configuration error. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
2502-710	2502	Permanent controller failure. Action: Use MAP 0210: General problem resolution.
2502-713	2502	Controller failure. Action: Use MAP 0210: General problem resolution.
2502-720		Controller device bus configuration error. Action: Use to MAP 0050: SCSI Bus Problems.
2503-101	2503	Adapter configuration error. Action: Use MAP 0210: General problem resolution.
2503-710	2503	Permanent controller failure. Action: Use MAP 0210: General problem resolution.
2503-713	2503	Controller failure. Action: Use MAP 0210: General problem resolution.
2503-720		Controller device bus configuration error. Action: Use to MAP 0050: SCSI Bus Problems.
2512-101	2512	Adapter configuration error. Action: Use MAP 0210: General problem resolution.
2512-710	2512	Permanent adapter failure. Action: Use MAP 0210: General problem resolution.
2512-711	2512	Adapter failure. Action: Go to MAP 0210: General problem resolution
2512-712	2512	Adapter device bus configuration error. Action: PCI-X Dual Channel Ultra320 SCSI Adapter. Use MAP 0050: SCSI Bus Problems. PCI-X Ultra320 SCSI RAID: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-713	2512	Adapter failure. Action: Use MAP 0210: General problem resolution.
2512-714	2512	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
2512-715	2512	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
2512-716	2512 293	PCI bus error detected by EEH. Action: Use MAP 0210: General problem resolution.
2512-717	2512 293	PCI bus error detected by adapter. Action: Use MAP 0210: General problem resolution.
2512-718	2512 293	Temporary PCI bus error detected by adapter Action: Use MAP 0210: General problem resolution.
2512-719		Device bus termination power lost or not detected Action: PCI-X Dual Channel Ultra320 SCSI Adapter. Use MAP 0050: SCSI Bus Problems. PCI-X Ultra320 SCSI RAID: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-720		Adapter device bus configuration error. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, Use to MAP 0050: SCSI Bus Problems. For a PCI-X Ultra320 SCSI RAID adapter, use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

Service Request Number	Failing Function Codes	Description and Action
2512-721		Temporary adapter detected device bus failure. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, Use to MAP 0050: SCSI Bus Problems. For a PCI-X Ultra320 SCSI RAID adapter, use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-722	2512	Device bus interface problem. Action: Use MAP 0210: General problem resolution.
2512-723		Device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems
2512-724	2512	Temporary device bus interface problem. Action: Use MAP 0210: General problem resolution.
2512-725		Temporary device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems
2512-102E	722	Out of alternate disk storage for storage. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-3002	722	Addressed device failed to respond to selection. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-3010	722	Disk returned wrong response to adapter. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-3020		Storage subsystem configuration error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-3100		Adapter detected device bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-3101		Adapter detected device bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-3109		Adapter timed out a disk command. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-3110		Disk bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-7001	722	Temporary disk data error. Action: Use MAP 0210: General Problem Resolution If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-8008	2526 293	Permanent cache battery pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-8009	2526 293	Impending cache battery pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

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Service Request Number	Failing Function Codes	Description and Action
2512-9000		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9001		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9002		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9008		Controller does not support function expected for one or more disks. Action: Use MAP 3030 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9010		Cache data associated with attached disks cannot be found. Action: Use MAP 3020 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9011		Cache data belongs to disks other than those attached. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9020		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9021		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9022		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9023		One or more disk array members are not at the required physical locations. Action: Use MAP 3012 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9024		The physical location of disk array members conflict with another disk array. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9025		An incompatible disk is installed at a degraded disk location in the disk array. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9026		A previously degraded disk in the disk array was not found at the required physical location. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9027		A disk array is or would become degraded and the parity data is out of synchronization. Action: Use MAP 3013 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

Service Request Number	Failing Function Codes	Description and Action
2512-9028		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9029		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9030		The disk array is degraded due to a missing or failed disk. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9031		Automatic reconstruction initiated for the disk array. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9041		Background disk array parity checking detected and corrected errors. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9050		Required cache data cannot be located for one or more disks. Action: Use MAP 3031 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9051		Cache data exists for more than one missing or failed disks. Action: Use MAP 3032 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9052		Cache data exists for one or more modified disks. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9054		RAID controller resources are not available due to previous problems. Action: Use MAP 3021 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9060		One or more disk pairs are missing from a RAID-10 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9061		One or more disk pairs are missing from a RAID-10 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9062		One or more disk pairs are missing from a RAID-0 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9063		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9073		Multiple controllers connected in an invalid configuration. Action: Use MAP 3040 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9074		Multiple controllers connected in an invalid configuration. Action: Use MAP 3041 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

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Service Request Number	Failing Function Codes	Description and Action
2512-9081		Controller detected a device error during an internal media recovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9082		Controller detected a device error during an internal media recovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9090		Disk has been modified after last known status. Action: Use MAP 3033 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9091		Incorrect disk configuration change has been detected. Action: Use MAP 3033 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9092		Disk requires formatting before use. Action: Use MAP 3034 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9200		Identify disk to be replaced. Action: Use MAP 3036 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9032		Disk Array is degraded due to missing failed disk. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-9042		Background Disk Array parity checking detected and corrected errors on specified disk. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-FFF3		Disk media format bad. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3035 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-FFF4	722	Disk drive problem. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-FFF6	722	Disk detected recoverable error. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-FFFA	722	Temporary disk bus error. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2512-FFFE		Temporary disk bus error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-101	2513	Adapter configuration error. Action: Use MAP 0210: General problem resolution.
2513-710	2513	Permanent adapter failure. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
2513-711	2513	Adapter failure. Action: Go to MAP 0210: General problem resolution
2513-712	2513	Adapter device bus configuration error. Action: PCI-X Dual Channel Ultra320 SCSI Adapter. Use MAP 0050: SCSI Bus Problems. PCI-X Ultra320 SCSI RAID: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-713	2513	Adapter failure. Action: Use MAP 0210: General problem resolution.
2513-714	2513	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
2513-715	2513	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
2513-716	2513 293	PCI bus error detected by EEH. Action: Use MAP 0210: General problem resolution.
2513-717	2513 293	PCI bus error detected by adapter. Action: Use MAP 0210: General problem resolution.
2513-718	2513 293	Temporary PCI bus error detected by adapter Action: Use MAP 0210: General problem resolution.
2513-719		Device bus termination power lost or not detected Action: PCI-X Dual Channel Ultra320 SCSI Adapter. Use MAP 0050: SCSI Bus Problems. PCI-X Ultra320 SCSI RAID: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-720		Adapter device bus configuration error. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, Use to MAP 0050: SCSI Bus Problems. For a PCI-X Ultra320 SCSI RAID adapter, use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-721		Temporary adapter detected device bus failure. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, Use to MAP 0050: SCSI Bus Problems. For a PCI-X Ultra320 SCSI RAID adapter, use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-722	2513	Device bus interface problem. Action: Use MAP 0210: General problem resolution.
2513-723		Device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems
2513-724	2513	Temporary device bus interface problem. Action: Use MAP 0210: General problem resolution.
2513-725		Temporary device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems
2513-102E	722	Out of alternate disk storage for storage. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

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Service Request Number	Failing Function Codes	Description and Action
2513-3002	722	Addressed device failed to respond to selection. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-3010	722	Disk returned wrong response to adapter. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-3020		Storage subsystem configuration error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-3100		Adapter detected device bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-3101		Adapter detected device bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-3109		Adapter timed out a disk command. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-3110		Disk bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-7001	722	Temporary disk data error. Action: Use MAP 0210: General Problem Resolution If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-8008	2526 293	Permanent cache battery pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i>
2513-8009	2526 293	Impending cache battery pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9000		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9001		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9002		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9008		Controller does not support function expected for one or more disks. Action: Use MAP 3030 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9010		Cache data associated with attached disks cannot be found. Action: Use MAP 3020 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

Service Request Number	Failing Function Codes	Description and Action
2513-9011		Cache data belongs to disks other than those attached. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9020		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9021		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9022		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9023		One or more disk array members are not at the required physical locations. Action: Use MAP 3012 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9024		The physical location of disk array members conflict with another disk array. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9025		An incompatible disk is installed at a degraded disk location in the disk array. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9026		A previously degraded disk in the disk array was not found at the required physical location. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9027		A disk array is or would become degraded and the parity data is out of synchronization. Action: Use MAP 3013 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9028		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9029		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9030		The disk array is degraded due to a missing or failed disk. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9031		Automatic reconstruction initiated for the disk array. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9041		Background disk array parity checking detected and corrected errors. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

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Service Request Number	Failing Function Codes	Description and Action
2513-9050		Required cache data cannot be located for one or more disks. Action: Use MAP 3031 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9051		Cache data exists for more than one missing or failed disks. Action: Use MAP 3032 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9052		Cache data exists for one or more modified disks. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9054		RAID controller resources are not available due to previous problems. Action: Use MAP 3021 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9060		One or more disk pairs are missing from a RAID-10 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9061		One or more disk pairs are missing from a RAID-10 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9062		One or more disk pairs are missing from a RAID-0 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9063		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9073		Multiple controllers connected in an invalid configuration. Action: Use MAP 3040 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9074		Multiple controllers connected in an invalid configuration. Action: Use MAP 3041 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9081		Controller detected a device error during an internal media recovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9082		Controller detected a device error during an internal media recovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9090		Disk has been modified after last known status. Action: Use MAP 3033 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9091		Incorrect disk configuration change has been detected. Action: Use MAP 3033 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9092		Disk requires formatting before use. Action: Use MAP 3034 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

Service Request Number	Failing Function Codes	Description and Action
2513-9200		Identify disk to be replaced. Action: Use MAP 3036 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-9032		Disk Array is degraded due to missing failed disk. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i>
2513-9042		Background Disk Array parity checking detected and corrected errors on specified disk. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i>
2513-FFF3		Disk media format bad. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3035 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-FFF4	722	Disk drive problem. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-FFF6	722	Disk detected recoverable error. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-FFFA	722	Temporary disk bus error. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2513-FFFE		Temporary disk bus error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-101	2514	Adapter configuration error. Action: Use MAP 0210: General problem resolution.
2514-710	2514	Permanent adapter failure. Action: Use MAP 0210: General problem resolution.
2514-711	2514	Adapter failure. Action: Go to MAP 0210: General problem resolution
2514-712	2514	Adapter device bus configuration error. Action: PCI-X Dual Channel Ultra320 SCSI Adapter. Use MAP 0050: SCSI Bus Problems. PCI-X Ultra320 SCSI RAID: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-713	2514	Adapter failure. Action: Use MAP 0210: General problem resolution.
2514-714	2514	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
2514-715	2514	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
2514-716	2514 293	PCI bus error detected by EEH. Action: Use MAP 0210: General problem resolution.
2514-717	2514 293	PCI bus error detected by adapter. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
2514-718	2514 293	Temporary PCI bus error detected by adapter Action: Use MAP 0210: General problem resolution.
2514-719		Device bus termination power lost or not detected Action: PCI-X Dual Channel Ultra320 SCSI Adapter. Use MAP 0050: SCSI Bus Problems. PCI-X Ultra320 SCSI RAID: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-720		Adapter device bus configuration error. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, Use to MAP 0050: SCSI Bus Problems. For a PCI-X Ultra320 SCSI RAID adapter, use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-721		Temporary adapter detected device bus failure. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, Use to MAP 0050: SCSI Bus Problems. For a PCI-X Ultra320 SCSI RAID adapter, use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-722	2514	Device bus interface problem. Action: Use MAP 0210: General problem resolution.
2514-723		Device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems
2514-724	2514	Temporary device bus interface problem. Action: Use MAP 0210: General problem resolution.
2514-725		Temporary device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems
2514-102E	722	Out of alternate disk storage for storage. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-3002	722	Addressed device failed to respond to selection. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-3010	722	Disk returned wrong response to adapter. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-3020		Storage subsystem configuration error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-3100		Adapter detected device bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-3101		Adapter detected device bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-3109		Adapter timed out a disk command. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

Service Request Number	Failing Function Codes	Description and Action
2514-3110		Disk bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-7001	722	Temporary disk data error. Action: Use MAP 0210: General Problem Resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-8008	2526 293	Permanent cache battery pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-8009	2526 293	Impending cache battery pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9000		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9001		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9002		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9008		Controller does not support function expected for one or more disks. Action: Use MAP 3030 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9010		Cache data associated with attached disks cannot be found. Action: Use MAP 3020 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9011		Cache data belongs to disks other than those attached. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9020		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9021		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9022		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9023		One or more disk array members are not at the required physical locations. Action: Use MAP 3012 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9024		The physical location of disk array members conflict with another disk array. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

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Service Request Number	Failing Function Codes	Description and Action
2514-9025		An incompatible disk is installed at a degraded disk location in the disk array. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9026		A previously degraded disk in the disk array was not found at the required physical location. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9027		A disk array is or would become degraded and the parity data is out of synchronization. Action: Use MAP 3013 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9028		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9029		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9030		The disk array is degraded due to a missing or failed disk. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9031		Automatic reconstruction initiated for the disk array. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9041		Background disk array parity checking detected and corrected errors. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9050		Required cache data cannot be located for one or more disks. Action: Use MAP 3031 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9051		Cache data exists for more than one missing or failed disks. Action: Use MAP 3032 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9052		Cache data exists for one or more modified disks. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9054		RAID controller resources are not available due to previous problems. Action: Use MAP 3021 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9060		One or more disk pairs are missing from a RAID-10 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9061		One or more disk pairs are missing from a RAID-10 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

Service Request Number	Failing Function Codes	Description and Action
2514-9062		One or more disk pairs are missing from a RAID-0 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9063		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9073		Multiple controllers connected in an invalid configuration. Action: Use MAP 3040 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i>
2514-9074		Multiple controllers connected in an invalid configuration. Action: Use MAP 3041 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i>
2514-9081		Controller detected a device error during an internal media recovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9082		Controller detected a device error during an internal media recovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9090		Disk has been modified after last known status. Action: Use MAP 3033 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9091		Incorrect disk configuration change has been detected. Action: Use MAP 3033 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9092		Disk requires formatting before use. Action: Use MAP 3034 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9200		Identify disk to be replaced. Action: Use MAP 3036 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-9032		Disk Array is degraded due to missing failed disk. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i>
2514-9042		Background Disk Array parity checking detected and corrected errors on specified disk. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i>
2514-FFF3		Disk media format bad. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3035 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-FFF4	722	Disk drive problem. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

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Service Request Number	Failing Function Codes	Description and Action
2514-FFF6	722	Disk detected recoverable error. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-FFFA	722	Temporary disk bus error. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2514-FFFE		Temporary disk bus error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2520-101	221	Enhanced error handling failure on the bus. Action: Use MAP 0210: General problem resolution.
2520-102	293	Enhanced error handling failure on a PCI-PCI Bridge. Action: Use MAP 0210: General problem resolution.
2520-103	2520 221	Enhanced error handling failure on the adapter. Action: Use MAP 0210: General problem resolution.
2520-212	2520	FIFO empty bit set. Action: Use MAP 0210: General problem resolution.
2520-213	2520	FIFO empty bit clear. Action: Use MAP 0210: General problem resolution.
2520-214	2520	FIFO full bit set. Action: Use MAP 0210: General problem resolution.
2520-215	2520	FIFO full bit clear. Action: Use MAP 0210: General problem resolution.
2520-216	2520	FIFO data miscompare. Action: Use MAP 0210: General problem resolution.
2520-217	2520	SCSI FIFO data miscompare. Action: Use MAP 0210: General problem resolution.
2520-218	2520	SCSI FIFO underflow. Action: Use MAP 0210: General problem resolution.
2520-219		SCSI parity error. Action: Go to MAP 0050: SCSI Bus Problems.
2520-220	2520	SCSI FIFO flags error. Action: Use MAP 0210: General problem resolution.
2520-221	2520 293	Miscompare during the write/read of configuration register. Action: Use MAP 0210: General problem resolution.
2520-222	2520	Error during the write/read of the memory register. Action: Use MAP 0210: General problem resolution.
2520-223		Miscompare during the write/read of the memory I/O register. Action: Use MAP 0210: General problem resolution.
2520-224	2520 221	SCSI configuration read or write error. Action: Use MAP 0210: General problem resolution.
2520-226	2520	SCSI wrap or PTC error. Action: Use MAP 0210: General problem resolution.
2520-227	2520 221	SCSI adapter interrupt test failure. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
2520-230		Arbitration test failed. Action: Go to MAP 0050: SCSI Bus Problems.
2520-231		Function could not complete. Action: Go to MAP 0050: SCSI Bus Problems.
2520-232		SCSI bus data miscompare. Action: Go to MAP 0050: SCSI Bus Problems.
2520-240		No terminal power. Action: Go to MAP 0050: SCSI Bus Problems.
2520-242		SCSI bus error. Action: Go to MAP 0050: SCSI Bus Problems.
2520-301	2520 221	Configuration open failed for parent bus. Action: Use MAP 0210: General problem resolution.
2520-801		Error Log Analysis indicates a terminator problem. Action: Run diagnostic on the adapter in System Verification Mode. If an SRN is reported, use the SRN to resolve the problem. If a SRN is not reported, use the SCSI service hints to resolve the problem.
2520-802		Error Log Analysis indicates that multiple attempts to reset the SCSI bus have timed out. Action: Run diagnostic on the adapter in System Verification Mode. If an SRN is reported, use the SRN to resolve the problem. If a SRN is not reported, use the SCSI service hints to resolve the problem.
2520-803		Error Log Analysis indicates that multiple SCSI bus errors have occurred. Action: Run diagnostic on the adapter and the devices in System Verification Mode. If an SRN is reported, use the SRN to resolve the problem. If a SRN is not reported, use the SCSI service hints to resolve the problem.
2521-101	221	Enhanced error handling failure on the bus. Action: Use MAP 0210: General problem resolution.
2521-102	293	Enhanced error handling failure on a PCI-PCI Bridge. Action: Use MAP 0210: General problem resolution.
2521-103	2521 221	Enhanced error handling failure on the adapter. Action: Use MAP 0210: General problem resolution.
2521-227	2521 221	SCSI adapter test failure. Action: Use MAP 0210: General problem resolution.
2521-701	2521	Error log analysis indicates a PCI SCSI adapter failure. Action: Use MAP 0210: General Problem Resolution.
2521-801		Error Log Analysis indicates a terminator problem. Action: Run diagnostic on the adapter in System Verification Mode. If an SRN is reported, use the SRN to resolve the problem. If a SRN is not reported, use the SCSI service hints to resolve the problem.
2521-802		Error Log Analysis indicates that multiple attempts to reset the SCSI bus have timed out. Action: Run diagnostic on the adapter in System Verification Mode. If an SRN is reported, use the SRN to resolve the problem. If a SRN is not reported, use the SCSI service hints to resolve the problem.

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Service Request Number	Failing Function Codes	Description and Action
2521-803		Error Log Analysis indicates that multiple SCSI bus errors have occurred. Action: Run diagnostic on the adapter and the devices in System Verification Mode. If an SRN is reported, use the SRN to resolve the problem. If a SRN is not reported, use the SCSI service hints to resolve the problem.
2522-101	2522	Adapter configuration error. Action: Use MAP 0210: General problem resolution.
2522-710	2522	Permanent adapter failure. Action: Use MAP 0210: General problem resolution.
2522-711	2522	Adapter failure. Action: Go to MAP 0210: General problem resolution
2522-712	2522	Adapter device bus configuration error. Action: PCI-X Dual Channel Ultra320 SCSI Adapter. Use MAP 0050: SCSI Bus Problems. PCI-X Ultra320 SCSI RAID: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-713	2522	Adapter failure. Action: Use MAP 0210: General problem resolution.
2522-714	2522	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
2522-715	2522	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
2522-716	2522 293	PCI bus error detected by EEH. Action: Use MAP 0210: General problem resolution.
2522-717	2522 293	PCI bus error detected by adapter. Action: Use MAP 0210: General problem resolution.
2522-718	2522 293	Temporary PCI bus error detected by adapter Action: Use MAP 0210: General problem resolution.
2522-719		Device bus termination power lost or not detected Action: PCI-X Dual Channel Ultra320 SCSI Adapter. Use MAP 0050: SCSI Bus Problems. PCI-X Ultra320 SCSI RAID: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-720		Adapter device bus configuration error. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, Use to MAP 0050: SCSI Bus Problems. For a PCI-X Ultra320 SCSI RAID adapter, use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-721		Temporary adapter detected device bus failure. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, Use to MAP 0050: SCSI Bus Problems. For a PCI-X Ultra320 SCSI RAID adapter, use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-722	2522	Device bus interface problem. Action: Use MAP 0210: General problem resolution.
2522-723		Device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems

Service Request Number	Failing Function Codes	Description and Action
2522-724	2522	Temporary device bus interface problem. Action: Use MAP 0210: General problem resolution.
2522-725		Temporary device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems
2522-102E	722	Out of alternate disk storage for storage. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-3002	722	Addressed device failed to respond to selection. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-3010	722	Disk returned wrong response to adapter. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-3020		Storage subsystem configuration error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-3100		Adapter detected device bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-3101		Adapter detected device bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-3109		Adapter timed out a disk command. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-3110		Disk bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-7001	722	Temporary disk data error. Action: Use MAP 0210: General Problem Resolution If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-8008	2526 293	Permanent cache battery pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-8009	2526 293	Impending cache battery pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9000		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9001		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9002		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

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Service Request Number	Failing Function Codes	Description and Action
2522-9008		Controller does not support function expected for one or more disks. Action: Use MAP 3030 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9010		Cache data associated with attached disks cannot be found. Action: Use MAP 3020 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9011		Cache data belongs to disks other than those attached. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9020		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9021		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9022		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9023		One or more disk array members are not at the required physical locations. Action: Use MAP 3012 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9024		The physical location of disk array members conflict with another disk array. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9025		An incompatible disk is installed at a degraded disk location in the disk array. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9026		A previously degraded disk in the disk array was not found at the required physical location. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9027		A disk array is or would become degraded and the parity data is out of synchronization. Action: Use MAP 3013 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9028		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9029		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9030		The disk array is degraded due to a missing or failed disk. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

Service Request Number	Failing Function Codes	Description and Action
2522-9031		Automatic reconstruction initiated for the disk array. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9041		Background disk array parity checking detected and corrected errors. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9050		Required cache data cannot be located for one or more disks. Action: Use MAP 3031 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9051		Cache data exists for more than one missing or failed disks. Action: Use MAP 3032 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9052		Cache data exists for one or more modified disks. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9054		RAID controller resources are not available due to previous problems. Action: Use MAP 3021 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9060		One or more disk pairs are missing from a RAID-10 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9061		One or more disk pairs are missing from a RAID-10 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9062		One or more disk pairs are missing from a RAID-0 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9063		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9073		Multiple controllers connected in an invalid configuration. Action: Use MAP 3040 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9074		Multiple controllers connected in an invalid configuration. Action: Use MAP 3041 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9081		Controller detected a device error during an internal media recovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9082		Controller detected a device error during an internal media recovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9090		Disk has been modified after last known status. Action: Use MAP 3033 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

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Service Request Number	Failing Function Codes	Description and Action
2522-9091		Incorrect disk configuration change has been detected. Action: Use MAP 3033 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9092		Disk requires formatting before use. Action: Use MAP 3034 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9200		Identify disk to be replaced. Action: Use MAP 3036 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9032		Disk Array is degraded due to missing failed disk. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-9042		Background Disk Array parity checking detected and corrected errors on specified disk. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-FFF3		Disk media format bad. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3035 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-FFF4	722	Disk drive problem. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-FFF6	722	Disk detected recoverable error. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-FFFA	722	Temporary disk bus error. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2522-FFFE		Temporary disk bus error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-101	2523	Adapter configuration error. Action: Use MAP 0210: General problem resolution.
2523-710	2523	Permanent adapter failure. Action: Use MAP 0210: General problem resolution.
2523-711	2523	Adapter failure. Action: Go to MAP 0210: General problem resolution.
2523-712	2523	Adapter device bus configuration error. Action: PCI-X Dual Channel Ultra320 SCSI Adapter. Use MAP 0050: SCSI Bus Problems. PCI-X Ultra320 SCSI RAID: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-713	2523	Adapter failure. Action: Use MAP 0210: General problem resolution.
2523-714	2523	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
2523-715	2523	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
2523-716	2523 293	PCI bus error detected by EEH. Action: Use MAP 0210: General problem resolution.
2523-717	2523 293	PCI bus error detected by adapter. Action: Use MAP 0210: General problem resolution.
2523-718	2523 293	Temporary PCI bus error detected by adapter Action: Use MAP 0210: General problem resolution.
2523-719		Device bus termination power lost or not detected Action: PCI-X Dual Channel Ultra320 SCSI Adapter. Use MAP 0050: SCSI Bus Problems. PCI-X Ultra320 SCSI RAID: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-720		Adapter device bus configuration error. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, Use to MAP 0050: SCSI Bus Problems. For a PCI-X Ultra320 SCSI RAID adapter, use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-721		Temporary adapter detected device bus failure. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, Use to MAP 0050: SCSI Bus Problems. For a PCI-X Ultra320 SCSI RAID adapter, use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-722	2523	Device bus interface problem. Action: Use MAP 0210: General problem resolution.
2523-723		Device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems
2523-724	2523	Temporary device bus interface problem. Action: Use MAP 0210: General problem resolution.
2523-725		Temporary device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems
2523-102E	722	Out of alternate disk storage for storage. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-3002	722	Addressed device failed to respond to selection. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-3010	722	Disk returned wrong response to adapter. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-3020		Storage subsystem configuration error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

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Service Request Number	Failing Function Codes	Description and Action
2523-3100		Adapter detected device bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-3101		Adapter detected device bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-3109		Adapter timed out a disk command. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-3110		Disk bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-7001	722	Temporary disk data error. Action: Use MAP 0210: General Problem Resolution If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-8008	2526 293	Permanent cache battery pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-8009	2526 293	Impending cache battery pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9000		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9001		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9002		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9008		Controller does not support function expected for one or more disks. Action: Use MAP 3030 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9010		Cache data associated with attached disks cannot be found. Action: Use MAP 3020 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9011		Cache data belongs to disks other than those attached. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9020		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9021		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9022		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

Service Request Number	Failing Function Codes	Description and Action
2523-9023		One or more disk array members are not at the required physical locations. Action: Use MAP 3012 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9024		The physical location of disk array members conflict with another disk array. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9025		An incompatible disk is installed at a degraded disk location in the disk array. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9026		A previously degraded disk in the disk array was not found at the required physical location. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9027		A disk array is or would become degraded and the parity data is out of synchronization. Action: Use MAP 3013 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9028		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9029		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9030		The disk array is degraded due to a missing or failed disk. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9031		Automatic reconstruction initiated for the disk array. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9041		Background disk array parity checking detected and corrected errors. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9050		Required cache data cannot be located for one or more disks. Action: Use MAP 3031 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9051		Cache data exists for more than one missing or failed disks. Action: Use MAP 3032 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9052		Cache data exists for one or more modified disks. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9054		RAID controller resources are not available due to previous problems. Action: Use MAP 3021 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

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Service Request Number	Failing Function Codes	Description and Action
2523-9060		One or more disk pairs are missing from a RAID-10 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9061		One or more disk pairs are missing from a RAID-10 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9062		One or more disk pairs are missing from a RAID-0 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9063		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9073		Multiple controllers connected in an invalid configuration. Action: Use MAP 3040 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9074		Multiple controllers connected in an invalid configuration. Action: Use MAP 3041 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9081		Controller detected a device error during an internal media recovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9082		Controller detected a device error during an internal media recovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9090		Disk has been modified after last known status. Action: Use MAP 3033 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9091		Incorrect disk configuration change has been detected. Action: Use MAP 3033 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9092		Disk requires formatting before use. Action: Use MAP 3034 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9200		Identify disk to be replaced. Action: Use MAP 3036 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9032		Disk Array is degraded due to missing failed disk. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9042		Background Disk Array parity checking detected and corrected errors on specified disk. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-FFF3		Disk media format bad. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3035 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

Service Request Number	Failing Function Codes	Description and Action
2523-FFF4	722	Disk drive problem. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-FFF6	722	Disk detected recoverable error. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-FFFA	722	Temporary disk bus error. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-FFFE		Temporary disk bus error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2524-101	2524	Adapter configuration error. Action: Use MAP 0210: General problem resolution.
2524-701	2524	Error Log Analysis indicates adapter hardware error. Action: Use MAP 0210: General Problem Resolution.
2524-702		Error Log Analysis indicates SCSI device error. Action: Use MAP 0050: SCSI Bus Problems.
2524-703	2524 221	Error Log Analysis indicates hardware system error due to EEH reset problem. Action: Use MAP 0210: General Problem Resolution.
2524-704	2524 221	Error Log Analysis indicates hardware system error from EEH event. Action: Use MAP 0210: General Problem Resolution.
2524-705	2524 221	Error Log Analysis indicates PCI bus error. Action: Use MAP 0210: General Problem Resolution.
2524-706	2524	Error Log Analysis indicates adapter hardware error. Action: Use MAP 0210: General Problem Resolution.
2524-707	2524 221	Error Log Analysis indicates PCI bus error. Action: Use MAP 0210: General Problem Resolution.
2524-708	2524	Error Log Analysis indicates adapter register timeout error. Action: Use MAP 0210: General Problem Resolution.
2527-101	2527	Adapter configuration error. Action: Use MAP 0210: General Problem Resolution.
2527-710	2527	Permanent adapter failure. Action: Use MAP 0210: General Problem Resolution.
2527-711	2527	Adapter failure. Action: Go to MAP 0210: General problem resolution.
2527-712	2527	Adapter device bus configuration error. Action: PCI-X Dual Channel Ultra320 SCSI Adapter. Use MAP 0050: SCSI Bus Problems. PCI-X Ultra320 SCSI RAID: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-713	2527	Adapter failure. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
2527-714	2527	Temporary adapter failure. Action: Use MAP 0210: General Problem Resolution.
2527-715	2527	Temporary adapter failure. Action: Use MAP 0210: General Problem Resolution.
2527-716	2527 293	PCI bus error detected by EEH. Action: Use MAP 0210: General Problem Resolution.
2527-717	2527 293	PCI bus error detected by adapter. Action: Use MAP 0210: General Problem Resolution.
2527-718	2527 293	Temporary PCI bus error detected by adapter Action: Use MAP 0210: General problem resolution.
2527-719		Device bus termination power lost or not detected Action: PCI-X Dual Channel Ultra320 SCSI Adapter. Use MAP 0050: SCSI Bus Problems. PCI-X Ultra320 SCSI RAID: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-720		Adapter device bus configuration error. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, Use to MAP 0050: SCSI Bus Problems. For a PCI-X Ultra320 SCSI RAID adapter, use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-721		Temporary adapter detected device bus failure. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, Use to MAP 0050: SCSI Bus Problems. For a PCI-X Ultra320 SCSI RAID adapter, use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-722	2527	Device bus interface problem. Action: Use MAP 0210: General problem resolution.
2527-723		Device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems
2527-724	2527	Temporary device bus interface problem. Action: Use MAP 0210: General problem resolution.
2527-725		Temporary device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems
2527-102E	722	Out of alternate disk storage for storage. Action: Use MAP 0210: General Problem Resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-3002	722	Addressed device failed to respond to selection. Action: Use MAP 0210: General Problem Resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-3010	722	Disk returned wrong response to adapter. Action: Use MAP 0210: General Problem Resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-3020	2527	Storage subsystem configuration error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

Service Request Number	Failing Function Codes	Description and Action
2527-3100	2527	Adapter detected device bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-3101	2527	Adapter detected device bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-3109	2527	Adapter timed out a disk command. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-3110	2527	Disk bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-7001	722	Description: Temporary disk data error. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-8008	2526 293	Permanent Cache Battery Pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-8009	2526 293	Impending Cache Battery Pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9000		Controller detected device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9001		Controller detected device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9002		Controller detected device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9008		Controller does not support function expected for one or more disks. Action: Use MAP 3030 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9010		Cache data associated with attached disks cannot be found. Action: Use MAP 3020 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9011		Cache data belongs to disks other than those attached. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9020		Description: Two or more disks are missing from a RAID-5 Disk Array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9021		Two or more disks are missing from a RAID-5 Disk Array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

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Service Request Number	Failing Function Codes	Description and Action
2527-9022		Two or more disks are missing from a RAID-5 Disk Array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9023		Description: One or more Disk Array members are not at required physical locations. Action: Use MAP 3012 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9024		Physical location of Disk Array members conflict with another Disk Array. Action: Use map 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9025		Incompatible disk installed at degraded disk location in Disk Array. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9026		Previously degraded disk in Disk Array not found at required physical location. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9027		Description: Disk Array is or would become degraded and parity data is out of synchronization. Action: Use MAP 3013 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9028		Maximum number of functional Disk Arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9029		Maximum number of functional Disk Array disks has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9030		Disk Array is degraded due to missing/failed disk. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9031		Automatic reconstruction initiated for Disk Array. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9032		Disk Array is degraded due to missing failed disk. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9041		Background Disk Array parity checking detected and corrected errors. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9042		Background Disk Array parity checking detected and corrected errors on specified disk. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9050		Required cache data can not be located for one or more disks. Action: Use MAP 3031 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

Service Request Number	Failing Function Codes	Description and Action
2527-9051		Cache data exists for one or more missing/failed disks. Action: Use MAP 3032 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9052		Description: Cache data exists for one or more modified disks. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9054		RAID controller resources not available due to previous problems. Action: Use MAP 3021 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9060		Description: One or more disk pairs are missing from a RAID-10 Disk Array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9061		One or more disks are missing from a RAID-0 Disk Array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9062		One or more disks are missing from a RAID-0 Disk Array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9063		Maximum number of functional Disk Arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9073		Multiple controllers connected in an invalid configuration. Action: Use MAP 3040 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9074		Multiple controllers connected in an invalid configuration. Action: Use MAP 3041 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9081		Controller detected device error during internal media recovery. Action: Use map 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9082		Controller detected device error during internal media recovery. Action: Use map 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9090		Disk has been modified after last known status. Action: Use MAP 3033 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9091		Incorrect disk configuration change has been detected. Action: Use map 3033 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9092		Description: Disk requires Format before use. Action: Use MAP 3034 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9200		Identify disk to be replaced. Action: Use MAP 3036 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-FFF3		Disk media format bad. Action: Use MAP 3035 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

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Service Request Number	Failing Function Codes	Description and Action
2527-FFF4	722	Description: Disk drive problem. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-FFF6	722	Description: Disk detected recoverable error. Action: Use MAP 0210: General problem resolution. If the problem persists, use map 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-FFFA		Temporary disk error. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-FFFE	722	Temporary disk bus error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-101	2528	Adapter configuration error. Action: Use MAP 0210: General problem resolution.
2528-710	2528	Permanent adapter failure. Action: Use MAP 0210: General problem resolution.
2528-711	2528	Adapter failure. Action: Go to MAP 0210: General problem resolution
2528-712	2528	Adapter device bus configuration error. Action: PCI-X Dual Channel Ultra320 SCSI Adapter. Use MAP 0050: SCSI Bus Problems. PCI-X Ultra320 SCSI RAID: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-713	2528	Adapter failure. Action: Use MAP 0210: General problem resolution.
2528-714	2528	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
2528-715	2528	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
2528-716	2528 293	PCI bus error detected by EEH. Action: Use MAP 0210: General problem resolution.
2528-717	2528 293	PCI bus error detected by adapter. Action: Use MAP 0210: General problem resolution.
2528-718	2528 293	Temporary PCI bus error detected by adapter Action: Use MAP 0210: General problem resolution.
2528-719		Device bus termination power lost or not detected Action: PCI-X Dual Channel Ultra320 SCSI Adapter. Use MAP 0050: SCSI Bus Problems. PCI-X Ultra320 SCSI RAID: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-720		Adapter device bus configuration error. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, Use to MAP 0050: SCSI Bus Problems. For a PCI-X Ultra320 SCSI RAID adapter, use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

Service Request Number	Failing Function Codes	Description and Action
2528-721		Temporary adapter detected device bus failure. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, Use to MAP 0050: SCSI Bus Problems. For a PCI-X Ultra320 SCSI RAID adapter, use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-722	2528	Device bus interface problem. Action: Use MAP 0210: General problem resolution.
2528-723		Device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems
2528-724	2528	Temporary device bus interface problem. Action: Use MAP 0210: General problem resolution.
2528-725		Temporary device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems
2528-102E	722	Out of alternate disk storage for storage. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-3002	722	Addressed device failed to respond to selection. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-3010	722	Disk returned wrong response to adapter. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-3020		Storage subsystem configuration error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-3100		Adapter detected device bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-3101		Adapter detected device bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-3109		Adapter timed out a disk command. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-3110		Disk bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-7001	722	Temporary disk data error. Action: Use MAP 0210: General Problem Resolution If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-8008	2526 293	Permanent cache battery pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-8009	2526 293	Impending cache battery pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

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Service Request Number	Failing Function Codes	Description and Action
2528-9000		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9001		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9002		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9008		Controller does not support function expected for one or more disks. Action: Use MAP 3030 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9010		Cache data associated with attached disks cannot be found. Action: Use MAP 3020 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9011		Cache data belongs to disks other than those attached. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9020		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9021		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9022		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9023		One or more disk array members are not at the required physical locations. Action: Use MAP 3012 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9024		The physical location of disk array members conflict with another disk array. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9025		An incompatible disk is installed at a degraded disk location in the disk array. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9026		A previously degraded disk in the disk array was not found at the required physical location. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9027		A disk array is or would become degraded and the parity data is out of synchronization. Action: Use MAP 3013 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

Service Request Number	Failing Function Codes	Description and Action
2528-9028		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9029		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9030		The disk array is degraded due to a missing or failed disk. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9031		Automatic reconstruction initiated for the disk array. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9041		Background disk array parity checking detected and corrected errors. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9050		Required cache data cannot be located for one or more disks. Action: Use MAP 3031 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9051		Cache data exists for more than one missing or failed disks. Action: Use MAP 3032 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9052		Cache data exists for one or more modified disks. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9054		RAID controller resources are not available due to previous problems. Action: Use MAP 3021 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9060		One or more disk pairs are missing from a RAID-10 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9061		One or more disk pairs are missing from a RAID-10 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9062		One or more disk pairs are missing from a RAID-0 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9063		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9073		Multiple controllers connected in an invalid configuration. Action: Use MAP 3040 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9074		Multiple controllers connected in an invalid configuration. Action: Use MAP 3041 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

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Service Request Number	Failing Function Codes	Description and Action
2528-9081		Controller detected a device error during an internal media recovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9082		Controller detected a device error during an internal media recovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9090		Disk has been modified after last known status. Action: Use MAP 3033 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9091		Incorrect disk configuration change has been detected. Action: Use MAP 3033 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9092		Disk requires formatting before use. Action: Use MAP 3034 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9200		Identify disk to be replaced. Action: Use MAP 3036 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9032		Disk Array is degraded due to missing failed disk. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-9042		Background Disk Array parity checking detected and corrected errors on specified disk. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-FFF3		Disk media format bad. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3035 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-FFF4	722	Disk drive problem. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-FFF6	722	Disk detected recoverable error. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-FFFA	722	Temporary disk bus error. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2528-FFFE		Temporary disk bus error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-101	2529	Adapter configuration error. Action: Use MAP 0210: General problem resolution.
2529-710	2529	Permanent adapter failure. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
2529-711	2529	Adapter failure. Action: Go to MAP 0210: General problem resolution
2529-712	2529	Adapter device bus configuration error. Action: PCI-X Dual Channel Ultra320 SCSI Adapter. Use MAP 0050: SCSI Bus Problems. PCI-X Ultra320 SCSI RAID: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-713	2529	Adapter failure. Action: Use MAP 0210: General problem resolution.
2529-714	2529	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
2529-715	2529	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
2529-716	2529 293	PCI bus error detected by EEH. Action: Use MAP 0210: General problem resolution.
2529-717	2529 293	PCI bus error detected by adapter. Action: Use MAP 0210: General problem resolution.
2529-718	2529 293	Temporary PCI bus error detected by adapter Action: Use MAP 0210: General problem resolution.
2529-719		Device bus termination power lost or not detected Action: PCI-X Dual Channel Ultra320 SCSI Adapter. Use MAP 0050: SCSI Bus Problems. PCI-X Ultra320 SCSI RAID: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-720		Adapter device bus configuration error. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, Use to MAP 0050: SCSI Bus Problems. For a PCI-X Ultra320 SCSI RAID adapter, use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-721		Temporary adapter detected device bus failure. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, Use to MAP 0050: SCSI Bus Problems. For a PCI-X Ultra320 SCSI RAID adapter, use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-722	2529	Device bus interface problem. Action: Use MAP 0210: General problem resolution.
2529-723		Device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems
2529-724	2529	Temporary device bus interface problem. Action: Use MAP 0210: General problem resolution.
2529-725		Temporary device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems
2529-102E	722	Out of alternate disk storage for storage. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

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Service Request Number	Failing Function Codes	Description and Action
2529-3002	722	Addressed device failed to respond to selection. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-3010	722	Disk returned wrong response to adapter. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-3020		Storage subsystem configuration error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-3100		Adapter detected device bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-3101		Adapter detected device bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-3109		Adapter timed out a disk command. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-3110		Disk bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-7001	722	Temporary disk data error. Action: Use MAP 0210: General Problem Resolution If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-8008	2526 293	Permanent cache battery pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-8009	2526 293	Impending cache battery pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9000		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9001		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9002		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9008		Controller does not support function expected for one or more disks. Action: Use MAP 3030 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9010		Cache data associated with attached disks cannot be found. Action: Use MAP 3020 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

Service Request Number	Failing Function Codes	Description and Action
2529-9011		Cache data belongs to disks other than those attached. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9020		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9021		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9022		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9023		One or more disk array members are not at the required physical locations. Action: Use MAP 3012 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9024		The physical location of disk array members conflict with another disk array. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9025		An incompatible disk is installed at a degraded disk location in the disk array. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9026		A previously degraded disk in the disk array was not found at the required physical location. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9027		A disk array is or would become degraded and the parity data is out of synchronization. Action: Use MAP 3013 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9028		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9029		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9030		The disk array is degraded due to a missing or failed disk. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9031		Automatic reconstruction initiated for the disk array. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9041		Background disk array parity checking detected and corrected errors. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

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Service Request Number	Failing Function Codes	Description and Action
2529-9050		Required cache data cannot be located for one or more disks. Action: Use MAP 3031 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9051		Cache data exists for more than one missing or failed disks. Action: Use MAP 3032 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9052		Cache data exists for one or more modified disks. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9054		RAID controller resources are not available due to previous problems. Action: Use MAP 3021 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9060		One or more disk pairs are missing from a RAID-10 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9061		One or more disk pairs are missing from a RAID-10 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9062		One or more disk pairs are missing from a RAID-0 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9063		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9073		Multiple controllers connected in an invalid configuration. Action: Use MAP 3040 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9074		Multiple controllers connected in an invalid configuration. Action: Use MAP 3041 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9081		Controller detected a device error during an internal media recovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9082		Controller detected a device error during an internal media recovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9090		Disk has been modified after last known status. Action: Use MAP 3033 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9091		Incorrect disk configuration change has been detected. Action: Use MAP 3033 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9092		Disk requires formatting before use. Action: Use MAP 3034 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

Service Request Number	Failing Function Codes	Description and Action
2529-9200		Identify disk to be replaced. Action: Use MAP 3036 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-9032		Disk Array is degraded due to missing failed disk. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i>
2529-9042		Background Disk Array parity checking detected and corrected errors on specified disk. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i>
2529-FFF3		Disk media format bad. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3035 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-FFF4	722	Disk drive problem. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-FFF6	722	Disk detected recoverable error. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-FFFA	722	Temporary disk bus error. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2529-FFFE		Temporary disk bus error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-101	252B	Adapter configuration error. Action: Use MAP 0210: General problem resolution.
252B-710	252B	Permanent adapter failure. Action: Use MAP 0210: General problem resolution.
252B-711	252B	Adapter failure. Action: Go to MAP 0210: General problem resolution
252B-712	252B	Adapter device bus configuration error. Action: PCI-X Dual Channel Ultra320 SCSI Adapter. Use MAP 0050: SCSI Bus Problems. PCI-X Ultra320 SCSI RAID: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-713	252B	Adapter failure. Action: Use MAP 0210: General problem resolution.
252B-714	252B	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
252B-715	252B	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
252B-716	252B 293	PCI bus error detected by EEH. Action: Use MAP 0210: General problem resolution.
252B-717	252B 293	PCI bus error detected by adapter. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
252B-718	252B 293	Temporary PCI bus error detected by adapter Action: Use MAP 0210: General problem resolution.
252B-719		Device bus termination power lost or not detected Action: PCI-X Dual Channel Ultra320 SCSI Adapter. Use MAP 0050: SCSI Bus Problems. PCI-X Ultra320 SCSI RAID: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-720		Adapter device bus configuration error. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, Use to MAP 0050: SCSI Bus Problems. For a PCI-X Ultra320 SCSI RAID adapter, use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-721		Temporary adapter detected device bus failure. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, Use to MAP 0050: SCSI Bus Problems. For a PCI-X Ultra320 SCSI RAID adapter, use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-722	252B	Device bus interface problem. Action: Use MAP 0210: General problem resolution.
252B-723		Device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems
252B-724	252B	Temporary device bus interface problem. Action: Use MAP 0210: General problem resolution.
252B-725		Temporary device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems
252B-102E	722	Out of alternate disk storage for storage. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-3002	722	Addressed device failed to respond to selection. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-3010	722	Disk returned wrong response to adapter. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-3020		Storage subsystem configuration error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-3100		Adapter detected device bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-3101		Adapter detected device bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-3109		Adapter timed out a disk command. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

Service Request Number	Failing Function Codes	Description and Action
252B-3110		Disk bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-7001	722	Temporary disk data error. Action: Use MAP 0210: General Problem Resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-8008	2526 293	Permanent cache battery pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-8009	2526 293	Impending cache battery pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9000		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9001		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9002		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9008		Controller does not support function expected for one or more disks. Action: Use MAP 3030 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9010		Cache data associated with attached disks cannot be found. Action: Use MAP 3020 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9011		Cache data belongs to disks other than those attached. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9020		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9021		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9022		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9023		One or more disk array members are not at the required physical locations. Action: Use MAP 3012 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9024		The physical location of disk array members conflict with another disk array. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

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Service Request Number	Failing Function Codes	Description and Action
252B-9025		An incompatible disk is installed at a degraded disk location in the disk array. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9026		A previously degraded disk in the disk array was not found at the required physical location. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9027		A disk array is or would become degraded and the parity data is out of synchronization. Action: Use MAP 3013 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9028		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9029		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9030		The disk array is degraded due to a missing or failed disk. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9031		Automatic reconstruction initiated for the disk array. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9041		Background disk array parity checking detected and corrected errors. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9050		Required cache data cannot be located for one or more disks. Action: Use MAP 3031 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9051		Cache data exists for more than one missing or failed disks. Action: Use MAP 3032 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9052		Cache data exists for one or more modified disks. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9054		RAID controller resources are not available due to previous problems. Action: Use MAP 3021 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9060		One or more disk pairs are missing from a RAID-10 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9061		One or more disk pairs are missing from a RAID-10 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

Service Request Number	Failing Function Codes	Description and Action
252B-9062		One or more disk pairs are missing from a RAID-0 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9063		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9073		Multiple controllers connected in an invalid configuration. Action: Use MAP 3040 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i>
252B-9074		Multiple controllers connected in an invalid configuration. Action: Use MAP 3041 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i>
252B-9081		Controller detected a device error during an internal media recovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9082		Controller detected a device error during an internal media recovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9090		Disk has been modified after last known status. Action: Use MAP 3033 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9091		Incorrect disk configuration change has been detected. Action: Use MAP 3033 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9092		Disk requires formatting before use. Action: Use MAP 3034 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9200		Identify disk to be replaced. Action: Use MAP 3036 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-9032		Disk Array is degraded due to missing failed disk. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i>
252B-9042		Background Disk Array parity checking detected and corrected errors on specified disk. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i>
252B-FFF3		Disk media format bad. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3035 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-FFF4	722	Disk drive problem. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

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Service Request Number	Failing Function Codes	Description and Action
252B-FFF6	722	Disk detected recoverable error. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-FFFA	722	Temporary disk bus error. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252B-FFFE		Temporary disk bus error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-101	252D	Adapter configuration error. Action: Use MAP 0210: General problem resolution.
252D-710	252D	Permanent adapter failure. Action: Use MAP 0210: General problem resolution.
252D-711	252D	Adapter failure. Action: Go to MAP 0210: General problem resolution
252D-712	252D	Adapter device bus configuration error. Action: PCI-X Dual Channel Ultra320 SCSI Adapter. Use MAP 0050: SCSI Bus Problems. PCI-X Ultra320 SCSI RAID: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-713	252D	Adapter failure. Action: Use MAP 0210: General problem resolution.
252D-714	252D	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
252D-715	252D	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
252D-716	252D 293	PCI bus error detected by EEH. Action: Use MAP 0210: General problem resolution.
252D-717	252D 293	PCI bus error detected by adapter. Action: Use MAP 0210: General problem resolution.
252D-718	252D 293	Temporary PCI bus error detected by adapter Action: Use MAP 0210: General problem resolution.
252D-719		Device bus termination power lost or not detected Action: PCI-X Dual Channel Ultra320 SCSI Adapter. Use MAP 0050: SCSI Bus Problems. PCI-X Ultra320 SCSI RAID: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-720		Adapter device bus configuration error. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, Use to MAP 0050: SCSI Bus Problems. For a PCI-X Ultra320 SCSI RAID adapter, use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

Service Request Number	Failing Function Codes	Description and Action
252D-721		Temporary adapter detected device bus failure. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, Use to MAP 0050: SCSI Bus Problems. For a PCI-X Ultra320 SCSI RAID adapter, use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-722	252D	Device bus interface problem. Action: Use MAP 0210: General problem resolution.
252D-723		Device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems
252D-724	252D	Temporary device bus interface problem. Action: Use MAP 0210: General problem resolution.
252D-725		Temporary device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems
252D-102E	722	Out of alternate disk storage for storage. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-3002	722	Addressed device failed to respond to selection. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-3010	722	Disk returned wrong response to adapter. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-3020		Storage subsystem configuration error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-3100		Adapter detected device bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-3101		Adapter detected device bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-3109		Adapter timed out a disk command. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-3110		Disk bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-7001	722	Temporary disk data error. Action: Use MAP 0210: General Problem Resolution If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-8008	2526 293	Permanent cache battery pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-8009	2526 293	Impending cache battery pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

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Service Request Number	Failing Function Codes	Description and Action
252D-9000		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9001		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9002		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9008		Controller does not support function expected for one or more disks. Action: Use MAP 3030 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9010		Cache data associated with attached disks cannot be found. Action: Use MAP 3020 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9011		Cache data belongs to disks other than those attached. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9020		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9021		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9022		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9023		One or more disk array members are not at the required physical locations. Action: Use MAP 3012 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9024		The physical location of disk array members conflict with another disk array. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9025		An incompatible disk is installed at a degraded disk location in the disk array. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9026		A previously degraded disk in the disk array was not found at the required physical location. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9027		A disk array is or would become degraded and the parity data is out of synchronization. Action: Use MAP 3013 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

Service Request Number	Failing Function Codes	Description and Action
252D-9028		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9029		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9030		The disk array is degraded due to a missing or failed disk. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9031		Automatic reconstruction initiated for the disk array. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9041		Background disk array parity checking detected and corrected errors. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9050		Required cache data cannot be located for one or more disks. Action: Use MAP 3031 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9051		Cache data exists for more than one missing or failed disks. Action: Use MAP 3032 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9052		Cache data exists for one or more modified disks. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9054		RAID controller resources are not available due to previous problems. Action: Use MAP 3021 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9060		One or more disk pairs are missing from a RAID-10 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9061		One or more disk pairs are missing from a RAID-10 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9062		One or more disk pairs are missing from a RAID-0 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9063		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9073		Multiple controllers connected in an invalid configuration. Action: Use MAP 3040 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9074		Multiple controllers connected in an invalid configuration. Action: Use MAP 3041 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

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Service Request Number	Failing Function Codes	Description and Action
252D-9081		Controller detected a device error during an internal media recovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9082		Controller detected a device error during an internal media recovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9090		Disk has been modified after last known status. Action: Use MAP 3033 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9091		Incorrect disk configuration change has been detected. Action: Use MAP 3033 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9092		Disk requires formatting before use. Action: Use MAP 3034 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9200		Identify disk to be replaced. Action: Use MAP 3036 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9032		Disk Array is degraded due to missing failed disk. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-9042		Background Disk Array parity checking detected and corrected errors on specified disk. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-FFF3		Disk media format bad. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3035 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-FFF4	722	Disk drive problem. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-FFF6	722	Disk detected recoverable error. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-FFFA	722	Temporary disk bus error. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252D-FFFE		Temporary disk bus error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-101	252E	Adapter configuration error. Action: Use MAP 0210: General problem resolution.
252E-710	252E	Permanent adapter failure. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
252E-711	252E	Adapter failure. Action: Go to MAP 0210: General problem resolution
252E-712	252E	Adapter device bus configuration error. Action: PCI-X Dual Channel Ultra320 SCSI Adapter. Use MAP 0050: SCSI Bus Problems. PCI-X Ultra320 SCSI RAID: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-713	252E	Adapter failure. Action: Use MAP 0210: General problem resolution.
252E-714	252E	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
252E-715	252E	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
252E-716	252E 293	PCI bus error detected by EEH. Action: Use MAP 0210: General problem resolution.
252E-717	252E 293	PCI bus error detected by adapter. Action: Use MAP 0210: General problem resolution.
252E-718	252E 293	Temporary PCI bus error detected by adapter Action: Use MAP 0210: General problem resolution.
252E-719		Device bus termination power lost or not detected Action: PCI-X Dual Channel Ultra320 SCSI Adapter. Use MAP 0050: SCSI Bus Problems. PCI-X Ultra320 SCSI RAID: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-720		Adapter device bus configuration error. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, Use to MAP 0050: SCSI Bus Problems. For a PCI-X Ultra320 SCSI RAID adapter, use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-721		Temporary adapter detected device bus failure. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, Use to MAP 0050: SCSI Bus Problems. For a PCI-X Ultra320 SCSI RAID adapter, use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-722	252E	Device bus interface problem. Action: Use MAP 0210: General problem resolution.
252E-723		Device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems
252E-724	252E	Temporary device bus interface problem. Action: Use MAP 0210: General problem resolution.
252E-725		Temporary device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems
252E-102E	722	Out of alternate disk storage for storage. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

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Service Request Number	Failing Function Codes	Description and Action
252E-3002	722	Addressed device failed to respond to selection. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-3010	722	Disk returned wrong response to adapter. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-3020		Storage subsystem configuration error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-3100		Adapter detected device bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-3101		Adapter detected device bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-3109		Adapter timed out a disk command. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-3110		Disk bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-7001	722	Temporary disk data error. Action: Use MAP 0210: General Problem Resolution If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-8008	2526 293	Permanent cache battery pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i>
252E-8009	2526 293	Impending cache battery pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9000		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9001		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9002		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9008		Controller does not support function expected for one or more disks. Action: Use MAP 3030 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9010		Cache data associated with attached disks cannot be found. Action: Use MAP 3020 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

Service Request Number	Failing Function Codes	Description and Action
252E-9011		Cache data belongs to disks other than those attached. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9020		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9021		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9022		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9023		One or more disk array members are not at the required physical locations. Action: Use MAP 3012 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9024		The physical location of disk array members conflict with another disk array. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9025		An incompatible disk is installed at a degraded disk location in the disk array. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9026		A previously degraded disk in the disk array was not found at the required physical location. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9027		A disk array is or would become degraded and the parity data is out of synchronization. Action: Use MAP 3013 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9028		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9029		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9030		The disk array is degraded due to a missing or failed disk. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9031		Automatic reconstruction initiated for the disk array. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9041		Background disk array parity checking detected and corrected errors. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

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Service Request Number	Failing Function Codes	Description and Action
252E-9050		Required cache data cannot be located for one or more disks. Action: Use MAP 3031 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9051		Cache data exists for more than one missing or failed disks. Action: Use MAP 3032 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9052		Cache data exists for one or more modified disks. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9054		RAID controller resources are not available due to previous problems. Action: Use MAP 3021 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9060		One or more disk pairs are missing from a RAID-10 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9061		One or more disk pairs are missing from a RAID-10 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9062		One or more disk pairs are missing from a RAID-0 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9063		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9073		Multiple controllers connected in an invalid configuration. Action: Use MAP 3040 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9074		Multiple controllers connected in an invalid configuration. Action: Use MAP 3041 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9081		Controller detected a device error during an internal media recovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9082		Controller detected a device error during an internal media recovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9090		Disk has been modified after last known status. Action: Use MAP 3033 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9091		Incorrect disk configuration change has been detected. Action: Use MAP 3033 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9092		Disk requires formatting before use. Action: Use MAP 3034 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

Service Request Number	Failing Function Codes	Description and Action
252E-9200		Identify disk to be replaced. Action: Use MAP 3036 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9032		Disk Array is degraded due to missing failed disk. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-9042		Background Disk Array parity checking detected and corrected errors on specified disk. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-FFF3		Disk media format bad. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3035 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-FFF4	722	Disk drive problem. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-FFF6	722	Disk detected recoverable error. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-FFFA	722	Temporary disk bus error. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
252E-FFFFE		Temporary disk bus error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2530-101	221	Enhanced Error Handling failure on bus. Action: Use MAP 0210: General problem resolution.
2530-102	221	Enhanced Error Handling logic failure. Action: Use MAP 0210: General problem resolution.
2530-103	2530	Enhanced Error Handling failure on adapter. Action: Use MAP 0210: General problem resolution.
2530-104	2530	Port command test failure. Action: Use MAP 0210: General problem resolution.
2530-105	2530	CU command test failure. Action: Use MAP 0210: General problem resolution.
2530-106	2530	External wrap test failure. Action: Use MAP 0210: General problem resolution.
2530-107	2530	A non-critical error occurred. Action: Replace the adapter during scheduled maintenance. An encryption authentication problem has been detected.
2530-201	2530 221	EEPROM test failure. Action: Use MAP 0210: General problem resolution.
2530-202	2530 221	Internal wrap test failure. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
2530-701	2530	Error log analysis indicates that this device has failed to initialize due to a self-test failure. Action: Use MAP 0210: General problem resolution.
2530-702	2530	Error log analysis indicates that this device has failed to initialize due to an EEH hardware error. Action: Use MAP 0210: General problem resolution.
2530-703	2530	Error log analysis indicates that this device has failed to initialize due to a problem with the EEPROM on the adapter. Action: Use MAP 0210: General problem resolution.
2530-704	2530 221	Error log analysis indicates that this device has failed to initialize due to EEH errors. Action: Use MAP 0210: General problem resolution.
2531-101	2531	VPD test failure Action: Use MAP 0210: General problem resolution.
2531-102	2531	Flash ROM test Action: Use MAP 0210: General problem resolution.
2531-103	2531	Internal wrap test failure Action: Use MAP 0210: General problem resolution.
2531-104	2531	External wrap test failure. Action: Use MAP 0210: General problem resolution.
2531-105	2531	External wrap test with checksum IP offload failure. Action: Use MAP 0210: General problem resolution.
2531-106	2531	External wrap test with checksum TCP offload failure. Action: Use MAP 0210: General problem resolution.
2531-201	2531 221	Registers test failure Action: Use MAP 0210: General problem resolution.
2531-202	2531 221	Enhanced Error Handling Failure while testing adapter Action: Use MAP 0210: General problem resolution.
2531-203	2531 221	Enhanced Error Handling Failure on bus Action: Use MAP 0210: General problem resolution.
2531-204	cable network	Link test failure, Wrap test ok Action: Use MAP 0210: General problem resolution.
2531-301	2531 cable network	Link test failure without wrap test Action: Use MAP 0210: General problem resolution.
2531-701	2531	Failure to initialize due to a self-test failure Action: Use MAP 0210: General problem resolution.
2531-702	2531	Failure to initialize due to a problem while reading the EEPROM on the adapter Action: Use MAP 0210: General problem resolution.
2531-703	2531	Transmit error due to timeout. Action: Use MAP 0210: General problem resolution.
2532-101	2532	VPD test failure Action: Use MAP 0210: General problem resolution.
2532-102	2532	Flash ROM test Action: Use MAP 0210: General problem resolution.
2532-103	2532	Internal wrap test failure Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
2532-104	2532	External wrap test failure Action: Use MAP 0210: General problem resolution.
2532-105	2532	External wrap test with checksum IP offload failure Action: Use MAP 0210: General problem resolution.
2532-106	2532	External wrap test with checksum TCP offload failure Action: Use MAP 0210: General problem resolution.
2532-201	2532 221	Registers test failure Action: Use MAP 0210: General problem resolution.
2532-202	2532 221	Enhanced Error Handling Failure while testing adapter Action: Use MAP 0210: General problem resolution.
2532-203	2532 221	Enhanced Error Handling Failure on bus Action: Use MAP 0210: General problem resolution.
2532-204	cable network	Link test failure, Wrap test ok Action: Use MAP 0210: General problem resolution.
2532-301	2532 cable network	Link test failure without wrap test Action: Use MAP 0210: General problem resolution.
2532-701	2532	Failure to initialize due to a self-test failure. Action: Use MAP 0210: General problem resolution.
2532-702	2532	Failure to initialize due to a problem while reading the EEPROM on the adapter. Action: Use MAP 0210: General problem resolution.
2532-703	2532	Transmit error due to timeout. Action: Use MAP 0210: General problem resolution.
2533-101	2533	Enhanced Error Handling Failure Action: Use MAP 0210: General problem resolution.
2533-102	2533	Memory Test Failure Action: Use MAP 0210: General problem resolution.
2533-103	2533	CA Memory Test Failure Action: Use MAP 0210: General problem resolution.
2533-104	2533	EEPROM Test Failure Action: Use MAP 0210: General problem resolution.
2533-105	2533	Flash ROM Test Failure Action: Use MAP 0210: General problem resolution.
2533-106	2533	Internal Wrap Test Failure Action: Use MAP 0210: General problem resolution.
2533-107	2533	External Wrap Test Failure Action: Use MAP 0210: General problem resolution.
2533-108	2533	External Wrap with IP Checksum Test Failure Action: Use MAP 0210: General problem resolution.
2533-109	2533	External Wrap with UDP Checksum Test Failure Action: Use MAP 0210: General problem resolution.
2533-110	2533	External Wrap with TCP Checksum Test Failure Action: Use MAP 0210: General problem resolution.
2533-111	241	Network link test failure. (Wrap tests passed. Check ethernet network and cables.) Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
2533-201	2533 221	PCI Configuration I/O Test Failure Action: Use MAP 0210: General problem resolution.
2533-202	241 2533	Network link test failure. (Wrap tests not performed.) Action: Use MAP 0210: General problem resolution.
2533-601	2533	Error log analysis indicates that this adapter has failed due to a hardware error. Action: Use MAP 0210: General problem resolution.
2533-602	2533	Error log analysis indicates that this adapter has failed due to an EEPROM error. Action: Use MAP 0210: General problem resolution.
2533-603	2533	Error log analysis indicates that this adapter has failed due to transmission errors. Action: Use MAP 0210: General problem resolution.
2534-101	2534	Enhanced Error Handling Failure Action: Use MAP 0210: General problem resolution.
2534-102	2534	Memory Test Failure Action: Use MAP 0210: General problem resolution.
2534-103	2534	CA Memory Test Failure Action: Use MAP 0210: General problem resolution.
2534-104	2534	EEPROM Test Failure Action: Use MAP 0210: General problem resolution.
2534-105	2534	Flash ROM Test Failure Action: Use MAP 0210: General problem resolution.
2534-106	2534	Internal Wrap Test Failure Action: Use MAP 0210: General problem resolution.
2534-107	2534	External Wrap Test Failure Action: Use MAP 0210: General problem resolution.
2534-108	2534	External Wrap with IP Checksum Test Failure Action: Use MAP 0210: General problem resolution.
2534-109	2534	External Wrap with UDP Checksum Test Failure Action: Use MAP 0210: General problem resolution.
2534-110	2534	External Wrap with TCP Checksum Test Failure Action: Use MAP 0210: General problem resolution.
2534-111	241	Network link test failure. (Wrap tests passed. Check ethernet network and cables.) Action: Use MAP 0210: General problem resolution.
2534-201	2534 221	PCI Configuration I/O Test Failure Action: Use MAP 0210: General problem resolution.
2534-202	241 2534	Network link test failure. (Wrap tests not performed.) Action: Use MAP 0210: General problem resolution.
2534-601	2534	Error log analysis indicates that this adapter has failed due to a hardware error. Action: Use MAP 0210: General problem resolution.
2534-602	2534	Error log analysis indicates that this adapter has failed due to an EEPROM error. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
2534-603	2534	Error log analysis indicates that this adapter has failed due to transmission errors. Action: Use MAP 0210: General problem resolution.
2535-101	221	Enhanced Error Handling Failure on bus. Action: Use MAP 0210: General problem resolution.
2535-103	2535 221	Enhanced Error Handling Failure while testing adapter. Action: Use MAP 0210: General problem resolution.
2535-104	2535	Internal wrap test failure (10 Mbps). Action: Use MAP 0210: General problem resolution.
2535-105	2535	Internal wrap test failure (100 Mbps). Action: Use MAP 0210: General problem resolution.
2535-106	2535	Internal wrap test failure (1000 Mbps). Action: Use MAP 0210: General problem resolution.
2535-107	2535	External wrap test failure (10 Mbps). Action: Use MAP 0210: General problem resolution.
2535-108	2535	External wrap test failure (100 Mbps). Action: Use MAP 0210: General problem resolution.
2535-201	2535 221	Registers test failure. Action: Use MAP 0210: General problem resolution.
2535-701	2535	Failure to initialize due to a self-test failure. Action: Use MAP 0210: General problem resolution.
2535-702	2535 221	Failure to recover from an EEH event. Action: Use MAP 0210: General problem resolution.
2535-703	2535	Failure to initialize due to a problem while reading the EEPROM on the adapter. Action: Use MAP 0210: General problem resolution.
2535-704	2535 221	Device has attempted error recovery. Action: Use MAP 0210: General problem resolution.
254E-201	254E 221	Adapter configuration error. Action: Use MAP 0210: General problem resolution.
254E-601	254E	Error log analysis indicates adapter failure. Action: Use MAP 0210: General problem resolution.
254E-602	254E	Error log analysis indicates an error attention condition. Action: Use MAP 0210: General problem resolution.
254E-603	254E	Error log analysis indicates that the microcode could not be loaded on the adapter. Action: Use MAP 0210: General problem resolution.
254E-604	254E	Error log analysis indicates a permanent adapter failure. Action: Use MAP 0210: General problem resolution.
254E-605	254E	Error log analysis indicates permanent adapter failure is reported on the other port of this adapter. Action: Use MAP 0210: General problem resolution.
254E-606	254E	Error log analysis indicates adapter failure. Action: Use MAP 0210: General problem resolution.
254E-701	254E 221	Error log analysis indicates permanent adapter failure. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
254E-702	254E 221	Error log analysis indicates permanent adapter failure is reported on the other port of this adapter. Action: Use MAP 0210: General problem resolution.
2550-001	Software C	Software error. Action: Use MAP 0210: General problem resolution.
2550-002	2550 Software	Adapter failure. Action: Use MAP 0210: General problem resolution.
2550-003	2550 227	Adapter failure. Action: Use MAP 0210: General problem resolution.
2550-004	2550 Monitor/ Cable	Adapter or display failure. Action: Use MAP 0210: General problem resolution.
2550-005	2550 227 Monitor/ Cable	Adapter or display failure. Action: Use MAP 0210: General problem resolution.
2551-001	Software 2551	Software error. Action: Use MAP 0210: General problem resolution.
2551-002	2551 Software	Adapter failure. Action: Use MAP 0210: General problem resolution.
2551-003	2551 227	Adapter failure. Action: Use MAP 0210: General problem resolution.
2551-004	2551 Monitor/ Cable	Adapter or display failure. Action: Use MAP 0210: General problem resolution.
2551-005	2551 227 Monitor/ Cable	Adapter or display failure. Action: Use MAP 0210: General problem resolution.
2562-601	2562	Error Log Analysis indicates adapter function failure. Action: Use MAP 0210: General problem resolution.
2564-101		Diagnostics indicates adapter configuration failure. Action: Use MAP 0210: General problem resolution.
2564-601	2564	Error log analysis indicates adapter function failure. Action: Use MAP 0210: General problem resolution.
2564-602	2564	Diagnostics indicates adapter configuration failure. Action: Use MAP 0210: General problem resolution.
2566-101 2566-102	2566 2D02	The diskette-drive selected or deselected failed. Action: Use MAP 0210: General problem resolution.
2566-103 2566-107	2566 2D02	The diskette failed. Action: Use MAP 0210: General problem resolution.
2566-108	2566	The diskette read test failed. Action: Use MAP 0210: General problem resolution.
2566-109 2566-110	2566 2D02	The read/write on the diskette drive failed. Action: Use MAP 0210: General problem resolution.
2566-111 2566-114	2566	A diskette drive test failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
2566-115 2566-121	2566 2D02	The diskette drive test failed. Action: Use MAP 0210: General problem resolution.
2566-124	2566	Unable to configure the device. Action: Use MAP 0210: General problem resolution.
2566-125	2566 2D02	Diagnostics was unable to detect the device. Action: Use MAP 0210: General problem resolution.
2566-601	2566	ELA detected a non-recoverable Hardware failure on diskette drive. Action: Use MAP 0210: General Problem Resolution.
2566-701	2566 2D02	ELA detected a Hardware failure on diskette drive. Action: Use MAP 0210: General Problem Resolution.
2566-702	2566 2D02	ELA detected a communication failure to the diskette drive. Action: Use MAP 0210: General Problem Resolution.
2568-101	2568	Unable to open device driver. Action: Use MAP 0210: General problem resolution.
2568-201	2D02	Unable to configure the adapter. Action: Use MAP 0210: General problem resolution.
2568-202	2568 2D02 Media	Unable to configure the device. Action: Use MAP 0210: General problem resolution.
2568-203	2D02	Unable to open device driver. Action: Use MAP 0210: General problem resolution.
2568-204	Media 2568	The Inquire command failed. Action: Use MAP 0210: General problem resolution.
2568-205	2568 Media	The Read Sense Data command failed. Action: Use MAP 0210: General problem resolution.
2568-206	2568	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
2568-207	Media 2568	A media error was detected Action: Use MAP 0210: General problem resolution.
2568-208	2568 Media	The CD-ROM Play Audio command failed. Action: Use MAP 0210: General problem resolution.
2568-209	2568	No tone during audio test. Action: Use MAP 0210: General problem resolution.
2568-210	2568	The Prevent Media Removal or Allow media removal command failed. Action: Use MAP 0210: General Problem Resolution.
2568-211	2568	CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
2568-212	2568 Media	The Write/Read/Compare Test Failed. Action: Use MAP 0210: General problem resolution.
2568-701	2568	ELA indicates Drive Hardware failure. Action: Use MAP 0210: General problem resolution.
2568-702	2568	ELA indicates Drive Hardware failure. Action: Use MAP 0210: General problem resolution.
2570-101	2570	DES test failed. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
2570-102	2570	RSA test failed. Action: Use MAP 0210: General problem resolution.
2570-103	2570	MAC test failed. Action: Use MAP 0210: General problem resolution.
2570-104	2570	DES and SHA test failed. Action: Use MAP 0210: General problem resolution.
2570-105	2570	DES to SHA test failed. Action: Use MAP 0210: General problem resolution.
2570-106	221	Enhanced Error Handling Circuitry failure. Action: Use MAP 0210: General problem resolution.
2570-107	221	Enhanced Error Handling failure on bus. Action: Use MAP 0210: General problem resolution.
2570-108	221	Enhanced Error Handling failure on adapter. Action: Use MAP 0210: General problem resolution.
2570-201	2570 221	Register test failed. Action: Use MAP 0210: General problem resolution.
2570-601	2570	ELA indicates hardware failure has occurred. Action: Use MAP 0210: General problem resolution.
2570-602	2570	ELA indicates hardware timeout has occurred. Action: Use MAP 0210: General problem resolution.
2570-603	2570	ELA indicates hardware failure and timeout has occurred. Action: Use MAP 0210: General problem resolution.
2571-101	2571	Enhanced Error Handling Failure on Bus Action: Use MAP 0210: General problem resolution.
2571-102	2571	Adapter I/O Register Test Failure Action: Use MAP 0210: General problem resolution.
2571-103	2571	Timer Test Failure Action: Use MAP 0210: General problem resolution.
2571-104	2571	Interrupt Test Failure Action: Use MAP 0210: General problem resolution.
2571-105	2571	Internal Loop Back Test Failure Action: Use MAP 0210: General problem resolution.
2571-106	2571	External Loop Back Test Failure Action: Use MAP 0210: General problem resolution.
2571-201	2571 221	PCI CONfiguration I/O Test Failure Action: Use MAP 0210: General problem resolution.
2571-601	2571	Error log analysis indicates that this device has failed due to an adapter reset failure. Action: Use MAP 0210: General problem resolution.
2571-602	2571	Error log analysis indicates that this device has failed due to a hardware error. Action: Use MAP 0210: General problem resolution.
2580-102	2580	A critical failure has occurred on an undefined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-103	2580	Non-critical failure has occurred on an undefined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.

Service Request Number	Failing Function Codes	Description and Action
2580-104	2580	An unrecoverable failure has occurred on an undefined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-122	152	A critical power supply failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-123	152	A non-critical power supply failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-124	152	An unrecoverable power supply failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-132	166	A critical fan failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-133	166	A non-critical fan failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-134	166 2580	An unrecoverable fan failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-148	166 2580	The enclosure indicates a temperature threshold warning. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-149	166 2580	The enclosure indicates a temperature threshold failure. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-152	2580	A critical repeater card failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-153	2580	A non-critical repeater card failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-154	2580	An unrecoverable repeater card failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-162	2580	A critical VPD module failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-163	2580	A non-critical VPD module failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-164	2580	An unrecoverable VPD module failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-172	2580	A critical enclosure services failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-173	2580	A non-critical enclosure services failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-174	2580	An unrecoverable enclosure services failure has occurred. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-182	2580	A critical failure has occurred on a user defined element. Action: Go to General problem resolution
2580-183	2580	A non-critical failure has occurred on a user defined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-184	2580	An unrecoverable failure has occurred on a user defined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-192	2580	A critical failure has occurred on a user defined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-193	2580	A non-critical failure has occurred on a user defined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.

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Service Request Number	Failing Function Codes	Description and Action
2580-194	2580	An unrecoverable failure has occurred on a user defined element. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-201	2580 891	Device configuration error. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-202	2580 891	The enclosure failed to open. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-203	2580 891	The enclosure failed to return inquiry data. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-204	152 166	There is a critical power supply or fan failure. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2580-205	152 166	There is a redundant power supply or fan failure. Action: Go to MAP 2010: 7031-D24 or 7031-T24 START.
2581-101	2581	Local Memory Test Failure Action: Use MAP 0210: General problem resolution.
2581-102	2581	Local Memory Test Failure Action: Use MAP 0210: General problem resolution.
2581-103	2581	Memory Test Failure Action: Use MAP 0210: General problem resolution.
2581-104	2581	NVRAM Test Failure Action: Use MAP 0210: General problem resolution.
2581-105	2581	Flash Test Failure Action: Use MAP 0210: General problem resolution.
2581-106	2581	Internal Wrap Test Failure Action: Use MAP 0210: General problem resolution.
2581-107	2581	External Wrap Test Failure Action: Use MAP 0210: General problem resolution.
2581-108	2581	DMA Test Failure Action: Use MAP 0210: General problem resolution.
2581-109	221	Enhanced Error Handling Failure on bus Action: Use MAP 0210: General problem resolution.
2581-110	2581	Enhanced Error Handling Failure on adapter Action: Use MAP 0210: General problem resolution.
2581-201	2581 221	Configuration and I/O Register Test Failure Action: Use MAP 0210: General problem resolution.
2581-601	2581	Error log analysis indicates that the adapter self-test failed. Action: Use MAP 0210: General Problem Resolution.
2581-602	2581	Error log analysis indicates that an NVRAM failure on the adapter has occurred. Action: Use MAP 0210: General problem resolution.
2581-603	2581	Error log analysis indicates that an adapter error has occurred. Action: Use MAP 0210: General Problem Resolution.
2581-604	2581	Error log analysis indicates that a fatal error has occurred. Action: Use MAP 0210: General Problem Resolution.
2581-605	2581	Error log analysis indicates that an adapter error has occurred. Action: Use MAP 0210: General Problem Resolution.

Service Request Number	Failing Function Codes	Description and Action
2581-606	2581	Error log analysis indicates that an unknown adapter hardware error has occurred. Action: Use MAP 0210: General problem resolution.
2583-101	2583	Local Memory Test Failure Action: Use MAP 0210: General problem resolution.
2583-102	2583	Local Memory Test Failure Action: Use MAP 0210: General problem resolution.
2583-103	2583	Memory Test Failure Action: Use MAP 0210: General problem resolution.
2583-104	2583	NVRAM Test Failure Action: Use MAP 0210: General problem resolution.
2583-105	2583	Flash Test Failure Action: Use MAP 0210: General problem resolution.
2583-106	2583	Internal Wrap Test Failure Action: Use MAP 0210: General problem resolution.
2583-107	2583	External Wrap Test Failure Action: Use MAP 0210: General problem resolution.
2583-108	2583	DMA Test Failure Action: Use MAP 0210: General problem resolution.
2583-109	221	Enhanced Error Handling Failure on bus Action: Use MAP 0210: General problem resolution.
2583-110	2583	Enhanced Error Handling Failure on adapter Action: Use MAP 0210: General problem resolution.
2583-201	2583 221	Configuration and I/O Register Test Failure Action: Use MAP 0210: General problem resolution.
2583-601	2583	Error log analysis indicates that the adapter self-test failed. Action: Use MAP 0210: General Problem Resolution.
2583-602	2583	Error log analysis indicates that an NVRAM failure on the adapter has occurred. Action: Use MAP 0210: General problem resolution.
2583-603	2583	Error log analysis indicates that an adapter error has occurred. Action: Use MAP 0210: General Problem Resolution.
2583-604	2583	Error log analysis indicates that a fatal error has occurred. Action: Use MAP 0210: General Problem Resolution.
2583-605	2583	Error log analysis indicates that an adapter error has occurred. Action: Use MAP 0210: General Problem Resolution.
2583-606	2583	Error log analysis indicates that an unknown adapter hardware error has occurred. Action: Use MAP 0210: General problem resolution.
2584-101	2584	Unable to open DVD-ROM device driver. Action: Use MAP 0210: General problem resolution.
2584-201	25A0	Unable to configure adapter. Action: Use MAP 0210: General problem resolution.
2584-202	2584 25A0 media	Unable to configure the device. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
2584-203	25A0	Unable to open IDE adapter driver. Action: Use MAP 0210: General problem resolution.
2584-204	media 2584	The Inquire command failed. Action: Use MAP 0210: General problem resolution.
2584-205	2584 media	The Read Sense Data command failed. Action: Use MAP 0210: General problem resolution.
2584-206	2584	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
2584-207	2584 media	The test media is bad or missing. Action: Use MAP 0210: General problem resolution.
2584-210	2584	The Prevent Media Removal or Allow Media Removal command failed. Action: Use MAP 0210: General problem resolution.
2584-701	2584	ELA indicates drive hardware failure. Action: Use MAP 0210: General problem resolution.
2584-702	2584	ELA indicates drive hardware failure. Action: Use MAP 0210: General problem resolution.
2585-101	2585	Unable to open DVD-ROM device driver. Action: Use MAP 0210: General problem resolution.
2585-201	25A0	Unable to configure adapter. Action: Use MAP 0210: General problem resolution.
2585-202	2585 25A0 media	Unable to configure the device. Action: Use MAP 0210: General problem resolution.
2585-203	25A0	Unable to open IDE adapter driver. Action: Use MAP 0210: General problem resolution.
2585-204	media 2585	The Inquire command failed. Action: Use MAP 0210: General problem resolution.
2585-205	2585 media	The Read Sense Data command failed. Action: Use MAP 0210: General problem resolution.
2585-206	2585	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
2585-207	2585 media	The test media is bad or missing. Action: Use MAP 0210: General problem resolution.
2585-210	2585	The Prevent Media Removal or Allow Media Removal command failed. Action: Use MAP 0210: General problem resolution.
2585-701	2585	ELA indicates drive hardware failure. Action: Use MAP 0210: General problem resolution.
2585-702	2585	ELA indicates drive hardware failure. Action: Use MAP 0210: General problem resolution.
2590-101	2590	Unable to open CD-ROM device driver. Action: Use MAP 0210: General problem resolution.
2590-201	25A0	Unable to configure adapter. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
2590-202	2590 25A0 media	Unable to configure the device. Action: Use MAP 0210: General problem resolution.
2590-203	25A0	Unable to open IDE adapter driver. Action: Use MAP 0210: General problem resolution.
2590-204	media 2590	The Inquire command failed. Action: Use MAP 0210: General problem resolution.
2590-205	2590 media	The Read Sense Data command failed. Action: Use MAP 0210: General problem resolution.
2590-206	2590	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
2590-207	media 2590	The test media is bad or missing. Action: Use MAP 0210: General problem resolution.
2590-208	2590 media	The CD-ROM Play Audio command failed. Action: Use MAP 0210: General problem resolution.
2590-209	2590	No tone during audio test. Action: Use MAP 0210: General problem resolution.
2590-210	2590	The Prevent Media Removal or Allow Media Removal command failed. Action: Use MAP 0210: General problem resolution.
2590-211	2590	CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
2590-701	2590	ELA indicates drive hardware failure. Action: Use MAP 0210: General problem resolution.
2590-702	2590	ELA indicates drive hardware failure. Action: Use MAP 0210: General problem resolution.
2591-101	2591	Unable to open DVD-ROM device driver. Action: Use MAP 0210: General problem resolution.
2591-201	25A0	Unable to configure adapter. Action: Use MAP 0210: General problem resolution.
2591-202	2591 25A0 media	Unable to configure the device. Action: Use MAP 0210: General problem resolution.
2591-203	25A0	Unable to open IDE adapter driver. Action: Use MAP 0210: General problem resolution.
2591-204	media 2591	The Inquire command failed. Action: Use MAP 0210: General problem resolution.
2591-205	2591 media	The Read Sense Data command failed. Action: Use MAP 0210: General problem resolution.
2591-206	2591	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
2591-207	2591 media	The test media is bad or missing. Action: Use MAP 0210: General problem resolution.
2591-210	2591	The Prevent Media Removal or Allow Media Removal command failed. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
2591-701	2591	ELA indicates drive hardware failure. Action: Use MAP 0210: General problem resolution.
2591-702	2591	ELA indicates drive hardware failure. Action: Use MAP 0210: General problem resolution.
2592-101	2592	Unable to open slimline DVD-ROM device driver. Action: Use MAP 0210: General problem resolution.
2592-201	25A0	Unable to configure adapter. Action: Use MAP 0210: General problem resolution.
2592-202	2592 25A0 media	Unable to configure the device. Action: Use MAP 0210: General problem resolution.
2592-203	25A0	Unable to open IDE adapter driver. Action: Use MAP 0210: General problem resolution.
2592-204	media 2592	The Inquire command failed. Action: Use MAP 0210: General problem resolution.
2592-205	2592 media	The Read Sense Data command failed. Action: Use MAP 0210: General problem resolution.
2592-206	2592	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
2592-207	media 2592	The test media is bad or missing. Action: Use MAP 0210: General problem resolution.
2592-210	2592	The Prevent Media Removal or Allow Media Removal command failed. Action: Use MAP 0210: General problem resolution.
2592-701	2592	ELA indicates drive hardware failure. Action: Use MAP 0210: General problem resolution.
2592-702	2592	ELA indicates drive hardware failure. Action: Use MAP 0210: General problem resolution.
2593-101	2593	Unable to open device driver. Action: Use MAP 0210: General problem resolution.
2593-201	25A0	Unable to configure adapter. Action: Use MAP 0210: General problem resolution.
2593-202	2593 25A0 Media	Unable to configure the device. Action: Use MAP 0210: General problem resolution.
2593-203	25A0	Unable to open device driver. Action: Use MAP 0210: General problem resolution.
2593-204	Media 2593	The Inquire command failed. Action: Use MAP 0210: General problem resolution.
2593-205	2593 Media	The Read Sense Data command failed. Action: Use MAP 0210: General problem resolution.
2593-206	2593	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
2593-207	Media 2593	A media error was detected. The test media is bad or missing Action: Try switching out the DVD media. If the problem persists, go to MAP 0210: General problem resolution MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
2593-208	2593 Media	The DVD-ROM Play Audio command failed. Action: Use MAP 0210: General Problem Resolution.
2593-209	2593	No tone during audio test. Action: Use MAP 0210: General problem resolution.
2593-210	2593	The Prevent Media Removal or Allow Media Removal or command failed. Action: Use MAP 0210: General problem resolution.
2593-211	2593	DVD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
2593-212	2593 Media	The Write/Read/Compare Test Failed. Action: Use MAP 0210: General problem resolution.
2593-701	2593	ELA indicates drive hardware failure. Action: Use MAP 0210: General problem resolution.
2593-702	2593	ELA indicates drive hardware failure. Action: Use MAP 0210: General problem resolution.
25B9-101	25B9	Local Memory Test Failure Action: Use MAP 0210: General problem resolution.
25B9-102	25B9	Local Memory Test Failure Action: Use MAP 0210: General problem resolution.
25B9-103	25B9	Memory Test Failure Action: Use MAP 0210: General problem resolution.
25B9-104	25B9	NVRAM Test Failure Action: Use MAP 0210: General problem resolution.
25B9-105	25B9	Flash Test Failure Action: Use MAP 0210: General problem resolution.
25B9-106	25B9	Internal Wrap Test Failure Action: Use MAP 0210: General problem resolution.
25B9-107	25B9	External Wrap Test Failure Action: Use MAP 0210: General problem resolution.
25B9-108	25B9	DMA Test Failure Action: Use MAP 0210: General problem resolution.
25B9-109	221	Enhanced Error Handling Failure on bus Action: Use MAP 0210: General problem resolution.
25B9-110	25B9	Enhanced Error Handling Failure on adapter Action: Use MAP 0210: General problem resolution.
25B9-201	25B9 221	Configuration and I/O Register Test Failure Action: Use MAP 0210: General problem resolution.
25B9-601	25B9	Error log analysis indicates that the adapter self-test failed. Action: Use MAP 0210: General Problem Resolution.
25B9-602	25B9	Error log analysis indicates that an NVRAM failure on the adapter has occurred. Action: Use MAP 0210: General problem resolution.
25B9-603	25B9	Error log analysis indicates that an adapter error has occurred. Action: Use MAP 0210: General Problem Resolution.
25B9-604	25B9	Error log analysis indicates that a fatal error has occurred. Action: Use MAP 0210: General Problem Resolution.

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Service Request Number	Failing Function Codes	Description and Action
25B9-605	25B9	Error log analysis indicates that an adapter error has occurred. Action: Use MAP 0210: General Problem Resolution.
25B9-606	25B9	Error log analysis indicates that an unknown adapter hardware error has occurred. Action: Use MAP 0210: General problem resolution.
25C0-101	221	Enhanced Error Handling Failure on bus. Action: Use MAP 0210: General problem resolution.
25C0-102	293	Enhanced Error Handling Logic Failure. Action: Use MAP 0210: General problem resolution.
25C0-103	25C0 221	Enhanced Error Handling Failure while testing adapter. Action: Use MAP 0210: General problem resolution.
25C0-104	25C0	Internal wrap test failure (10 Mbps). Action: Use MAP 0210: General problem resolution.
25C0-105	25C0	Internal wrap test failure (100 Mbps). Action: Use MAP 0210: General problem resolution.
25C0-106	25C0	Internal wrap test failure (1000 Mbps). Action: Use MAP 0210: General problem resolution.
25C0-107	25C0	External wrap test failure (10 Mbps). Action: Use MAP 0210: General problem resolution.
25C0-108	25C0	External wrap test failure (100 Mbps). Action: Use MAP 0210: General problem resolution.
25C0-201	25C0 221	Registers test failure. Action: Use MAP 0210: General problem resolution.
25C0-701	25C0	Failure to initialize due to a self-test failure. Action: Use MAP 0210: General problem resolution.
25C0-702	25C0 221	Failure to recover from an EEH event. Action: Use MAP 0210: General problem resolution.
25C0-703	25C0	Failure to initialize due to a problem while reading the EEPROM on the adapter. Action: Use MAP 0210: General problem resolution.
25C0-704	25C0 221	Device has attempted error recover. Action: Use MAP 0210: General problem resolution.
25C0-705	25C0 221	Device has attempted error recovery. Action: Use MAP 0210: General problem resolution.
25C1-101	221	Enhanced Error Handling Failure on bus. Action: Use MAP 0210: General problem resolution.
25C1-102	293	Enhanced Error Handling Logic Failure. Action: Use MAP 0210: General problem resolution.
25C1-103	25C1 221	Enhanced Error Handling Failure while testing adapter. Action: Use MAP 0210: General problem resolution.
25C1-104	25C1	Internal wrap test failure (10 Mbps). Action: Use MAP 0210: General problem resolution.
25C1-105	25C1	Internal wrap test failure (100 Mbps). Action: Use MAP 0210: General problem resolution.
25C1-106	25C1	Internal wrap test failure (1000 Mbps). Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
25C1-107	25C1	External wrap test failure (10 Mbps). Action: Use MAP 0210: General problem resolution.
25C1-108	25C1	External wrap test failure (100 Mbps). Action: Use MAP 0210: General problem resolution.
25C1-201	25C1 221	Registers test failure. Action: Use MAP 0210: General problem resolution.
25C1-701	25C1	Failure to initialize due to a self-test failure. Action: Use MAP 0210: General problem resolution.
25C1-702	25C1 221	Failure to recover from an EEH event. Action: Use MAP 0210: General problem resolution.
25C1-703	25C1	Failure to initialize due to a problem while reading the EEPROM on the adapter. Action: Use MAP 0210: General problem resolution.
25C1-704	25C1 221	Device has attempted error recovery. Action: Use MAP 0210: General problem resolution.
25C1-705	25C1 221	Device has attempted error recovery. Action: Use MAP 0210: General problem resolution.
25C2-101	221	Enhanced Error Handling Failure on bus. Action: Use MAP 0210: General problem resolution.
25C2-103	25C2 221	Enhanced Error Handling Failure while testing adapter. Action: Use MAP 0210: General problem resolution.
25C2-104	25C2	Internal wrap test failure (10 Mbps). Action: Use MAP 0210: General problem resolution.
25C2-105	25C2	Internal wrap test failure (100 Mbps). Action: Use MAP 0210: General problem resolution.
25C2-106	25C2	Internal wrap test failure (1000 Mbps). Action: Use MAP 0210: General problem resolution.
25C2-107	25C2	External wrap test failure (10 Mbps). Action: Use MAP 0210: General problem resolution.
25C2-108	25C2	External wrap test failure (100 Mbps). Action: Use MAP 0210: General problem resolution.
25C2-201	25C2 221	Registers test failure. Action: Use MAP 0210: General problem resolution.
25C2-701	25C2	Failure to initialize due to a self-test failure. Action: Use MAP 0210: General problem resolution.
25C2-702	25C2 221	Failure to recover from an EEH event. Action: Use MAP 0210: General problem resolution.
25C2-703	25C2	Failure to initialize due to a problem while reading the EEPROM on the adapter. Action: Use MAP 0210: General problem resolution.
25C2-704	25C2 221	Device has attempted error recovery. Action: Use MAP 0210: General problem resolution.
25C3-101	25C3	Enhanced Error Handling Failure on bus. Action: Use MAP 0210: General problem resolution.
25C3-103	25C3 221	Enhanced Error Handling Failure while testing adapter. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
25C3-104	25C3	Internal wrap test failure (10 Mbps). Action: Use MAP 0210: General problem resolution.
25C3-105	25C3	Internal wrap test failure (100 Mbps). Action: Use MAP 0210: General problem resolution.
25C3-106	25C3	Internal wrap test failure (1000 Mbps). Action: Use MAP 0210: General problem resolution.
25C3-107	25C3	External wrap test failure (10 Mbps). Action: Use MAP 0210: General problem resolution.
25C3-108	25C3	External wrap test failure (100 Mbps). Action: Use MAP 0210: General problem resolution.
25C3-201	25C3 221	Registers test failure. Action: Use MAP 0210: General problem resolution.
25C3-701	25C3	Failure to initialize due to a self-test failure. Action: Use MAP 0210: General problem resolution.
25C3-702	25C3 221	Failure to recover from an EEH event. Action: Use MAP 0210: General problem resolution.
25C3-703	25C3	Failure to initialize due to a problem while reading the EEPROM on the adapter. Action: Use MAP 0210: General problem resolution.
25C3-704	25C3 221	Device has attempted error recovery. Action: Use MAP 0210: General problem resolution.
25C4-201	25C4 221	Configuration Error. Action: Use MAP 0210: General problem resolution.
25C4-601	25C4	Download firmware error. Action: Use MAP 0210: General problem resolution.
25C4-602	25C4	EEPROM read error. Action: Use MAP 0210: General problem resolution.
25C4-701	25C4 221	Permanent adapter failure. Action: Use MAP 0210: General problem resolution.
25D0-099	25D0	Audio System error log entry. Action: Use MAP 0210: General problem resolution.
25D0-101	25D0 software	Audio Subsystem failed. Action: Use MAP 0210: General problem resolution.
25D0-102	25D0	CS4232 failed. Action: Use MAP 0210: General problem resolution.
25D0-103	25D0	Clock control failed. Action: Use MAP 0210: General problem resolution.
25D0-108	25D0	Loop back failed. Action: Use MAP 0210: General problem resolution.
25D2-101	25D2210	Adapter configuration error. Action: Use MAP 0210: General problem resolution.
25D2-710	25D2	Permanent adapter failure. Action: Use MAP 0210: General problem resolution.
25D2-711	25D2	Temporary adapter failures. Action: Use MAP 0210: General problem resolution.

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Replace FRU parts in the order by which the "Failing Function Codes" are listed.

Service Request Number	Failing Function Codes	Description and Action
2600-101	2600	The Fibre Channel Adapter configuration failed. Action: Use MAP 0210: General problem resolution.
2600-102	2600	The Reset test failed. Action: Use MAP 0210: General problem resolution.
2600-103	2600	The Register test failed. Action: Use MAP 0210: General problem resolution.
2600-104	2600	The SRAM test failed. Action: Use MAP 0210: General problem resolution.
2600-105	2600	The Internal Wrap test failed. Action: Use MAP 0210: General problem resolution.
2600-106	2600	The Gigabaud Link Module (GLM) Wrap Test Failure. Action: Use MAP 0210: General problem resolution.
2600-107	2600	The External Wrap test failed. Action: Use MAP 0210: General problem resolution.
2600-109	221	Enhanced Error Handling Failure on EADs chip. Action: Use MAP 0210: General problem resolution.
2600-110	2600	Enhanced Error Handling Failure on adapter. Action: Use MAP 0210: General problem resolution.
2600-201	2600 221	The Configuration Register test failed. Action: Use MAP 0210: General problem resolution.
2600-202	2600 221	The Interrupt test failed. Action: Use MAP 0210: General problem resolution.
2600-203	2600 221	The PCI Wrap test failed. Action: Use MAP 0210: General problem resolution.
2600-204	2600 221	The DMA test failed. Action: Use MAP 0210: General problem resolution.
2600-205	2600 221	I/O error on a read/write operation. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
2600-701	2600 221	Error log analysis indicates that an error has occurred with the adapter. Action: Use MAP 0210: General problem resolution.
2600-703	2600	Error log analysis indicates that an unknown adapter error has occurred. Action: Use MAP 0210: General problem resolution.
2600-704	2600	Error log analysis indicates that an adapter error has occurred. Action: Use MAP 0210: General problem resolution.
2600-705	2600	A parity error has been detected. The adapter must be replaced immediately. Failure to do so could result in data being read or written incorrectly. Action: Use MAP 0210: General problem resolution.
2600-706	2600	A fatal hardware error has occurred. This adapter was successfully taken offline. It will remain offline until reconfigured or the system is rebooted. This adapter must be replaced and not brought back online. Failure to adhere to this action could result in data being read or written incorrectly or in the loss of data.
2601-102	2601	The Reset test failed. Action: Use MAP 0210: General problem resolution.
2601-103	2601	The Register test failed. Action: Use MAP 0210: General problem resolution.
2601-104	2601	The SRAM test failed. Action: Use MAP 0210: General problem resolution.
2601-105	2601	The Internal Wrap test failed. Action: Use MAP 0210: General problem resolution.
2601-106	2601	The Gigabaud Link Module (GLM) Wrap Test Failure. Action: Use MAP 0210: General problem resolution.
2601-107	2601	The External Wrap test failed. Action: Use MAP 0210: General problem resolution.
2601-108	221	Enhanced Error Handling Failure on bus Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
2601-110	2601	Enhanced Error Handling Failure on adapter Action: Use MAP 0210: General problem resolution.
2601-201	2601 221	The Configuration Register test failed. Action: Use MAP 0210: General problem resolution.
2601-202	2601 221	The Interrupt test failed. Action: Use MAP 0210: General problem resolution.
2601-203	2601	The PCI Wrap test failed. Action: Use MAP 0210: General problem resolution.
2601-204	2601 221	The DMA test failed. Action: Go to Action: Use MAP 0210: General problem resolution.
2601-205	2601 221	I/O error on a read/write operation. Action: Use MAP 0210: General problem resolution.
2601-701	2601	Error log analysis indicates that an error has occurred with the adapter. Action: Use MAP 0210: General problem resolution.
2601-703	2601	Error log analysis indicates that an unknown adapter error has occurred. Action: Use MAP 0210: General problem resolution.
2601-704	2601	Error log analysis indicates that an adapter error has occurred. Action: Use MAP 0210: General problem resolution.
2601-705	2601	A parity error has been detected. The adapter must be replaced immediately. Failure to do so could result in data being read or written incorrectly. Action: Use MAP 0210: General problem resolution.
2601-706	2601	A fatal hardware error has occurred. This adapter was successfully taken offline. It will remain offline until reconfigured or the system is rebooted. This adapter must be replaced and not brought back online. Failure to adhere to this action could result in data being read or written incorrectly or in the loss of data.
2602-102	2602	The Reset test failed. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
2602-103	2602	The Register test failed. Action: Use MAP 0210: General problem resolution.
2602-104	2602	The SRAM test failed. Action: Use MAP 0210: General problem resolution.
2602-105	2602	The Internal Wrap test failed. Action: Use MAP 0210: General problem resolution.
2602-106	2602	The Gigabaud Link Module (GLM) Wrap Test Failure. Action: Use MAP 0210: General problem resolution.
2602-107	2602	The External Wrap test failed. Action: Use MAP 0210: General problem resolution.
2602-108	221	Enhanced Error Handling Failure on bus Action: Use MAP 0210: General problem resolution.
2602-110	2602	Enhanced Error Handling Failure on adapter Action: Use MAP 0210: General problem resolution.
2602-201	2602 221	The Configuration Register test failed. Action: Use MAP 0210: General problem resolution.
2602-202	2602 221	The Interrupt test failed. Action: Use MAP 0210: General problem resolution.
2602-203	2602	The PCI Wrap test failed. Action: Use MAP 0210: General problem resolution.
2602-204	2602 221	The DMA test failed. Action: Use MAP 0210: General problem resolution.
2602-205	2602 221	I/O error on a read/write operation. Action: Use MAP 0210: General problem resolution.
2602-701	2602	Error log analysis indicates that an error has occurred with the adapter. Action: Use MAP 0210: General problem resolution.
2602-703	2602	Error log analysis indicates that an unknown adapter error has occurred. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
2602-704	2602	Error log analysis indicates that an adapter error has occurred. Action: Use MAP 0210: General problem resolution.
2602-705	2602	A parity error has been detected. The adapter must be replaced immediately. Failure to do so could result in data being read or written incorrectly. Action: Use MAP 0210: General problem resolution.
2602-706	2602	A fatal hardware error has occurred. This adapter was successfully taken offline. It will remain offline until reconfigured or the system is rebooted. This adapter must be replaced and not brought back online. Failure to adhere to this action could result in data being read or written incorrectly or in the loss of data. Action: Use MAP 0210: General problem resolution.
2603-102	2603	The Reset test failed. Action: Use MAP 0210: General problem resolution.
2603-103	2603	The Register test failed. Action: Use MAP 0210: General problem resolution.
2603-104	2603	The SRAM test failed. Action: Use MAP 0210: General problem resolution.
2603-105	2603	The Internal Wrap test failed. Action: Use MAP 0210: General problem resolution.
2603-106	2603	The Gigabaud Link Module (GLM) Wrap Test Failure. Action: Use MAP 0210: General problem resolution.
2603-107	2603	The External Wrap test failed. Action: Use MAP 0210: General problem resolution.
2603-108	221	Enhanced Error Handling Failure on bus Action: Use MAP 0210: General problem resolution.
2603-110	2603	Enhanced Error Handling Failure on adapter Action: Use MAP 0210: General problem resolution.
2603-201	2603 221	The Configuration Register test failed. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
2603-202	2603 221	The Interrupt test failed. Action: Use MAP 0210: General problem resolution.
2603-203	2603	The PCI Wrap test failed. Action: Use MAP 0210: General problem resolution.
2603-204	2603 221	The DMA test failed. Action: Use MAP 0210: General problem resolution.
2603-205	2603 221	I/O error on a read/write operation. Action: Use MAP 0210: General problem resolution.
2603-701	2603	Error log analysis indicates that an error has occurred with the adapter. Action: Use MAP 0210: General problem resolution.
2603-703	2603	Error log analysis indicates that an unknown adapter error has occurred. Action: Use MAP 0210: General problem resolution.
2603-704	2603	Error log analysis indicates that an adapter error has occurred. Action: Use MAP 0210: General problem resolution.
2603-705	2603	A parity error has been detected. The adapter must be replaced immediately. Failure to do so could result in data being read or written incorrectly. Action: Use MAP 0210: General problem resolution.
2603-706	2603	A fatal hardware error has occurred. This adapter was successfully taken offline. It will remain offline until reconfigured or the system is rebooted. This adapter must be replaced and not brought back online. Failure to adhere to this action could result in data being read or written incorrectly or in the loss of data. Action: Use MAP 0210: General problem resolution.
2604-102	2604	The Reset test failed. Action: Use MAP 0210: General problem resolution.
2604-103	2604	The Register test failed. Action: Use MAP 0210: General problem resolution.
2604-104	2604	The SRAM test failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
2604-105	2604	The Internal Wrap test failed. Action: Use MAP 0210: General problem resolution.
2604-106	2604	The Gigabaud Link Module (GLM) Wrap Test Failure. Action: Use MAP 0210: General problem resolution.
2604-107	2604	The External Wrap test failed. Action: Use MAP 0210: General problem resolution.
2604-108	221	Enhanced Error Handling Failure on bus Action: Use MAP 0210: General problem resolution.
2604-110	2604	Enhanced Error Handling Failure on adapter Action: Use MAP 0210: General problem resolution.
2604-201	2604 221	The Configuration Register test failed. Action: Use MAP 0210: General problem resolution.
2604-202	2604 221	The Interrupt test failed. Action: Use MAP 0210: General problem resolution.
2604-203	2604	The PCI Wrap test failed. Action: Use MAP 0210: General problem resolution.
2604-204	2604 221	The DMA test failed. Action: Use MAP 0210: General problem resolution.
2604-205	2604 221	I/O error on a read/write operation. Action: Use MAP 0210: General problem resolution.
2604-701	2604	Error log analysis indicates that an error has occurred with the adapter. Action: Use MAP 0210: General problem resolution.
2604-703	2604	Error log analysis indicates that an unknown adapter error has occurred. Action: Use MAP 0210: General problem resolution.
2604-704	2604	Error log analysis indicates that an adapter error has occurred. Action: Use MAP 0210: General problem resolution.
2604-705	2604	A parity error has been detected. The adapter must be replaced immediately. Failure to do so could result in data being read or written incorrectly. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
2604-706	2604	A fatal hardware error has occurred. This adapter was successfully taken offline. It will remain offline until reconfigured or the system is rebooted. This adapter must be replaced and not brought back online. Failure to adhere to this action could result in data being read or written incorrectly or in the loss of data. Action: Use MAP 0210: General problem resolution.
2611-110	2611	The Reserve command failed. Action: Use MAP 0210: General problem resolution.
2611-120	2611	The Inquiry command failed. Action: Use MAP 0210: General problem resolution.
2611-130	2611 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
2611-135	2611 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
2611-140	2611	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
2611-150	2611 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
2611-160	2611 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
2611-169	2611 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
2611-170	2611 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
2611-180	2611 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
2611-185	2611 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
2611-190	2611	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
2611-200	2611 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
2611-210	2611 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
2611-220	2611	The Release command failed. Action: Use MAP 0210: General problem resolution.
2611-230	2611	The Request Sense command failed. Action: Use MAP 0210: General problem resolution.
2611-240	2611	The Openx command failed. Action: Use MAP 0210: General problem resolution.
2611-300	2611 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
2611-310	B88 2611 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
2611-320	2611 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
2611-411 to 2611-423	2611 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.
2611-511 to 2611-523	2611 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
2611-611 to 2611-623	2611 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
2611-711 to 2611-723	2611 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.
2612-110	2612	The Reserve command failed. Action: Use MAP 0210: General problem resolution.
2612-120	2612	The Inquiry command failed. Action: Use MAP 0210: General problem resolution.
2612-130	2612 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
2612-135	2612 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
2612-140	2612	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
2612-150	2612 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
2612-160	2612 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
2612-169	2612 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
2612-170	2612 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
2612-180	2612 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
2612-185	2612 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
2612-190	2612	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
2612-200	2612 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
2612-210	2612 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
2612-220	2612	The Release command failed. Action: Use MAP 0210: General problem resolution.
2612-230	2612	The Request Sense command failed. Action: Use MAP 0210: General problem resolution.
2612-240	2612	The Openx command failed. Action: Use MAP 0210: General problem resolution.
2612-300	2612 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
2612-310	B88 2612 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
2612-320	2612 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
2612-411 to 2612-423	2612 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
2612-511 to 2612-523	2612 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
2612-611 to 2612-623	2612 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
2612-711 to 2612-723	2612 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.
2613-110	2613	The Reserve command failed. Action: Use MAP 0210: General problem resolution.
2613-120	2613	The Inquiry command failed. Action: Use MAP 0210: General problem resolution.
2613-130	2613 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
2613-135	2613 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
2613-140	2613	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
2613-150	2613 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
2613-160	2613 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
2613-169	2613 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
2613-170	2613 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
2613-180	2613 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
2613-185	2613 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
2613-190	2613	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
2613-200	2613 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
2613-210	2613 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
2613-220	2613	The Release command failed. Action: Use MAP 0210: General problem resolution.
2613-230	2613	The Request Sense command failed. Action: Use MAP 0210: General problem resolution.
2613-240	2613	The Openx command failed. Action: Use MAP 0210: General problem resolution.
2613-300	2613 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
2613-310	B88 2613 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
2613-320	2613 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
2613-411 to 2613-423	2613 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.
2613-511 to 2613-523	2613 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
2613-611 to 2613-623	2613 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
2613-711 to 2613-723	2613 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.
2614-110	2614	The Reserve command failed. Action: Use MAP 0210: General problem resolution.
2614-120	2614	The Inquiry command failed. Action: Use MAP 0210: General problem resolution.
2614-130	2614 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
2614-135	2614 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
2614-140	2614	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
2614-150	2614 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
2614-160	2614 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
2614-169	2614 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
2614-170	2614 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
2614-180	2614 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
2614-185	2614 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
2614-190	2614	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
2614-200	2614 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
2614-210	2614 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
2614-220	2614	The Release command failed. Action: Use MAP 0210: General problem resolution.
2614-230	2614	The Request Sense command failed. Action: Use MAP 0210: General problem resolution.
2614-240	2614	The Openx command failed. Action: Use MAP 0210: General problem resolution.
2614-300	2614 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
2614-310	B88 2614 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
2614-320	2614 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
2614-411 to 2614-423	2614 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
2614-511 to 2614-523	2614 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
2614-611 to 2614-623	2614 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
2614-711 to 2614-723	2614 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.
2615-110	2615	The Reserve command failed. Action: Use MAP 0210: General problem resolution.
2615-120	2615	The Inquiry command failed. Action: Use MAP 0210: General problem resolution.
2615-130	2615 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
2615-135	2615 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
2615-140	2615	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
2615-150	2615 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
2615-160	2615 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
2615-169	2615 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
2615-170	2615 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
2615-180	2615 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
2615-185	2615 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
2615-190	2615	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
2615-200	2615 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
2615-210	2615 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
2615-220	2615	The Release command failed. Action: Use MAP 0210: General problem resolution.
2615-230	2615	The Request Sense command failed. Action: Use MAP 0210: General problem resolution.
2615-240	2615	The Openx command failed. Action: Use MAP 0210: General problem resolution.
2615-300	2615 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
2615-310	B88 2615 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
2615-320	2615 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
2615-411 to 2615-423	2615 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.
2615-511 to 2615-523	2615 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
2615-611 to 2615-623	2615 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
2615-711 to 2615-723	2615 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.
2617-110	2617	The Reserve command failed. Action: Use MAP 0210: General problem resolution.
2617-120	2617	The Inquiry command failed. Action: Use MAP 0210: General problem resolution.
2617-130	2617 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
2617-135	2617 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
2617-140	2617	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
2617-150	2617 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
2617-160	2617 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
2617-169	2617 media	The Send Diagnostic command failed. Action: Use MAP 0210: General problem resolution.
2617-170	2617 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
2617-180	2617 media	The Load command failed. Action: Use MAP 0210: General problem resolution.
2617-185	2617 media	The Unload command failed. Action: Use MAP 0210: General problem resolution.
2617-190	2617	The Mode Select command failed. Action: Use MAP 0210: General problem resolution.
2617-200	2617 media	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
2617-210	2617 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
2617-220	2617	The Release command failed. Action: Use MAP 0210: General problem resolution.
2617-230	2617	The Request Sense command failed. Action: Use MAP 0210: General problem resolution.
2617-240	2617	The Openx command failed. Action: Use MAP 0210: General problem resolution.
2617-300	2617 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
2617-310	B88 2617 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
2617-320	2617 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
2617-411 to 2617-423	2617 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
2617-511 to 2617-523	2617 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
2617-611 to 2617-623	2617 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
2617-711 to 2617-723	2617 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.
2621-101	2621	Configuration failed. Action: Go to General problem resolution.
2621-102	2621	Queue pair create failure. Action: Go to General problem resolution
2621-103	2621	Internal loop back test failure Action: Go to General problem resolution
2621-701	2621	Error Log Analysis indicates that this adapter has failed due to a internal error. Action: Go to General problem resolution
2621-702	2621	Error Log Analysis indicates that this adapter has failed due to a failure with the uplink interface used to connect this device to the host processor. Action: Go to General problem resolution.
2621-703	2621	Error Log Analysis indicates that this adapter has failed due to a memory error. Action: Go to General problem resolution.
2621-704	2621	Error Log Analysis indicates that this adapter has failed due to a unrecoverable internal parity error. Action: Go to General problem resolution.
2621-705	2621	Error Log Analysis indicates that this adapter has failed due to a internal error. Action: Go to General problem resolution.
2621-706	2621	Error Log Analysis indicates that this adapter has failed due to a memory error. Action: Go to General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
2640-114	2640	IDE Disk diagnostic failure Action: Go to General problem resolution.
2640-115	2640 2631	IDE disk error on open or configuring device Action: Go to General problem resolution.
2640-121	2640	Physical volume hardware error Action: Go to General problem resolution.
2640-131	2640	Smart status threshold exceeded Action: Go to General problem resolution.
2640-132	2640	Command timeouts threshold exceeded Action: Go to General problem resolution.
2640-133	2640	Command timeout with error condition Action: Go to General problem resolution.
2640-134	2640	Hardware command or DMA failure Action: Go to General problem resolution.
2640-135	2640	IDE DMA error with no error status Action: Go to General problem resolution.
2640-136	2640 2631	TimeOut waiting for controller or drive with no busy status Action: Go to General problem resolution.
2641-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
2642-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
2643-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
2644-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
2645-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
2646-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
2647-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
2648-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
2649-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).

Service Request Number	Failing Function Codes	Description and Action
264b-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
264d-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
264e-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
2650-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
2651-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
2652-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
2653-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
2654-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
2655-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
2656-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
2657-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
2658-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
2659-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
265b-xxx		See SCSI Devices SRN (ssss-102 through ssss-640).
2D07-101	2D07	Adapter configuration error. Action: Use MAP 0210: General problem resolution.
2D07-710	2D07	Permanent adapter failure. Action: Use MAP 0210: General problem resolution.
2D07-711	2D07	Adapter failure. Action: Go to MAP 0210: General problem resolution
2D07-712	2D07	Adapter device bus configuration error. Action: PCI-X Dual Channel Ultra320 SCSI Adapter. Use MAP 0050: SCSI Bus Problems. PCI-X Ultra320 SCSI RAID: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-713	2D07	Adapter failure. Action: Use MAP 0210: General problem resolution.

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Service Request Number	Failing Function Codes	Description and Action
2D07-714	2D07	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
2D07-715	2D07	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
2D07-716	2D07 293	PCI bus error detected by EEH. Action: Use MAP 0210: General problem resolution.
2D07-717	2D07 293	PCI bus error detected by adapter. Action: Use MAP 0210: General problem resolution.
2D07-718	2D07 293	Temporary PCI bus error detected by adapter Action: Use MAP 0210: General problem resolution.
2D07-719		Device bus termination power lost or not detected Action: PCI-X Dual Channel Ultra320 SCSI Adapter. Use MAP 0050: SCSI Bus Problems. PCI-X Ultra320 SCSI RAID: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-720		Adapter device bus configuration error. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, Use to MAP 0050: SCSI Bus Problems. For a PCI-X Ultra320 SCSI RAID adapter, use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-721		Temporary adapter detected device bus failure. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, Use to MAP 0050: SCSI Bus Problems. For a PCI-X Ultra320 SCSI RAID adapter, use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-722	2D07	Device bus interface problem. Action: Use MAP 0210: General problem resolution.
2D07-723		Device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems

Service Request Number	Failing Function Codes	Description and Action
2D07-724	2D07	Temporary device bus interface problem. Action: Use MAP 0210: General problem resolution.
2D07-725		Temporary device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems
2D07-102E	722	Out of alternate disk storage for storage. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-3002	722	Addressed device failed to respond to selection. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-3010	722	Disk returned wrong response to adapter. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-3020		Storage subsystem configuration error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-3100		Adapter detected device bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-3101		Adapter detected device bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-3109		Adapter timed out a disk command. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-3110		Disk bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

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Service Request Number	Failing Function Codes	Description and Action
2D07-7001	722	Temporary disk data error. Action: Use MAP 0210: General Problem Resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-8008	2526 293	Permanent cache battery pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-8009	2526 293	Impending cache battery pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9000		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9001		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9002		Controller detected a device error during configuration discovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9008		Controller does not support function expected for one or more disks. Action: Use MAP 3030 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9010		Cache data associated with attached disks cannot be found. Action: Use MAP 3020 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9011		Cache data belongs to disks other than those attached. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9020		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

Service Request Number	Failing Function Codes	Description and Action
2D07-9021		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9022		Two or more disks are missing from a RAID-5 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9023		One or more disk array members are not at the required physical locations. Action: Use MAP 3012 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9024		The physical location of disk array members conflict with another disk array. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9025		An incompatible disk is installed at a degraded disk location in the disk array. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9026		A previously degraded disk in the disk array was not found at the required physical location. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9027		A disk array is or would become degraded and the parity data is out of synchronization. Action: Use MAP 3013 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9028		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9029		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

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Service Request Number	Failing Function Codes	Description and Action
2D07-9030		The disk array is degraded due to a missing or failed disk. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9031		Automatic reconstruction initiated for the disk array. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9041		Background disk array parity checking detected and corrected errors. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9050		Required cache data cannot be located for one or more disks. Action: Use MAP 3031 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9051		Cache data exists for more than one missing or failed disks. Action: Use MAP 3032 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9052		Cache data exists for one or more modified disks. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9054		RAID controller resources are not available due to previous problems. Action: Use MAP 3021 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9060		One or more disk pairs are missing from a RAID-10 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9061		One or more disk pairs are missing from a RAID-10 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9062		One or more disk pairs are missing from a RAID-0 disk array. Action: Use MAP 3011 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

Service Request Number	Failing Function Codes	Description and Action
2D07-9063		The maximum number of functional disk arrays has been exceeded. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9073		Multiple controllers connected in an invalid configuration. Action: Use MAP 3040 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i>
2D07-9074		Multiple controllers connected in an invalid configuration. Action: Use MAP 3041 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i>
2D07-9081		Controller detected a device error during an internal media recovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9082		Controller detected a device error during an internal media recovery. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9090		Disk has been modified after last known status. Action: Use MAP 3033 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9091		Incorrect disk configuration change has been detected. Action: Use MAP 3033 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9092		Disk requires formatting before use. Action: Use MAP 3034 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9200		Identify disk to be replaced. Action: Use MAP 3036 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-9032		Disk Array is degraded due to missing failed disk. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i>

2502-101 through 25D0-108

Service Request Number	Failing Function Codes	Description and Action
2D07-9042		Background Disk Array parity checking detected and corrected errors on specified disk. Action: Use MAP 3090 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i>
2D07-FFF3		Disk media format bad. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3035 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-FFF4	722	Disk drive problem. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-FFF6	722	Disk detected recoverable error. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-FFFA	722	Temporary disk bus error. Action: Use MAP 0210: General problem resolution. If the problem persists, use MAP 3051 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2D07-FFFE		Temporary disk bus error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

SCSD Devices SRNs (ssss-102 to ssss-640)

Use the following table to replace FRU parts in the order by which the "Failing Function Codes" are listed.

Notes:

1. Some SRNs in this chapter may have 4 rather than 3 digits after the dash (-).
2. The ssss represent the 3 or 4 digit SCSD SRNs before the dash (-).

Note:

Service Request Number	Failing Function Codes	Description and Action
ssss-102	ssss	An unrecoverable media error occurred. Action: Use MAP 0210: General problem resolution.

Service Request Number	Failing Function Codes	Description and Action
ssss-104	ssss	The motor failed to restart. Action: Use MAP 0210: General problem resolution.
ssss-105	ssss	The drive did not become ready. Action: Use MAP 0210: General problem resolution.
ssss-106	ssss	The electronics card test failed. Action: Use MAP 0210: General problem resolution.
ssss-108	ssss	The bus test failed. Action: Use MAP 0210: General problem resolution.
ssss-110	ssss	The media format is corrupted. Action: Use MAP 0210: General problem resolution.
ssss-112	ssss	The diagnostic test failed. Action: Use MAP 0210: General problem resolution.
ssss-114	ssss	An unrecoverable hardware error. Action: Use MAP 0210: General problem resolution.
ssss-116	ssss	A protocol error. Action: Check the levels of the device, adapter, diagnostic software, and application software to be sure they are all compatible. If you do not find a problem, call your support person.
ssss-117	ssss	A write-protect error occurred. Action: Use MAP 0210: General problem resolution.
ssss-118	ssss B88	A SCSD command time-out occurred. Action: Use MAP 0210: General problem resolution.
ssss-120	ssss	A SCSD busy or command error. Action: Use MAP 0210: General problem resolution.
ssss-122	ssss	A SCSD reservation conflict error. Action: Use MAP 0210: General problem resolution.
ssss-124	ssss	A SCSD check condition error occurred. Action: Use MAP 0210: General problem resolution.
ssss-126	ssss B88	A software error was caused by a hardware failure. Action: Use MAP 0210: General problem resolution.
ssss-128	190 B88 ssss software	The error log analysis indicates a hardware failure. Action: Use MAP 0210: General problem resolution.
ssss-129	190 B88 ssss software	Error log analysis indicates a SCSD bus problem. Action: Use MAP 0210: General problem resolution.
ssss-130	ssss	Error log analysis indicates a problem reported by the disk drive's self-monitoring function. Action: Use MAP 0210: General problem resolution.
ssss-132	ssss	A disk drive hardware error occurred. Action: Use MAP 0210: General problem resolution.
ssss-133	ssss	Use the Subsystem Service Guide to complete diagnosis. Action: Use MAP 0210: General problem resolution.
ssss-134	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.

ssss-102 through ssss-640

Service Request Number	Failing Function Codes	Description and Action
ssss-135	ssss B88 software	The device failed to configure. Action: Use MAP 0210: General problem resolution.
ssss-136	ssss	The certify operation failed. Action: Use MAP 0210: General problem resolution.
ssss-137	ssss B88 190	Unit attention condition has occurred on the Send Diagnostic command. Action: Use MAP 0210: General problem resolution.
ssss-138	ssss	Error log analysis indicates that the disk drive is operating at a higher than recommended temperature. Action: Check to be sure none of the air passages in the system covers are blocked, that no other system environmental warnings are occurring. Otherwise, go to MAP 0210: General problem resolution.
ssss-140	199 B88 ssss	Error log analysis indicates poor signal quality. Action: Use MAP 0210: General problem resolution.
ssss-640		Error log analysis indicates a path error. Action: Use MAP 0285: Multipath I/O (MPIO) problem resolution.

Using service request numbers

Diagnostic applications report problems by using service request numbers (SRNs). The SRN identifies the component that detected the error code and describes the error condition. Use the SRN information to identify a list of possible failing items and to find information about any additional isolation procedures.

Service request number formats

If your SRC is a 5-digit hexadecimal number or contains a hyphen in the following formats (xxxxx, xxx-xxx, xxx-xxxx, xxxx-xxx, xxxx-xxxx), it is an SRN.

Using the list of service request numbers

The list of SRNs is in numeric order. The SRNs in each range may include codes that consist of anywhere from 6 to 8 digits. When the SRN you are looking for contains 3 digits before the dash, select the link that contains the first 3 digits followed by the dash of that SRN. Use the same process when the SRN you are looking for contains 4 digits before the dash. For example, if the SRN is 2570-603, click "SRNs 2502-101 through 25D0-108" on page 687, because this SRN falls between the number range of 2520-(x)xxx and 2590-(x)xxx.

The SRN tables use the following format:

- The first column, Service Request Number (SRN), contains numbers that represent specific failures of specific functions.
- The second column, SRN Src. (SRN source code), contains the code that identifies the program or procedure that produced the SRN. For more information about using SRN Src codes, see SRN source code.
- The third column, Failing Function Codes, represents functional areas of the system unit. When available, the failing function code links to the FRU that contains this function for each specific system unit.
- The last column, Description and Action, offers a brief description of the failure that this SRN represents. It also contains instructions for continuing the problem analysis.

To use the list of SRNs, complete the following steps:

1. Click the item in the list of SRNs that includes the SRN that you want to find.
2. When the SRN table appears, select the appropriate SRN from the first column of the table.
3. Record the code letter for the Source of SRN (the SRN Src. column).
4. Record the failing function codes in the order listed.
5. Perform the action shown in the Description and Action column.

Note: If your SRN is not listed, check to see if xxx or xxxx has been used. The -xxx or -xxxx should always be the last SRN identified within a specific prefix. For example, for SRN 950-xxxx, the xxxx represents the last entry within the 950 prefix.

SRN source code

When using SRNs to identify a problem and its resolution, you may need to refer to the source code of the SRN. The SRN source code identifies the program or procedure that produced the SRN. SRN source codes include the following:

- A: The SRN is from a steady number in the control (operator) panel display.
- B: The SRN is from a MAP (problem isolation procedure) callout.
- C: The SRN was due to a missing resource at configuration time.
- D: The SRN is from a diagnostic test after complete isolation testing.
- E: The SRN is from a POST failure.
- F: The SRN is from a diagnostic test after partial isolation testing.
- G: The SRN is from the Error Log Analysis program.
- H: The SRN is from a diagnostic message after an 888 sequence.
- J: The SRN is from built-in ROM diagnostics.
- K: The SRN is from offline diagnostics.

For more information, refer to the “List of service request numbers” on page 533.

List of progress codes

The following progress codes (or checkpoints) represent various processes that occur during initial program load (IPL). The list of progress codes is in numeric order. A general description of the process represented by the progress code appears beside each number (or range of numbers). Progress codes are 8-characters long, unless otherwise specified.

For information about using this list of progress codes and about progress codes in general, see “Using progress codes” on page 837.

Use the following list to find information about specific progress codes. The first column represents the first 4 characters of the 8 character progress code, unless otherwise specified. The second column describes the progress code and links to information that includes one or more tables. If you do not find the progress code that you are looking for in this list, ask your next level of support for assistance.

Progress codes:	Refer to these topics:
4-character codes (those that begin with a space character, a zero, or a two)	“AIX IPL progress codes” on page 820
BCxx (4 characters)	“(BCxx) Base motherboard controller progress codes” on page 789
C1xx	“Service processor progress codes” on page 788

List of progress codes

Progress codes:	Refer to these topics:
C2xx	“(C2xx) Virtual service processor progress codes” on page 795
C3yx, C500, C5yx, C600, C6xx	“IPL status progress codes” on page 797
C700	“(C700) Server firmware IPL status progress codes” on page 801
C900	“(C900) IPL status progress codes” on page 802
CAxx	“(CAxx) Partition firmware progress codes” on page 803
Dxxx (4 characters)	“(Dxxx, Exxx) System firmware progress codes for Models A50 and 185 only” on page 810
D1xx	“Service processor progress codes”
D2xx	“(D200) Partition status progress codes” on page 818
D6xx	“(D6xx) General status progress codes” on page 819
D9xx	“(D9xx) General status progress codes” on page 820
Exxx (4 characters)	“(Dxxx, Exxx) System firmware progress codes for Models A50 and 185 only” on page 810

Service processor progress codes

Service processor progress codes are typical reference codes that occur during the initial program load (IPL) of the server. For more information, click the following link that corresponds to the progress code that you want to find. If you suspect a problem, contact your next level of support for assistance.

The tables for the service processor progress codes use the following format:

- The first column, Progress Code, contains characters that represent a particular action that the service processor performs to initialize your server.
- The second column, Description/ Action, describes the type of initialization being performed.
- The third column, Failing Item, offers instructions for recovering from a hang on a progress code. Click the link in this column to view the service actions only when you experience a hang condition on a progress code. A hang conditions exists when the code in the control panel display does not change for several minutes and the service processor appears to be stalled (hung). In some cases, you might notice that the server does not power down normally.

For more information about using progress codes, see “Using progress codes” on page 837.

Use the following list to display the different types of service processor progress codes.

“(C1xx) Service processor progress codes (checkpoints)” on page 789

“(D1xx) Service processor progress codes (service processor dump and platform dump)” on page 816

“(D1xx) Service processor status progress codes” on page 817

(BCxx) Base motherboard controller progress codes

Table 1. (BCxx) Base motherboard controller progress codes

BMC Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Items
BC00	Set up the system clock and voltage regulator module (VRM)	BPCHANG
BC01	Set system clock spread spectrum	BPCHANG
BC02	Set system clock spread spectrum	BPCHANG
BC03	Collection of VPD from the processor and U3 module	BPCHANG
BC04	The PLL and the internal clock on the U3 module are being set up	BPCHANG
BC05	The PLL and the internal clock on the U3 module are being set up	BPCHANG
BC06	Initialization of the Super I/O chip	BPCHANG
BC07	Boot block recover set up of the Super I/O chip	BPCHANG
BC08	Set up mode rings on the processor	BPCHANG
BC09	Set up the elastic interface	BPCHANG
BC0A	Tune the elastic interface	BPCHANG
BC0B	Receiver initial align pattern	BPCHANG
BC0C	Receiver initial align pattern	BPCHANG
BC0D	Set up the fuse rings	BPCHANG
BC0E	Set up the fuse rings	BPCHANG
BC0F	More tuning of the elastic interface	BPCHANG

(C1xx) Service processor progress codes (checkpoints)

C1xx progress codes, or checkpoints, offer information about the initialization of both the service processor and the server.

Table 1. (C1xx) Service processor progress codes (checkpoints)

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Items
C10010xx	Pre-standby	FSPSPC1
C1001014	Pre-standby	FSPSPC1
C1001020	Pre-standby	FSPSPC1
C1001F00	Pre-standby: starting initial transition file	FSPSPC1

C1xx

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Items
C1001F0D	<p>Pre-standby: discovery completed in initial transition file.</p> <p>While this system displays this checkpoint, the service processor card reads the system vital product data (VPD). The service processor must complete reading the system VPD before the system displays the next progress code (checkpoint). Reading the system VPD might take as long as 15 minutes on systems with maximum configurations or many disk drives. Wait at least 15 minutes for this checkpoint to change before you decide that the system is hung.</p> <p>If you determine that the system is hung at this checkpoint, do the following:</p> <ul style="list-style-type: none"> • On model 285, 520, or 9131-52A, reseat the VPD card. See Exchanging the VPD card in the model 520 and 285 for more information. • On all other models (or if the preceding action did not resolve the problem), use the specified action in the Failing Item column. 	FSPSPC1
C1001F0F	Pre-standby: waiting for standby synchronization from initial transition file	FSPSPC1
C1001FFF	Pre-standby: completed initial transition file	FSPSPC1
C1009x02	Hardware object manager: (HOM): build cards IPL step in progress	FSPSPC1
C1009x04	Hardware object manager: (HOM): build processors IPL step in progress	FSPSPC1
C1009x06	Hardware object manager: (HOM): build chips IPL step in progress	FSPSPC1
C1009x08	Hardware object manager: (HOM): build HOM IPL step in progress	FSPSPC1
C1009x10	Hardware object manager: (HOM): configure HOM IPL step in progress	FSPSPC1
C1009x12	Hardware object manager: (HOM): initialize HOM IPL step in progress	FSPSPC1
C1009x18	Hardware object manager: (HOM): validate HOM IPL step in progress	FSPSPC1
C1009x1B	GARD IPL step in progress	FSPSPC1
C1009x20	Get LBIST values IPL step in progress	FSPSPC1
C1009x23	Clock test IPL step in progress	FSPSPC1
C1009x28	Frequency control IPL step in progress	FSPSPC1
C1009x30	Initialize JTAG IPL step in progress	FSPSPC1
C1009x38	Mask attentions IPL step in progress	FSPSPC1
C1009x40	CEC flush IPL step in progress	FSPSPC1
C1009x48	Scan interface basic assurance tests (SIBATs) IPL step in progress	FSPSPC1
C1009x50	LBIST IPL step in progress	FSPSPC1
C1009x58	ABIST IPL step in progress	FSPSPC1
C1009x60	Asset protection IPL step in progress	FSPSPC1
C1009x68	Wire test IPL step in progress	FSPSPC1
C1009x70	Memory size IPL step in progress	FSPSPC1
C1009x78	Long scan initialization IPL step in progress	FSPSPC1
C1009x80	Start clocks IPL step in progress	FSPSPC1
C1009x88	SCOM initialization IPL step in progress	FSPSPC1
C1009x90	Run interface alignment procedure IPL step in progress	FSPSPC1
C1009x98	DRAM initialization IPL step in progress	FSPSPC1
C1009x9B	Random data test IPL step in progress	FSPSPC1
C1009xA0	Memory diagnostic IPL step in progress	FSPSPC1

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Items
C1009xA8	Dump initialization IPL step in progress	FSPSPC1
C1009xB0	Processor runtime diagnostics (PRD) IPL step in progress	FSPSPC1
C1009xB8	Enable machine check IPL step in progress	FSPSPC1
C1009xC0	Message passing wait in progress	FSPSPC1
C1009xC8	Message passing start in progress	FSPSPC1
C100C1xx	Power control	FSPSPC1
C100D009	Licensed Internal Code (system) running initialization	
C1011F00	Pre-standby: starting independent initial transition file (primary/secondary)	FSPSPC1
C1011FFF	Pre-standby: completed independent initial transition file (primary/secondary)	FSPSPC1
C1021F00	Pre-standby: starting primaryInitial transition file (primary)	FSPSPC1
C1021FFF	Pre-standby: completed primaryInitial transition file (primary)	FSPSPC1
C1031F00	Pre-standby: starting secondaryInitial transition file (secondary)	FSPSPC1
C1031FFF	Pre-standby: completed secondaryInitial transition file (secondary)	FSPSPC1
C103A1xx	Hypervisor code modules are being transferred to system storage	FSPSPC1
C103A2xx	Hypervisor data areas are being built in system storage	FSPSPC1
C103A3xx	Hypervisor data structures are being transferred to system storage	FSPSPC1
C103A400	Special purpose registers are loaded and instructions are started on the system processors	FSPSPC1
C103A401	Instructions have been started on the system processors	FSPSPC1
C103C2xx	The service processor is waiting for the batteries in the uninterruptible power supply (UPS) to charge prior to automatic power on-IPL. The last byte (xx) will increment while waiting on the UPS batteries.	FSPSPC1
C1041F00	Pre-standby: starting GardedInitial transition file (secondary)	FSPSPC1
C1041FFF	Pre-standby: completed GardedInitial transition file (secondary)	FSPSPC1
C104550x	The system reboot is waiting until the sibling service processor reaches the termination state. The last nibble (x) will toggle between 0 and 1.	
C10F2000	Halt: starting halt transition file	
C10F20FF	Halt: completing halt transition file	
C1112000	Power on: starting Standby-PowerOnTransition transition file (primary)	FSPSPC1
C11120FF	Power on: completed Standby-PowerOnTransition transition file (primary)	FSPSPC1
C1122000	Power on: starting PowerOnTransition-PoweredOn transition file (primary)	FSPSPC1
C11220FF	Power on: completed PowerOnTransition-PoweredOn transition file (primary)	FSPSPC1
C1132000	Power on: starting PoweredOn-IplTransition transition file (primary)	FSPSPC1
C11320FF	Power on: completed PoweredOn-IplTransition transition file (primary)	FSPSPC1
C116C2xx	System power interface is listening for power fault events from SPCN. The last byte (xx) will increment up from 00 to 1F every second while it waits.	FSPSPC1
C1202000	IPL transition: starting PowerOn/IplTransition-Ipl transition file (primary)	FSPSPC1
C12020FF	IPL transition: completed PowerOn/IplTransition-Ipl transition file (primary)	FSPSPC1
C12040xx	IPL lock time left until expiration. The last byte (xx) will count down as the IPL lock time runs out (FF-00).	FSPSPC1

C1xx

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Items
C1212000	IPL transition: starting Standard/IplTransition-Ipl transition file (primary)	FSPSPC1
C12120FF	IPL transition: completed Standard/IplTransition-Ipl transition file (primary)	FSPSPC1
C1222000	IPL transition: starting Flash/IplTransition-Ipl transition file (primary)	FSPSPC1
C12220FF	IPL transition: completed Flash/IplTransition-Ipl transition file (primary)	FSPSPC1
C1232000	IPL transition: starting PostDump/IplTransition-Ipl transition file (primary)	FSPSPC1
C12320FF	IPL transition: completed PostDump/IplTransition-Ipl transition file (primary)	FSPSPC1
C1242000	IPL transition: starting Idle/IplTransition-Ipl transition file (secondary)	FSPSPC1
C12420FF	IPL transition: completed Idle/IplTransition-Ipl transition file (secondary)	FSPSPC1
C1252000	IPL transition: starting Standby/IplTransition-Ipl transition file (secondary)	FSPSPC1
C12520FF	IPL transition: completed Standby/IplTransition-Ipl transition file (secondary)	FSPSPC1
C1382000	IPL: starting HostStarted-BcuSwitched transition file (primary)	FSPSPC1
C13820FF	IPL: completed HostStarted-BcuSwitched transition file (primary)	FSPSPC1
C1392000	IPL: starting BcuSwitched-Runtime transition file (primary)	FSPSPC1
C13920FF	IPL: completed BcuSwitched-Runtime transition file (primary)	FSPSPC1
C1402000	IPL: starting Normal/fast/Ipl-HostStarted transition file (primary)	FSPSPC1
C14020FF	IPL: completed Normal/fast/Ipl-HostStarted transition file (primary)	FSPSPC1
C1412000	IPL: starting Normal/slow/Ipl-HostStarted transition file (primary)	FSPSPC1
C14120FF	IPL: completed Normal/slow/Ipl-HostStarted transition file (primary)	FSPSPC1
C1422000	IPL: starting PostDump/Ipl-HostStarted transition file (primary)	FSPSPC1
C14220FF	IPL: completed PostDump/Ipl-HostStarted transition file (primary)	FSPSPC1
C1432000	IPL: starting Ipl-IdleTransition transition file (secondary)	FSPSPC1
C14320FF	IPL: completed Ipl-IdleTransition transition file (secondary)	FSPSPC1
C1442000	IPL: starting IdleTransition-Idle transition file (secondary)	FSPSPC1
C14420FF	IPL: completed IdleTransition-Idle transition file (secondary)	FSPSPC1
C1452000	IPL: starting Ipl-StandbyVerificationTransition transition file (secondary)	FSPSPC1
C14520FF	IPL: completed Ipl-StandbyVerificationTransition transition file (secondary)	FSPSPC1
C1462000	IPL: starting StandbyVerificationTransition-Standby transition file (secondary)	FSPSPC1
C14620FF	IPL: completed StandbyVerificationTransition-Standby transition file (secondary)	FSPSPC1
C1472000	IPL: starting normal/ipl-hoststarted transition file (master)	FSPSPC1
C14720FF	IPL: completing normal/ipl-hoststarted transition file (master)	FSPSPC1
C1482000	IPL: starting normal/backup/ipl-hoststarted transition file (secondary)	FSPSPC1
C14820FF	IPL: completing normal/backup/ipl-hoststarted transition file (secondary)	FSPSPC1
C162E402	If the system hangs on this checkpoint, the service processor is unable to collect VPD from the service processor.	SVCPROC
C162E403	If the system hangs on this checkpoint, the service processor is unable to collect VPD from the operator panel.	CTLNPL
C162E405	If the system hangs on this checkpoint, the service processor is unable to collect VPD from the VPD card.	CAPACTY

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Items
C162E408	If the system hangs on this checkpoint, the service processor is unable to collect VPD from the system backplane.	SYSBKPL
C162E410	If the system hangs on this checkpoint, the service processor is unable to collect VPD from a processor.	ANYPROC
C162E41C	If the system hangs on this checkpoint, the service processor is unable to collect VPD from the system.	CAPACTY
C162E41E	If the system hangs on this checkpoint, the service processor is unable to collect VPD from the enclosure.	SYSBKPL
C162E420	If the system hangs on this checkpoint, the service processor is unable to collect VPD from the IO backplane.	IO_HUB
C162E421	If the system hangs on this checkpoint, the service processor is unable to collect VPD from the IO hub.	IO_HUB
C162E430	If the system hangs on this checkpoint, the service processor is unable to collect VPD from SPCN.	SVCPROC
C162E4A0	If the system hangs on this checkpoint, the service processor is unable to collect VPD from the VSBP Starting Point.	CAPACTY
C162E4D0	If the system hangs on this checkpoint, the service processor is unable to collect VPD from memory DIMM.	MEMDIMM
C1645300	Starting a data synchronization operation between the primary service processor and the secondary service processor.	FSPSPC1
C1645301	Completed a data synchronization operation between the primary service processor and the secondary service processor.	FSPSPC1
C16453xx	A large data synchronization operation from the primary service processor to the secondary service processor is taking place. The last nibble (x) will toggle between 2 and 3.	FSPSPC1
C1802000	Termination: starting TerminationTransition-Termination transition file (primary)	FSPSPC1
C18020FF	Termination: completed TerminationTransition-Termination transition file (primary)	FSPSPC1
C1902000	Power off: starting Any-Dpo transition file (primary)	FSPSPC1
C19020FF	Power off: completed Any-Dpo transition file (primary)	FSPSPC1
C1912000	Power off: starting Any-PowerOffTransition transition file (primary)	FSPSPC1
C19120FF	Power off: completed Any-PowerOffTransition transition file (primary)	FSPSPC1
C1922000	Power off: starting PowerOffTransition-PoweredOff transition file (primary)	FSPSPC1
C19220FF	Power off: completed PowerOffTransition-PoweredOff transition file (primary)	FSPSPC1
C1C02000	Secondary VERIFICATION: starting Standby-StandbyVerification transition file (primary)	FSPSPC1
C1C020FF	Secondary verification: completed Standby-StandbyVerification transition file (primary)	FSPSPC1
C1C12000	Secondary verification: starting StandbyVerification-Standby transition file (primary)	FSPSPC1
C1C120FF	Secondary verification: completed StandbyVerification-Standby transition file (primary)	FSPSPC1
C1C22000	Secondary verification: starting Runtime-secondaryVerification transition file (primary)	FSPSPC1

C1xx

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Items
C1C220FF	Secondary verification: completed Runtime-secondaryVerification transition file (primary)	FSPSPC1
C1C32000	Secondary verification: starting secondaryVerification-Runtime transition file (primary)	FSPSPC1
C1C320FF	Secondary verification: completed secondaryVerification-Runtime transition file (primary)	FSPSPC1
C1C42000	Failover: starting failover/failover-termination transition file (master)	FSPSPC1
C1C420FF	Failover: completed failover/failover-termination transition file (master)	FSPSPC1
C1C52000	Failover: starting failover/backup/failover-termination transition file (secondary)	FSPSPC1
C1C520FF	Failover: completed failover/backup/failover-termination transition file (secondary)	FSPSPC1
C1C62000	Failover: starting failover/failover-standby transition file (master)	FSPSPC1
C1C620FF	Failover: completed failover/failover-standby transition file (master)	FSPSPC1
C1C72000	Failover: starting failover/backup/failover-standby transition file (secondary)	FSPSPC1
C1C720FF	Failover: completed failover/backup/failover-standby transition file (secondary)	FSPSPC1
C1CA2000	Connection monitoring failover: starting survfailover/backup/failover-runtime transition file (secondary)	FSPSPC1
C1CA20FF	Connection monitoring failover: completed survfailover/backup/failover-runtime transition file (secondary)	FSPSPC1
C1CB2000	Connection monitoring failover: starting survfailover/backup/failover-termination transition file (secondary)	FSPSPC1
C1CB20FF	Connection monitoring failover: completed survfailover/backup/failover-termination transition file (secondary)	FSPSPC1
C1CC2000	Connection monitoring failover: starting survfailover/backup/failover-standby transition file (secondary)	FSPSPC1
C1CC20FF	Connection monitoring failover: completed survfailover/backup/failover-standby transition file (secondary)	FSPSPC1
C1D22000	Dump: starting DumpTransition-Dump transition file (primary)	FSPSPC1
C1D2200D	Dump: calling hardware dump from DumpTransition-Dump transition file (master)	FSPSPC1
C1D2200F	Dump: calling main store dump from DumpTransition-Dump transition file (master)	FSPSPC1
C1D220FF	Dump: completed DumpTransition-Dump transition file (primary)	FSPSPC1
C1E82000	Exit error: starting ExitError/Ipl transition file (primary)	FSPSPC1
C1E820FF	Exit error: completed ExitError/Ipl transition file (primary)	FSPSPC1
C1E92000	Extract exit error: starting ExtractExitError/ipl transition file (master)	
C1E920FF	Extract exit error: completed ExtractExitError/ipl transition file (master)	
C1EA2000	Extract exit error: starting ExtractExitError/Backup/ipl transition file (secondary)	
C1EA20FF	Extract exit error: completed ExtractExitError/Backup/ipl transition file (secondary)	
C1F22000	Reset/reload: starting Reset/Ipl-LimitedRuntime transition file (primary)	FSPSPC1
C1F220FF	Reset/reload: completed Reset/Ipl-LimitedRuntime transition file (primary)	FSPSPC1

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Items
C1F32000	Reset/reload: starting Reset/Ipl-Runtime transition file (primary)	FSPSPC1
C1F320FF	Reset/reload: completed Reset/Ipl-Runtime transition file (primary)	FSPSPC1
C1F42000	Reset/reload: starting Reset/Ipl-TermTransition transition file (primary)	FSPSPC1
C1F420FF	Reset/reload: completed Reset/Ipl-TermTransition transition file (primary)	FSPSPC1

(C2xx) Virtual service processor progress codes

The C2xx progress codes indicate the progress of a partition IPL that is controlled by the virtual service processor. The virtual service processor can start a variety of operating systems, and some codes below do not apply to the IPL path of a particular operating system. The virtual service processor progress codes end after the environment setup completes and the specific operating system code continues the IPL.

Table 1. (C2xx) Virtual service processor progress codes

Progress Code	Function/Description
Early IPL initialization phase	
C200 1000	Partition auto-IPL during a platform IPL
C200 1010	IPL source
C200 1100	Adding partition resources to the secondary configuration
C200 11FF	Partition resources added successfully
C200 1200	Checking if IPL is allowed
C200 12FF	Partition IPL is allowed to proceed
C200 1300	Initializing ISL roadmap
C200 13FF	ISL roadmap initialized successfully
C200 1400	Initializing SP Communication Area #1
C200 1410	Initializing IPL parameters
C200 14FF	IPL parameters initialized successfully
Slot locking/Power on phase	
C200 2100	Power on SPCN racks
C200 2110	Issuing a rack power on command
C200 211F	Rack power on command successful
C200 21FF	SPCN rack power on phase complete
C200 2200	Begin acquiring slot locks
C200 22FF	End acquiring slot locks
C200 2300	Begin acquiring VIO slot locks
C200 23FF	End acquiring VIO slot locks
C200 2400	Begin powering on slots
C200 2450	Waiting for power on of slots to complete
C200 24FF	End powering on slots
C200 2500	Begin power on VIO slots
C200 25FF	End powering on VIO slots
IOP/IOA self-load phase	

C2xx

Progress Code	Function/Description
C200 3100	Validating ISL command parameters
C200 3111	Waiting for Bus object to become operational
C200 3112	Waiting for bus unit to become disabled
C200 3115	Waiting for creation of bus object
C200 3150	Sending ISL command to bus unit
C200 31FF	Waiting for ISL command completion
C200 32FF	ISL command complete successfully
C200 3300	Start SoftPOR of a failed ISL slot
C200 3350	Waiting for SoftPOR of a failed ISL slot
C200 33FF	Finish SoftPOR of a failed ISL slot
Load source device connection phase	
C200 4100	Waiting for load source device to enlist
C200 4200	Load source device has enlisted
C200 4300	Preparing connection to load source device
C200 43FF	Load source device is connected
Main store dump phase	
C200 5100	Preparing to initiate MSD phase
C200 5110	Loading SID 82 from load source device
C200 5115	MSD Phase I
C200 5120	Writing processor registers into SID 82
C200 5125	MSD Phase II
C200 5130	Writing main store pages to the load source device
C200 5133	Writing hardware page table to the load source device
C200 5135	MSD Phase III
C200 5140	Storing (final) SID 82 back to the load source device
C200 5150	Allocating the hardware page table
C200 51FF	MSD processing complete
Load system Licensed Internal Code from load source phase	
C200 6000	Locating First LID information on the load source
C200 6005	Clearing all partition main store
C200 6010	Locating Next LID information on the load source
C200 6020	Verifying LID information
C200 6030	Priming LP Configuration LID
C200 6040	Preparing to initiate LID load from load source
C200 6050	LP Configuration LID primed successfully
C200 6060	Waiting for LID load to complete
C200 6100	LID load completed successfully
C200 6200	Loading raw kernel memory image
C200 62FF	Loading raw kernel memory image completed successfully
Load source device disconnection phase	
C200 7100	Disconnecting from load source device

Progress Code	Function/Description
C200 7103	Removing load source device from LID Manager object
C200 7105	Preparing to remove the load source IP from the primary partition
C200 7110	Preparing to remove the load source IOP from the primary partition
C200 7120	Non-load source IOP has been successfully removed from the primary partition
C200 7125	Load source IOP has been successfully removed from the primary partition
C200 7130	Calling fatal error on the Transport Manager bus unit object
C200 71FF	Load source is successfully disconnected
Start processors phase	
C200 8040	Begin transfer slot locks to partition
C200 8060	End transfer slot locks to partition
C200 8080	Begin transfer VIO slot locks to partition
C200 80A0	End transfer VIO slot locks to partition
C200 80FF	Hypervisor low level session manager object is ready
C200 8100	Initializing SP Communication Area #2
C200 8104	Loading data structures into main store
C200 8110	Initializing event paths
C200 8120	Starting processors
C200 8130	Begin associate of system ports
C200 8138	Associating system ports to the RPA partition
C200 813F	End associate of system ports
C200 81FF	Processors started successfully, now waiting to receive the continue acknowledgement from System Licensed Internal Code
C200 8200	Continue acknowledgement received from System Licensed Internal Code
C200 82FF	VSP IPL complete successfully

IPL status progress codes

A server that stalls during an initial program load (IPL) of the operating system indicates a problem with the operating system code or hardware configuration. In this case, your only service action is to call your next level of support. If the problem is in the operating system code or hardware configuration, exchanging any hardware FRU will not fix the problem.

Below is reference information that gives a quick overview of the IPL progress codes and the function associated with each.

Note:

- The following table contains the C6xx xxxx IPL status progress codes. Some of these codes can appear on your control panel or HMC display. Depending on the system activity and disk configuration the duration of time that each code is displayed can vary. Eventually the system will continue to the next progress code until the IPL status is complete, or if an error is detected an SRC other than a C6xx xxxx will be displayed.
- There are instances when multiple tasks might be happening at the same time, so the progress code on the panel may not reflect the code module having problems.

The mode of the IPL (A, B, or D) determines, in part, which status SRCs are displayed. The different types of IPL use different progress codes, so you will not see all of the progress codes in the table below when you perform an IPL.

C3yx, C500, C5yx, C600, C6xx

The table of IPL status progress codes uses the following format:

- The first column, Progress Code, contains characters that represent a particular action your server performs during initialization of the supported operating system.
- The second column, Function/Description, identifies the action or procedure that produced the progress code.

For more information about using progress codes, see “Using progress codes” on page 837.

Table 1. IPL status progress codes

Progress Code	Function/Description
C3yx xxxx	System Processor or Main Storage Diagnostic in progress
C5yx xxxx	Licensed Internal Code system hardware initialization
C500 C92B	Waiting for console device - error condition only if console not found
C6xx 1800	Licensed Internal Code SPCN setup
C600 39xx	The typical sequence for an A/B/C mode IPL is 3900, 3910, 3911 (warm IPL only), 3912 (warm IPL only), 3913, 3915, 3917, and then other System Licensed Internal Code IPL progress codes. The others are seen when an IOP flash update occurs, usually on a D mode and possibly on a side (source) switch between A and B or C.
C600 3900	SP transfer control of Bus 1 (BCU Switch) to Licensed Internal Code is Complete and Licensed Internal Code Machine Facilities component is initialized. IPL of Bus 1 is in progress.
C600 3910	Licensed Internal Code has initiated PCI Bus Reset to all Bus 1 devices except the SP
C600 3911	Licensed Internal Code has initiated self test of all Bus 1 devices except the SP
C600 3912	Licensed Internal Code is initiating IPL of the Load Source IOP, waiting for the IOP to signal internal reset complete (Immediate Status Acknowledge Bit set to '1')
C600 3913	Licensed Internal Code is initializing the Load Source IOP messaging functions
C600 3914	Licensed Internal Code has detected a Load Source IOP problem and is resetting the IOP, or the IOP has requested a reset after an internal Flash memory Licensed Internal Code update
C600 3915	Licensed Internal Code has initiated the Load Source IOP self-load
C600 3916	During self-load, the Load Source IOP signalled Licensed Internal Code that it is initiating an internal Flash Memory update or other critical function
C600 3917	The Load Source IOP has completed IPL of its operational load, Licensed Internal Code is waiting for the IOP to report its attached IO resources. This is the last progress code normally displayed regarding Load Source IPL
C600 4001	Static paging
C600 4002	Start limited paging, call LID manager
C600 4003	Initialize IPL/Termination (IT) data area / set up node address communication area (NACA) pointer
C600 4004	Check and update MSD SID
C600 4005	Initialize event management is executing
C600 4006	IPL all buses
C600 4007	Start SLID
C600 4008	Initialize I/O service
C600 4009	Initialize I/O machine
C600 4010	Initialize IDE (interactive device exerciser)
C600 4011	Initialize remote services

Progress Code	Function/Description
C600 4012	Initialize RMAC component data values
C600 4013	Initialize context management
C600 4014	Initialize RM (component) seize lock
C600 4015	Initialize MISR
C600 4016	Set time of day
C600 4017	Initialize RM (component) process management
C600 4018	Initialize error log
C600 4019	Re-initialize the service processor
C600 4020	Initialize machine services
C600 4021	Initialize performance data collector
C600 4022	Initialize event management
C600 4023	Create MI boundary manager tasks
C600 4024	Disable CPM
C600 4025	Initializes battery test
C600 4026	Hardware card checkout
C600 4027	Start integrated device exerciser (Type C IPL only)
C600 4028	Start DST
C600 4029	Make IPL task not critical
C600 4030	Free static storage
C600 4031	Destroy IPL task, DST has been started
C600 4033	Guest Partition Virtual I/O Initialization Complete
C600 4050	Storage management recovery is executing
C600 4051	Start LOG is executing
C600 4052	Trace table initialization is executing
C600 4053	Context rebuild is executing. Module called: #RCRBCTX.
C600 4054	Start Product Activity Log and APPN is executing
C600 4055	Authority recovery is executing
C600 4056	Journal recovery is executing
C600 4057	Data base recovery is executing
C600 4058	Journal synchronization is executing
C600 4059	Commit recovery is executing
C600 4060	Data base initialization is executing
C600 4061	Journal IPL clean up is executing
C600 4062	Commit initialization is executing
C600 4064	System Object Model® (SOM®) recovery is executing
C600 4065	Start operating system is executing
C600 4072	Storage Management Recovery is complete
C600 4073	Queueing was notified that full paging is available
C600 4074	Breakpoint Manager initialization phase 2 complete
C600 4075	Volume stats initialized
C600 4076	Lid Manager was notified that full paging is available

C3yx, C500, C5yx, C600, C6xx

Progress Code	Function/Description
C600 4077	Recovery directory structure created
C600 4078	Link loader was notified that full paging is available
C600 4079	Clean up SLIC install structures
C600 407A	Initialize database storage
C600 407B	Initialize IFS storage
C600 407C	HRI was notified that full paging is available
C600 407D	Authority was notified that full paging is available
C600 407E	Initialize I/O structures
C600 407F	Initialize cryptography structures
C600 4100	Searching for Load Source Candidate (D-mode only)
C600 4101	Opening media-file to install Licensed Internal Code service displays with proper National Language Version
C600 4102	Loading and linking from media-file to install Licensed Internal Code service displays with proper National Language Version
C600 4201	Storage management recovery
C600 4204	Synchronization of mirrored MSD.
C6nn 4205	Synchronization of mirrored data (where nn is percent complete).
C600 4240	Reclaim main storage
C600 4250	Storage management subset directory recovery
C600 4255	Defragmentation utility
C600 4260	Storage management directory recovery.
C600 4272	ASP overflow recovery
C600 4300	Static paging is available for the link/loader
C600 4301	Applying temporary PTFs. If the IPL is terminated at this point, the Licensed Internal Code might need to be installed again.
C600 4302	Applying modules. If the IPL is terminated at this point, the Licensed Internal Code might need to be installed again.
C600 4303	Temporarily applied PTFs have reached the static paging phase
C600 432A	Resolving references to run Mode A. The system can be safely terminated while this work is being done.
C600 432B	Resolving references to run Mode B. The system may be safely terminated while this work is being done.
C600 4330	Full paging is available; workstation HRI processing
C600 4331	Freeing unused nucleus pages
C600 4332	Permanently applying PTFs. If the IPL is terminated at this point, the Licensed Internal Code might need to be installed again.
The following progress codes can appear during an MSD IPL	
C6xx 4400	Main Storage Dump Manager started (where xx is the number of minutes elapsed waiting for DASD to report in.
C600 4401	Some DASD failed to report in
C600 4402	Storage Management Recovery started
C600 4403	Storage Management Recovery ended

Progress Code	Function/Description
C6nn 4404	Licensed Internal Code log started. If Auto Copy in progress, nn is the percent complete. Module called: MsdStartSf.
C600 4405	Dump auto copy completed successfully. Module called: MsdStartSf.
C600 4406	Shutdown/Programmed IPL started (MSD related). Module called: MsdStartSf, MsdInit.
The following are DST progress codes for attended IPLs	
C600 4500	Verifying network attributes
C600 4501	Looking for the console
C600 4504	Verifying system serial number
C600 4505	Verifying system type
C600 4506	Verifying system-unique ID
C600 4507	Starting 'before DST' DASD checker
C600 4508	Verifying system password (if DASD check OK; if not OK this is checked when IPLing past DST)
C600 4509	Starting DASD migration function (only if migrating)
C600 450A	Starting 'after DST' DASD checker (can happen twice)
The following are DST progress codes for unattended IPLs	
C600 4500	Verifying network attributes
C600 4502	Starting DST display task (SSP only)
C600 4503	Checking possible MRI on media (SSP only)
C600 4504	Verifying system serial number
C600 4505	Verifying system type
C600 4506	Verifying system-unique ID
C600 4508	Verifying system password (if DASD check OK)
C600 450A	Starting 'after DST' DASD checker
C600 4A57	Parallel database recovery and is at Pass 1
C600 4A60	Parallel database initialization is at Pass 1
C600 4B57	Parallel database recovery is at Pass 2
C600 4B60	Parallel database initialization is at Pass 2
C600 4C57	Parallel database recovery is at Pass 3
C600 4C60	Parallel database initialization is at Pass 3
C600 4F57	The system is recovering all database objects. This step can take several hours.
C600 4F60	The system is examining all objects during database initialization.

Note: At this point Licensed Internal Code initialization is complete, and the i5/OS operating system starts. All hardware is verified. Operating system initialization is complete when the sign-on screen displays on the console.

(C700) Server firmware IPL status progress codes

A server that stalls during an initial program load (IPL) of the server firmware indicates a problem with the server firmware code. Server firmware IPL status progress codes enable your service provider and next level of support to more easily identify the server firmware component causing the problem.

C700

If the C700 progress that you see is not C700 4091, your only service action is to collect information on words 3 and 4 of the SRC, and call your next level of support. For more information, see Collecting reference codes or Displaying error and event logs.

Note: If the problem is in the server firmware code, exchanging any hardware FRU will not fix the problem.

Table 1. (C700) Server firmware IPL status progress codes

Progress Code	Function/Description
C700 4091	The system power on has reached a standby state. If you performed a service action or recovery procedure, and C700 4091 is still displayed, activate the partition. Activating the partition changes the system to an operating state and clears the SRC.
C700 xxxx	If the system stalls during an initial program load (IPL) of the server firmware, a problem has occurred with the server firmware code. Exchanging any hardware FRU will not fix the problem. Collect information on words 3 and 4 of the SRC, and call your next level of support. For more information, see Collecting reference codes or Displaying error and event logs.

(C900) IPL status progress codes

As your server performs an IPL, the control panel displays progress codes that indicate the status of the IPL. Often, you can use these progress codes to help you perform problem analysis. The following list offers information on the IPL status progress codes that have a format of C9xxxxxx.

Table 1. (C900) IPL status progress codes

Progress Code	Function/Description
C900 2810	Reclaim machine context
C900 2820	Resolve system objects
C900 2825	Convert Work Control Block Table
C900 2830	System value object
C900 28C0	Prepare SPCF job
C900 28C5	Initialize system objects
C900 2910	Start system logging
C900 2920	Library and object information repository (OIR) cleanup
C900 2925	Verify POSIX** root directories
C900 2930	Database cross-reference
C900 2940	Console configuration
C900 2950	Install complex objects
C900 2960	Sign on processing
C900 2965	Software Management Services (SMS) initialization
C900 2967	Applying PTFs
C900 2968	IPL options
C900 2970	Database recovery part 1, journal recovery part 1
C900 2973	This recovery step attempts to perform any needed recovery for database files that were being changed, created or deleted when an abnormal system end occurred.

Progress Code	Function/Description
C900 2976	This recovery step verifies the object recovery list performs any needed recovery for journals and journal receivers.
C900 2978	This progress code displays after progress codes C9002A70 through C9002976 have been completed
C900 2980	Storage requirements
C900 2990	Performance adjustments
C900 29A0	System control block
C900 29B0	Spool initialization
C900 29C0	Work control block table
C900 2A80	Before starting system jobs
C900 2A85	Bringing up POSIX SAG
C900 2A87	POSIX SAG restart and signals initialization
C900 2A90	Starting system jobs
C900 2A95	Abnormal Work Control Block Table cleanup
C900 2AA0	Damage notification
C900 2AA1	This recovery step either rolls back or completes certain uncompleted database operations that were run under commitment control
C900 2AA2	This recovery completes certain journal operations that were in progress when the system ended processing
C900 2AA3	This recovery sends messages to QHST for database files that may have been damaged by a system end
C900 2AA3	This recovery sends messages to QHST for database files that may have been damaged by a system end
C900 2AA4	This progress code displays after progress codes C9002AA0 - C9002AA3 have been completed
C900 2AA5	Integrated File System/New File System (NFS) directory recovery
C900 2AAC	Integrated File System conversion
C900 2AB0	Database recovery part 2
C900 2AC0	Document Library Object (DLO) recovery
C900 2B10	Establish event monitors
C900 2B30	QLUS job
C900 2B40	Device configuration
C900 2C10	After system arbiter
C900 2C20	SNADS recovery
C900 2C25	ZMF component (Mail Enablement (OeDS) Framework) recovery
C900 2C40	Work Control Block Table cleanup
C900 2CF0	Reclaim storage
C900 2F00	IPL complete

(CAxx) Partition firmware progress codes

Partition firmware progress codes offer information about the progress of partition firmware as it is initializing. In some cases, a server might hang (or stall) at one of these progress codes without displaying an 8-character system reference code (SRC). Only during such a hang condition should you take any service action related to the progress code.

CAxx

The table of firmware progress codes uses the following format:

- The first column, Progress Code, contains characters that represent a particular action your server performs during initialization of firmware.
- The second column, Description/ Action, identifies the action or procedure that produced the progress code. For more information about using progress codes, see “Using progress codes” on page 837.
- The third column, Failing Item, offers instructions for recovering from a problem or continuing problem analysis. Click a link in this column to view the service actions if you experience a hang condition as previously described.

Notes:

1. If the control panel displays more than eight characters, use only the first eight characters to find the error in the table. Characters that display after the first eight represent a location code that assists you in diagnosing the problem.
2. Licensed programs frequently rely on network configuration, and system information stored in the Vital Product Data (VPD) on the control panel. If the Repair Action/Possible Failing FRU entry indicates that you should replace the control panel, swap the VPD module from the old control panel to the new one. If you need to replace the old VPD module, call technical support for recovery instructions. If recovery is not possible, notify the system owner that new keys for licensed programs may be required.

Table 1. (CAxx) Partition firmware progress codes

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
CA000000	Process control now owned by partition firmware	FWFLASH
CA000020	Checking firmware levels	FWFLASH
CA000030	Attempting to establish a communication link by using lpevents	FWFLASH
CA000032	Attempting to register lpevent queues	FWFLASH
CA000034	Attempting to exchange cap and allocate lpevents	FWFLASH
CA000038	Attempting to exchange virtual continue events	FWFLASH
CA000040	Attempting to obtain RTAS firmware details	FWFLASH
CA000050	Attempting to load RTAS firmware	FWFLASH
CA000060	Attempting to obtain open firmware details	FWFLASH
CA000070	Attempting to load open firmware	FWFLASH
CA000080	Preparing to start open firmware	FWFLASH
CA000090	Open firmware package corrupted (phase 1)	FWFLASH
CA0000A0	Open firmware package corrupted (phase 2)	FWFLASH
CA00D001	PCI probe process completed, create PCI bridge interrupt routing properties	FWFLASH
CA00D002	PCI adapter NVRAM hint created; system is rebooting	FWFLASH
CA00D003	PCI probing complete	FWPCI5
CA00D004	Beginning of install-console, loading GUI package	FWFLASH
CA00D008	Initialize console and flush queues	FWFLASH
CA00D00C	The partition firmware is about to search for an NVRAM script	NEXTLVL
CA00D00D	Evaluating NVRAM script	FWFLASH
CA00D010	First pass open firmware initialization complete; establish parameters for restart	FWFLASH
CA00D011	First pass open firmware initialization complete; control returned to initialization firmware	FWFLASH

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
CA00D012	Second pass open firmware initialization complete; control returned to initialization firmware	FWFLASH
CA00D013	Run-time open firmware initialization complete; control returned to initialization firmware	FWFLASH
CA00D020	The partition firmware is about to load and run the SLIC loader	FWFLASH
CA00E100	Unspecified partition firmware error In either the error log for the service processor or the error log in Service Focal Point (if the system has an Hardware Management Console (HMC) attached), look for SRCs that immediately precede this progress code. Perform the repair actions for the SRCs by starting with the most recent entry, and then working backwards until you resolve the problem.	
CA00E101	Create RTAS node	FWFLASH
CA00E102	Load/initialize RTAS	FWFLASH
CA00E105	Transfer control to operating system (normal boot) See Problems with loading and starting the operating system (AIX and Linux)	
CA00E10A	Load RTAS device tree	FWFLASH
CA00E10B	Set RTAS device properties	FWFLASH
CA00E130	Build device tree	FWFLASH
CA00E134	Create memory node	FWFLASH
CA00E135	Create HCA node	FWFLASH
CA00E136	Create BSR node	FWFLASH
CA00E138	Create options node	FWFLASH
CA00E139	Create aliases node and system aliases	FWFLASH
CA00E13A	Create packages node	FWFLASH
CA00E140	Loading operating system See Problems with loading and starting the operating system (AIX and Linux)	
CA00E149	Create boot mgr node	FWFLASH
CA00E14C	Create terminal emulator node	FWFLASH
CA00E14D	Load boot image See Problems with loading and starting the operating system (AIX and Linux)	
CA00E150	Create host (primary) PCI controller node	FWFLASH
CA00E151	Probing PCI bus	FWPCI5
CA00E152	Probing for adapter FCODE; evaluate if present	FWPCI5
CA00E153	End adapter FCODE probing and evaluation	FWPCI5
CA00E154	Create PCI bridge node	FWPCI5
CA00E155	Probing PCI bridge secondary bus	FWPCI5
CA00E156	Create plug-in PCI bridge node	FWPCI5

CAxx

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
CA00E15B	Transfer control to the operating system (service mode boot) See Problems with loading and starting the operating system (AIX and Linux)	
CA00E15F	Adapter VPD evaluation	FWPCI5
CA00E170	Start of PCI bus probe	FWPCI5
CA00E172	First pass PCI device probe	FWPCI5
CA00E174	Establishing host connection	FWHOST
CA00E175	BootP request	FWHOST
CA00E176	TFTP file transfer See Problems with loading and starting the operating system (AIX and Linux)	
CA00E177	Transfer failure due to TFTP error condition See Problems with loading and starting the operating system (AIX and Linux)	
CA00E17B	Processor clock speed measurement	NEXTLVL
CA00E199	The partition is rebooting to enact changes that were specified in the ELF header of the boot image See Problems with loading and starting the operating system (AIX and Linux)	
CA00E19A	NVRAM auto-boot? variable not found - assume FALSE	1. Reboot the partition 2. Reboot the system 3. FWFLASH
CA00E19B	NVRAM menu? variable not found - assume FALSE	1. Reboot the partition 2. Reboot the system 3. FWFLASH
CA00E19D	Create NVRAM node	1. Reboot the partition 2. Reboot the system 3. FWFLASH
CA00E1A0	User requested boot to SMS menus by using keyboard entry	FWFLASH
CA00E1A1	User requested boot to open firmware prompt by using keyboard entry	FWFLASH
CA00E1A2	User requested boot using default service mode boot list by using keyboard entry	FWFLASH
CA00E1A3	User requested boot using customized service mode boot list by using keyboard entry	FWFLASH
CA00E1A4	User requested boot to SMS menus by using the Hardware Management Console or a service processor command	FWFLASH
CA00E1A5	User requested boot to open firmware prompt by using the HMC or a service processor command	FWFLASH
CA00E1A6	User requested boot using default service mode boot list by using the HMC or a service processor command	FWFLASH

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
CA00E1A7	User requested boot using customized service mode boot list by using the HMC or a service processor command	FWFLASH
CA00E1AA	System boot check for NVRAM settings	1. Reboot the partition 2. Reboot the system 3. FWFLASH
CA00E1AB	System booting using the default service mode boot list	FWFLASH
CA00E1AC	System booting using the customized service mode boot list	FWFLASH
CA00E1AD	System booting to the operating system	FWFLASH
CA00E1AE	System booted to SMS multiboot menu by using NVRAM settings	FWMBOOT
CA00E1AF	System booted to SMS utilities menu by using NVRAM settings	FWFLASH
CA00E1B1	System booting with HMC or hosting-partition directed boot-device repair	FWFLASH
CA00E1B2	XOFF received, waiting for XON	FWVTHMC
CA00E1B3	XON received This checkpoint flashes by so quickly on the control panel that you cannot see it. The progress indicators log may contain a reference to it, which you can access by using the ASMI menus. If a partition hangs on this checkpoint, perform the action specified in the Failing Item column.	FWPCI5
CA00E1B4	HMC or hosting-partition directed boot-string did not load an operating system repair	NEXTLVL
CA00E1B5	Checking for iSCSI disk aliases	FWPCI5
CA00E1D0	Create PCI SCSI node	FWPCI5
CA00E1D3	Create SCSI block device node (SD)	FWPCI5
CA00E1D4	Create SCSI byte device node (ST)	FWPCI5
CA00E1DC	Dynamic console selection	FWCONS
CA00E1DD	A graphics adapter was selected as the firmware console, but the USB keyboard is not attached. Ensure that a USB keyboard is attached to a USB port that is assigned to the partition.	FWCONS
CA00E1F0	Start out-of-box experience	FWFLASH
CA00E1F1	Start self-test sequence on one or more devices	FWFLASH
CA00E1F2	Power on password prompt	FWPWD
CA00E1F3	Privileged-access password prompt	FWPWD
CA00E1F4	End self-test sequence on one or more boot devices; begin system management services	FWFLASH

CAxx

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
CA00E1F5	Build boot device list <ol style="list-style-type: none"> 1. If the system or partition hangs on this checkpoint, look for a location code in the operator panel. If a location code is being displayed when the hang occurs, suspect the device at that location code. 2. If the device at that location code is good, suspect the other bootable devices that are on the same bus, such as an IDE bus. 3. If no location codes are displayed, remove all of the bootable devices in the system or partition. Add them back in one at a time, and reboot the partition after each one is added. This should isolate the device that is causing the hang; replace it. 4. If step three does not isolate the problem, go to PFW1548. 	
CA00E1F6	Determine boot device sequence	FWFLASH
CA00E1F7	No boot image located See Problems with loading and starting the operating system (AIX and Linux)	
CA00E1F8	Build boot device list for SCSI adapters (displays the location code of the SCSI adapter being scanned)	FWPCI5
CA00E1F9	Build boot device list for Fibre Channel adapters (displays the location of the SAN adapter being scanned)	FWPCI5
CA00E1FA	Building device list for SCSI adapters (displays the device ID and device LUN of the devices being scanned)	FWPCI5
CA00E1FB	Scan SCSI bus for attached devices	FWSCSIH
CA00E1FC	Build boot device list for SSA adapters (displays the location code of the SSA adapter being scanned)	FWPCI5
CA00E1FE	Building device list for Fibre Channel (SAN) adapters (displays the WWPN of the fibre-channel adapter being scanned) <ol style="list-style-type: none"> 1. If the system or partition hangs on this checkpoint, removed the fibre channel adapter(s) from the system or partition and reboot. If the problem is resolved, replace the fibre channel adapter that was causing the hang. 2. If step 1 does not isolate the problem, go to PFW1548. 	
CA00E1FF	Build device list for Fibre Channel (SAN) adapters (displays the LUN for each device being scanned) <ol style="list-style-type: none"> 1. If the system or partition hangs on this checkpoint, removed the fibre channel adapter(s) from the system or partition and reboot. If the problem is resolved, replace the fibre channel adapter that was causing the hang. 2. If step 1 does not isolate the problem, go to PFW1548. 	
CA00E440	Validate NVRAM, initialize partitions as needed	<ol style="list-style-type: none"> 1. Reboot the partition 2. Reboot the system 3. FWFLASH
CA00E441	Generate /options node NVRAM configuration variable properties	<ol style="list-style-type: none"> 1. Reboot the partition 2. Reboot the system 3. FWFLASH

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
CA00E442	Validate NVRAM partitions	1. Reboot the partition 2. Reboot the system 3. FWFLASH
CA00E443	Generate NVRAM configuration variable dictionary words Suspect a platform firmware problem if this error code persists.	1. Reboot the partition 2. Reboot the system 3. FWFLASH
CA00E701	Create memory VPD	FWFLASH
CA00E800	Initialize gdata for control panel	FWFLASH
CA00E810	Initializing ioconfig pdfs	FWFLASH
CA00E820	Initializing lpevent	FWFLASH
CA00E830	Initializing event scan	FWFLASH
CA00E840	Initializing hot plug	FWFLASH
CA00E843	Initializing interface/aix access	FWFLASH
CA00E850	Initializing dynamic reconfiguration	FWFLASH
CA00E860	Initializing sensors	FWFLASH
CA00E865	Initializing VPD	FWFLASH
CA00E870	Initializing pdfs memory manager	FWFLASH
CA00E875	Initializing rtas_last_error	FWFLASH
CA00E876	Initializing rtas_error_inject	FWFLASH
CA00E877	Initializing dump interface	FWFLASH
CA00E885	Initializing set-power-level	FWFLASH
CA00E886	Initializing exit2c	FWFLASH
CA00E887	Initialize gdata for activate_firmware	FWFLASH
CA00E890	Starting to initialize open firmware	FWFLASH
CA00E891	Finished initializing open firmware	FWFLASH
CA00EAA1	Probe PCI-PCI bridge bus	FWPCI5
CA060203	An alias was modified or created	FWFLASH
CA26ttss	Waiting for lpevent of type tt and subtype ss Reboot the system.	FWFLASH
CA2799FD	The service processor is receiving a server firmware update module This checkpoint alternates in the control panel with CA2799FF. This pair of checkpoints might stay in the display for up to 30 minutes with no other indication of activity. Do not assume that the system is hung until ONLY CA2799FD has remained in the control panel for at least 30 minutes with no other indication of activity. If the system hangs on CA2799FD (it is NOT alternating with CA2799FF), power off the system and reboot from the permanent side. Reject the image on the temporary side.	

CAxx

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
CA2799FF	<p>The service processor is writing a server firmware update module.</p> <p>This checkpoint alternates in the control panel with CA2799FD. This pair of checkpoints might stay in the display for up to 30 minutes with no other indication of activity. Do not assume that the system is hung until ONLY CA2799FF has remained in the control panel for at least 30 minutes with no other indication of activity.</p> <p>If the system hangs on CA2799FF (it is NOT alternating with CA2799FD), power off the system and reboot from the permanent side. Reject the image on the temporary side.</p>	

CF00 xxxx Linux Kernel Progress Codes

Table 1. (CF00) xxxx Linux kernel boot progress codes

Attention Code	Function/Description	Repair Action/Possible Failing FRU
CF000012	Set up initialization	If the system or partition does not progress past this code, contact your Linux provider.
CF000015	Set up is complete	If the system or partition does not progress past this code, contact your Linux provider.
CF000020	External interrupt controller server initialization	If the system or partition does not progress past this code, contact your Linux provider.
CF000021	External interrupt controller server complete	If the system or partition does not progress past this code, contact your Linux provider.
CF000100	Memory manager initialization	If the system or partition does not progress past this code, contact your Linux provider.
"Linux ppc64"	Indicates that the kernel has finished booting. "Linux ppc64" is an example; this text may be different based on the Linux vendor and the release.	If the system or partition does not progress past this code, contact your Linux provider.

(Dxxx, Exxx) System firmware progress codes for Models A50 and 185 only

Table 1. (Dxxx, Exxx) System firmware progress codes for Models A50 and 185 only

Attention: This table lists the 4-character system firmware progress codes for Models A50 and 185 only. If you are looking up an 8-character SRC, such as "AA00E1F3", enter all eight characters in the search field.

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Items
D001	PCI probe process complete; create PCI interrupt routing properties	PFW1548
D002	PCI adapter NVRAM hint created; system is rebooting	FWPCI5
D003	PCI probing complete	PFW1548

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Items
D004	Starting install-console; loading GUI package	PFW1548
D008	Initialize the console and flush the queues	PFW1548
D00D	Evaluating NVRAM script	PFW1548
D010	First pass of open firmware initialization complete; establish parameters for restart.	PFW1548
D011	First pass of open firmware initialization complete; control returned to initialization firmware	PFW1548
D012	Second pass of open firmware initialization complete; control returned to initialization firmware	PFW1548
D099	Starting system information validation utility	PFW1548
D100	<p>The system serial number was found to be blank. On the console, text that describes the requested information follows the progress code, similar to the following example:</p> <p>D100: Enter the serial number (Must be 7 characters)</p> <p>After you enter the serial number, the console displays a confirmation prompt that includes the serial number that you just entered. The prompt also asks if you want to accept the serial number, similar to the following example:</p> <p>Accept number? (Enter 'y' or 'Y' to accept)</p>	<p>Enter a valid serial number. You can edit the number by using the backspace and delete keys. If the prompt continues to appear after you enter the number, contact your service representative for assistance.</p>
D102	<p>The system type number (machine type) was found to be blank. On the console, text that describes the requested information follows the progress code, similar to the following example:</p> <p>D102: Enter the type number (Must be 4 characters)</p> <p>After you enter the type number, the console displays a confirmation prompt that includes the type number that you just entered. The prompt also asks if you want to accept the type number, similar to the following example:</p> <p>Accept number? (Enter 'y' or 'Y' to accept)</p>	<p>Enter a valid type number. You can edit the number by using the backspace and delete keys. If the prompt continues to appear after you enter the number, contact your service representative for assistance.</p>
D104	<p>The system model number (machine type and model) was found to be blank. On the console, text that describes the requested information follows the progress code, similar to the following example:</p> <p>D104: Enter the model number (Must be 3 characters)</p> <p>After you enter the model number, the console displays a confirmation prompt that includes the model number that you just entered. The prompt also asks if you want to accept the model number, similar to the following example:</p> <p>Accept number? (Enter 'y' or 'Y' to accept)</p>	<p>Enter a valid system model number. You can edit the number by using the backspace and delete keys. If the prompt continues to appear after you enter the number, contact your service representative for assistance.</p>
D106	<p>The machine universally unique ID (UUID) was found to be blank. A new value is calculated and the field is updated.</p>	<p>There is no repair action for this checkpoint. If the checkpoint continues to appear on subsequent system power-on cycle, contact your next level of support for assistance.</p>

Dxxx, Exxx

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Items
D108	The system firmware has not established whether this system has an IBM logo yet. On the console, text that describes the requested information follows this progress code, similar to the following example: D108: IBM logo'ed product? (1=Yes, 2=No)	PFW1548
D5BB	This is a delay before booting the operating system to give an operator the opportunity to use a keystroke override to modify the boot behavior. A countdown is displayed to indicate the time remaining before the boot proceeds.	PFW1548
E101	Create RTAS node	PFW1548
E102	Load and initialize RTAS	PFW1548
E105	Transfer control to operating system (normal mode boot)	PFW1548
E10A	Load RTAS device tree	PFW1548
E10B	Set RTAS device properties	PFW1548
E130	Build device tree	PFW1548
E134	Create memory node	PFW1548
E138	Create options node	PFW1548
E139	Create aliases node and system aliases	PFW1548
E13A	Create packages node	PFW1548
E140	Loading operating system	PFW1548
E141	Synchronize operating system bootlist with management module bootlist	PFW1548
E142	Management module bootlist Set from operating system bootlist	PFW1548
E143	Operating system bootlist set from management module bootlist	PFW1548
E149	Create boot manager node	PFW1548
E14A	Build vital product data-to-operating system lookup table	PFW1548
E14C	Create terminal emulator node	PFW1548
E14D	Load boot image. See Problems with loading and starting the operating system (AIX and Linux)	PFW1548
E150	Create host (primary) PCI controller node	PFW1548
E151	Probing PCI bus	FWPCI5
E152	Probing for adapter FCODE; evaluate if present	FWPCI5
E153	End adapter FCODE probing and evaluation	FWPCI5
E154	Create PCI bridge node	FWPCI5
E155	Probing PCI bridge secondary bus	FWPCI5
E158	Reserved	NEXTLVL
E15B	Transfer control to operating system (service mode boot) See Problems with loading and starting the operating system (AIX and Linux)	PFW1548
E15F	Adapter VPD evaluation	FWPCI5

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Items
E170	Beginning of PCI bus probe	FWPCI5
E172	First pass of PCI device probe	FWPCI5
E174	Establishing host connection	FWHOST
E175	Bootp request	FWHOST
E176	TFTP file transfer See Problems with loading and starting the operating system (AIX and Linux)	
E177	Transfer failure due to TFTP error condition See Problems with loading and starting the operating system (AIX and Linux)	
E17B	CPU clock speed measurement	NEXTLVL
E191	Create ISA reserved node	PFW1548
E19A	NVRAM auto-boot? variable not found - assume FALSE	PFW1548
E19B	NVRAM menu? variable not found - assume FALSE	PFW1548
E19D	Create NVRAM node	PFW1548
E19E	Real-time-clock initialization	PFW1548
E1A0	User requested boot to SMS menus via keyboard entry	PFW1548
E1A1	User requested boot to open firmware prompt via keyboard entry	PFW1548
E1A2	User requested boot using default service mode boot list via keyboard entry	PFW1548
E1A3	User requested boot using customized service mode boot list via keyboard entr	PFW1548
E1A4	User requested boot to SMS menus via service processor command	PFW1548
E1A5	User requested boot to open firmware prompt via service processor command	PFW1548
E1A6	User requested boot using default service mode boot list via service processor command	PFW1548
E1A7	User requested boot using customized service mode boot list via service processor command	PFW1548
E1A8	System booting to open firmware prompt	PFW1548
E1A9	System booting to SMS menus	PFW1548
E1AA	System NVRAM settings during boot	PFW1548
E1AB	System booting using default service mode boot list	PFW1548
E1AC	System booting using customized service mode boot list	PFW1548
E1AD	System booting to operating system	PFW1548
E1AE	System booted to multiboot menu via NVRAM settings	FWMBOOT
E1AF	System booted to utilities menu via NVRAM settings	PFW1548
E1B1	Create serial node	PFW1548
E1B2	XOFF received - waiting for XON	FWCONS

Dxxx, Exxx

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Items
E1B3	XON received This checkpoint flashes by so quickly on the control panel that you cannot see it. If a partition hangs on this checkpoint, perform the action specified in the Failing Item column.	FWPCI5
E1B6	Reserved	NEXTLVL
E1BD	Reserved	NEXTLVL
E1C4	Create ISA timer chip node	PFW1548
E1C5	Create ISA Interrupt controller (PIC) node	PFW1548
E1C6	Create DMA node	PFW1548
E1D0	Create PCI SCSI node	FWPCI5
E1D3	Create SCSI block device node (SD)	FWPCI5
E1D4	Create SCSI byte device node (ST)	FWPCI5
E1DB	Reserved	NEXTLVL
E1DC	Reserved	FWCONS
E1F0	Start O. B. E.	PFW1548
E1F1	Begin selftest sequence on boot devices.	PFW1548
E1F2	Reserved	NEXTLVL
E1F3	Reserved	NEXTLVL
E1F4	End self-test sequence on boot devices; begin SMS.	PFW1548
E1F5	Build boot device list	PFW1548
E1F6	Determine boot device sequence	PFW1548
E1F7	No boot image located. See Problems with loading and starting the operating system (AIX and Linux)	
E1F9	Building boot device list for fibre-channel adapters. (The location of the SAN adapter being scanned is also displayed.)	FWPCI5
E1FC	Building boot device list for SSA adapters. (The location code of the SSA adapter being scanned is also displayed.)	FWPCI5
E1FD	E1FD and another progress code (Exxx) will alternate in the operator panel. The other code is where the error occurred.	PFW1548
E1FE	Building boot device list for fibre-channel adapters. (The WWPN of the SAN adapter being scanned is also displayed.)	PFW1548
E1FF	Building boot device list for fibre-channel adapters. (The WWPN of the SAN adapter being scanned is also displayed.)	PFW1548
E200	Master I2C initialization	PFW1548
E201	Flash image or RAM image CRC checksum is valid	PFW1548
E202	MPIC initialization	PFW1548
E203	Disabling TB	PFW1548
E204	CRC check of the image in RAM	PFW1548
E206	Reenable TB	PFW1548
E209	SIO/COM1/GPIO initialization	PFW1548
E20A	Loading 256K flash code into L2 cache	PFW1548

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Items
E20B	Reading boot mode	PFW1548
E20C	Master goes to PFW	PFW1548
E20D	Boot mode has been obtained	PFW1548
E20F	Executing from L2 cache	PFW1548
E210	Load and relocate the HIL	PFW1548
E211	CRC check of the image in flash RAM	PFW1548
E212	Getting CPU status and presence	PFW1548
E213	Memory initialization	PFW1548
E214	Pattern 1 memory test	PFW1548
E215	Pattern 2 memory test	PFW1548
E216	Clear memory	PFW1548
E217	Start HIL-base and SDR1-base	PFW1548
E218	Copying the set of flash RAM to memory	PFW1548
E219	Saving the DIMM service processor and the CPU status and presence	PFW1548
E21A	Executing code from memory	PFW1548
E21B	Load PFW into memory	PFW1548
E21C	Executing HT initialization	PFW1548
E21D	Executing PCI initialization	PFW1548
E21E	Execute I/O APIC test	PFW1548
E21F	Building the PFDS structure	PFW1548
E230	Waiting for EHCI USB controller to halt	PFW1548
E231	Waiting for EHCI USB controller reset operation to finish	PFW1548
E251	The adapter in PCI slot 1 is being detected	FWPCI6
E252	The adapter in PCI slot 2 is being detected	FWPCI6
E253	The adapter in PCI slot 3 is being detected	FWPCI6
E254	The adapter in PCI slot 4 is being detected	FWPCI6
E255	The adapter in PCI slot 5 is being detected	FWPCI6
E2B0	Reserved	NEXTLVL
E2B1	Reserved	NEXTLVL
E440	Validate NVRAM and initialize partitions as needed	PFW1548
E441	Generate /options node and NVRAM configuration variable properties	PFW1548
E442	Validate NVRAM partitions	PFW1548
E443	Generate NVRAM configuration variable dictionary words	PFW1548
E444	Clearing and rebuilding of NVRAM's CHRP region was initiated by the operator	PFW1548
E800	Starting the instantiation of RTAS	NEXTLVL
E810	Initializing IOCONFIG pfds	NEXTLVL
E820	Initializing lpevent	PFW1548
E830	Initializing event scan	PFW1548

Dxxx, Exxx

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Items
E840	Initializing hot plug	PFW1548
E842	Initializing check exception buffers	PFW1548
E843	Initializing interface/operating system access	NEXTLVL
E850	Initializing dynamic reconfiguration	PFW1548
E860	Initializing sensors	PFW1548
E865	Initializing vital product data	PFW1548
E870	Initializing pfds memory manager	PFW1548
E875	Initializing rtas_last_error	PFW1548
E876	Initializing rtas_error_inject	PFW1548
E880	Initializing I/O quiesce acknowledgment memory	PFW1548
E890	Initializing open firmware	NEXTLVL
EAA1	Probe PCI-PCI bridge bus	FWPCI5

(D1xx) Service processor progress codes (service processor dump and platform dump)

Service processor dump status codes use the format of D1yy1xxx, where

- yy indicates the type of data that is being dumped
- xxx is a counter that increments each time the server stores 4K of data

When these codes occur during a service processor dump or a platform dump, they appear in the control panel display.

Table 1. (D1xx) Service processor progress codes (service processor dump and platform dump)

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Items
D1001xxx	Dump error data	FSPSPD1
D1011xxx	Dump sai_header Hardware Management Console (HMC) file	FSPSPD1
D101C00F	No power off to allow debugging for CPU controls	FSPSPD1
D1021xxx	Dump sai_header directory	FSPSPD1
D1031xxx	Dump sai_header fips header	FSPSPD1
D1041xxx	Dump sai_header entry header	FSPSPD1
D1051xxx	Dump core file for failing component	FSPSPD1
D1061xxx	Dump all NVRAM	FSPSPD1
D1071xxx	Dump component trace for failing component	FSPSPD1
D1081xxx	Dump component data from /opt/p0	FSPSPD1
D1091xxx	Dump /opt/p1/**	FSPSPD1
D10A1xxx	Dump safety net trace: SND_LTT_TRACE	FSPSPD1
D10B1xxx	Dump safety net trace: SND_LTT_PROC	FSPSPD1
D10C1xxx	Dump safety net trace: SND_PRINTK_BUF	FSPSPD1
D10D1xxx	Dump safety net trace: SND_PRINTK_IDX	FSPSPD1
D10E1xxx	Dump safety net trace: SND_INSMOD_BUF	FSPSPD1
D10F1xxx	Dump safety net trace: SND_LTT_INTR	FSPSPD1

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Items
D1101xxx	Dump safety net trace: SND_FSP_TRACE	FSPSPD1
D1111xxx	Dump /opt/p0/*	FSPSPD1
D1121xxx	Dump /opt/p1/*	FSPSPD1
D1131xxx	Dump all traces	FSPSPD1
D1141xxx	Dump code version	FSPSPD1
D1151xxx	Dump all /opt/p3 except rtbl	FSPSPD1
D1161xxx	Dump pddcustomize -r command	FSPSPD1
D1171xxx	Dump registry -l command	FSPSPD1
D1181xxx	Dump all /core/core.* files	FSPSPD1
D1191xxx	Dump BDMP component trace (after dump if enough space)	FSPSPD1
D11A1xxx	Dump any state information before dumping starts	FSPSPD1
D1231xxx	Dump update dump headers	FSPSPD1
D1241xxx	Dump CRC1 calculation off	FSPSPD1
D1251xxx	Dump CRC1 calculation on	FSPSPD1
D1261xxx	Dump CRC2 calculation off	FSPSPD1
D1271xxx	Dump CRC2 calculation on	FSPSPD1
D1281xxx	Dump output the calculated CRC1 (sai_headers)	FSPSPD1
D1291xxx	Dump output the calculated CRC2 (data and data headers)	FSPSPD1
D12A1xxx	Jump to the position in dump directly after CRC1	FSPSPD1
D12B1xxx	Initialize the headers dump time and serial numbers	FSPSPD1
D12C1xxx	Display final SRC to panel	FSPSPD1
D12D1xxx	Remove /core/core.app.time.pid	FSPSPD1
D12E1xxx	Remove /core/core.*	FSPSPD1
D12F1xxx	Display beginning SRC to panel	FSPSPD1
D1301xxx	Turn off error log capture into dump	FSPSPD1
D1311xxx	Turn on error log capture into dump	FSPSPD1
D1321xxx	Store information about existing core files	FSPSPD1
D1381xxx	Invalidate the dump	FSPSPD1
D1391xxx	Check for valid dump sequence	FSPSPD1
D13A1xxx	Get dump identity sequence	FSPSPD1
D13B1xxx	Get dump length sequence	FSPSPD1
D1FF1xxx	Dump complete	FSPSPD1
D1xx3000 - D1xx3FFF	Platform dump status codes	FSPSPD1

(D1xx) Service processor status progress codes

D1xx reference codes, posted by the service processor, offer information about the state of the service processor during a power-off operation.

Table 1. (D1xx) Service processor status progress codes

D1xx

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Items
D1xx900C	Breakpoint set in CPU controls has been hit	FSPSPD1
D1xxB0FF	Request to initiate power-off program has been sent	FSPSPD1
D1xxC000	Indicates a message is ready to send to the server firmware to power off	FSPSPD1
D1xxC001	Waiting for the server firmware to acknowledge the delayed power off notification	FSPSPD1
D1xxC002	Waiting for the server firmware to send the power off message	FSPSPD1
D1xxC003	Server firmware handshaking is complete	FSPSPD1

(D200) Partition status progress codes

D200 xxxx SRCs are posted by the Virtual Service Processor (VSP) when powering down a partition.

Table 1. (D200) Partition status progress codes

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Items
D200A100	Received MSD SP attention	
D200A110	Received CPM SP attention	
D200A120	Received LL SP attention	
D200A130	Received RPA end-of-life event	
D200A200	Begin partition power down. SRC word 3 contains the reason for the power off. SRC word 3 power down reasons <ul style="list-style-type: none"> • 1: White button power down (also known as delayed power off) • 2: Partition requested power down • 3: Partition requested end of life • 4: System wide shutdown • 5: Attention link loader • 6: Attention MSD • 7: Panel function 3 requested • 8: Panel function 8 requested • 9: Panel function 22 requested • A: Panel function 34 requested 	
D200B050	Begin transfer slot locks to VSP	
D200B05F	End transfer slot locks to VSP	
D200B060	Begin transfer VIO slot locks to VSP	
D200B06F	End transfer VIO slot locks to VSP	
D200B070	Begin reset slots	
D200B077	Waiting for reset slots	
D200B07F	End reset slots	
D200B080	Begin reset VIO slots	
D200B08F	End reset VIO slots	
D200B090	Begin soft POR slots	
D200B097	Waiting soft POR slots	
D200B09F	End soft POR slots	

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Items
D200B100	Sending Hypervisor reset	
D200B1FF	Hypervisor reset successfully sent	
D200B200	Begin forced LP reset (after the 1 second timeout)	
D200B210	Send CSP/FSP soft processor reset command (word 3 processor ID, word 4 thread ID)	
D200B2FF	End forced LP reset	
D200B300	Closing Hypervisor events paths	
D200B310	Deactivating panel functions	
D200B3FF	Hypervisor reset complete successfully	
D200C100	Sending Hypervisor I/O reset	
D200C1FF	Hypervisor I/O reset sent successfully	
D200C200	Deallocating events	
D200C2FF	Hypervisor I/O reset complete successfully	
D200D100	Removing partition configuration resources	
D200D1FF	Partition resources removed successfully	
D200E050	Begin power off slots	
D200E057	Waiting power off slots	
D200E05F	End power off slots	
D200E060	Begin power off VIO slots	
D200E06F	End power off VIO slots	
D200E080	Begin release slot locks	
D200E08F	End release slot locks	
D200E090	Begin release VIO slot locks	
D200E09F	End release VIO slot locks	
D200E0A0	Begin unassociate of system ports	
D200E0A8	Unassociate system ports from an RPA partition	
D200E0AF	End unassociate of system ports	
D200E100	Power off SPCN racks	
D200E110	Issuing a rack power off command	
D200E120	Rack power off command complete successfully	
D200E1FF	SPCN racks powered off phase complete	

(D6xx) General status progress codes

The following table lists general status progress codes with a format of D6xx xxxx in numeric order. The xx after D6 in each progress code represents two hexadecimal numbers that further define the progress code.

Table 1. (D6xx) General status progress codes

Progress Code	Function/Description
D6xx 0298	Managed system power down started
D6xx 0299	Managed system power down status

D6xx

Progress Code	Function/Description
D6xx 430A	Operating system service partition power down status: indicates that a server firmware code update is in progress for the P-side (permanent) of the managed system. Your server may display this progress code for an extended period of time where the "xx" increments periodically. Allow the server to complete the processing. Do not interrupt this process.
D6xx 430B	Operating system service partition power down status: indicates that a server firmware code update is in progress for the T-side (temporary) of the managed system. Your server may display this progress code for an extended period of time where the "xx" increments periodically. Allow the server to complete the processing. Do not interrupt this process.
D600 43BA	Operating system service partition power down status: indicates that a server firmware code update is in progress to copy the server firmware from the T-side (temporary) of the managed system to the P-side (permanent). Your server may display this progress code for an extended period of time. Allow the server to complete the processing. Do not interrupt this process.
D6xx 0483	Power failed; delay timer is running
D6xx 0484	MI run in progress
D6xx 5500	Managed system power down status; attempting to delete information from the disk subsystem cache
D6xx 5501	Managed system power down status; indicates that the information from the disk subsystem cache was deleted successfully
D6xx 5502	Managed system power down status; indicates that the system failed to delete information from the disk subsystem cache
D6xx 5503	Managed system power down status, which indicates the information from the disk subsystem cache was deleted with qualified success

(D9xx) General status progress codes

The D9xx progress codes indicate the progress of powering-off a partition. Not all progress codes below apply to all operating systems.

Table 1. (D9xx) General status progress codes

Progress Code	Function/Description
D900 2740	Power off immediate
D900 2750	All subsystems ended
D900 2760	Device configuration shutdown
D900 2770	QLUS job ending
D900 2780	Close database cross-reference files
D900 2790	QSYSARB job ending
D900 27C0	System jobs are ending

AIX IPL progress codes

This section provides descriptions for the numbers and characters that display on the operator panel and descriptions of the location codes used to identify a particular item.

Note: The AIX IPL progress codes occur only when running AIX or booting standalone diagnostics. The codes do not occur on servers that run Linux or on Linux partitions.

Operator panel display numbers

This section contains a list of the various numbers and characters that display in the operator panel display. There are three categories of numbers and characters. The first group tracks the progress of the configuration program. The second group tracks the progress of the diagnostics. The third group provides information about messages that follow an 888 sequence.

AIX configuration program indicators

The numbers in this list display on the operator panel as the system loads the AIX operating system and prepares the hardware by loading software drivers.

Note: Some systems may produce 4-digit codes. If the leftmost digit of a 4-digit code is 0, use the three rightmost digits.

Progress code	Description/Action
2E6	The PCI Differential Ultra SCSI adapter or the Universal PCI Differential Ultra SCSI adapter being configured.
2E7	Configuration method unable to determine if the SCSI adapter type is SE or DE type.
440	9.1GB Ultra SCSI Disk Drive being identified or configured.
441	18.2 GB Ultra SCSI Disk Drive being identified or configured.
444	2-Port Multiprotocol PCI Adapter (ASIC) being identified or configured.
447	PCI 64-bit Fibre Channel Arbitrated Loop Adapter being configured.
458	36 GB DAT72 Tape Drive
459	36 GB DAT72 Tape Drive
45D	200 GB HH LTO2 Tape drive
500	Querying Standard I/O slot.
501	Querying card in Slot 1.
502	Querying card in Slot 2.
503	Querying card in Slot 3.
504	Querying card in Slot 4.
505	Querying card in Slot 5.
506	Querying card in Slot 6.
507	Querying card in Slot 7.
508	Querying card in Slot 8.
510	Starting device configuration.
511	Device configuration completed.
512	Restoring device configuration files from media.
513	Restoring basic operating system installation files from media.
516	Contacting server during network boot.
517	Mounting client remote file system during network IPL.
518	Remote mount of the root (/) and /usr file systems failed during network boot.
520	Bus configuration running.

AIX IPL progress codes

Progress code	Description/Action
521	/etc/init invoked cfgmgr with invalid options; /etc/init has been corrupted or incorrectly modified (irrecoverable error).
522	The configuration manager has been invoked with conflicting options (irrecoverable error).
523	The configuration manager is unable to access the ODM database (irrecoverable error).
524	The configuration manager is unable to access the config.rules object in the ODM database (irrecoverable error).
525	The configuration manager is unable to get data from a customized device object in the ODM database (irrecoverable error).
526	The configuration manager is unable to get data from a customized device driver object in the ODM database (irrecoverable error).
527	The configuration manager was invoked with the phase 1 flag; running phase 1 at this point is not permitted (irrecoverable error).
528	The configuration manager cannot find sequence rule, or no program name was specified in the ODM database (irrecoverable error).
529	The configuration manager is unable to update ODM data (irrecoverable error).
530	The savebase program returned an error.
531	The configuration manager is unable to access the PdAt object class (irrecoverable error).
532	There is not enough memory to continue (malloc failure); irrecoverable error.
533	The configuration manager could not find a configuration method for a device.
534	The configuration manager is unable to acquire database lock (irrecoverable error).
535	HIPPI diagnostics interface driver being configured.
536	The configuration manager encountered more than one sequence rule specified in the same phase (irrecoverable error).
537	The configuration manager encountered an error when invoking the program in the sequence rule.
538	The configuration manager is going to invoke a configuration method.
539	The configuration method has terminated, and control has returned to the configuration manager.
541	A DLT tape device is being configured.
542	7208-345 60 GB tape drive 7334-410 60 GB tape drive
549	Console could not be configured for the Copy a System Dump Menu.
551	IPL vary-on is running.
552	IPL vary-on failed.
553	IPL phase 1 is complete.
554	The boot device could not be opened or read, or unable to define NFS swap device during network boot.
555	An ODM error occurred when trying to vary-on the rootvg, or unable to create an NFS swap device during network boot.
556	Logical Volume Manager encountered error during IPL vary-on.
557	The root file system does not mount.
558	There is not enough memory to continue the system IPL.
559	Less than 2 MB of good memory are available to load the AIX kernel.
569	FCS SCSI protocol device is being configured (32 bits).

Progress code	Description/Action
570	Virtual SCSI devices being configured.
571	HIPPI common function device driver being configured.
572	HIPPI IPI-3 master transport driver being configured.
573	HIPPI IPI-3 slave transport driver being configured.
574	HIPPI IPI-3 transport services user interface device driver being configured.
575	A 9570 disk-array driver being configured.
576	Generic async device driver being configured.
577	Generic SCSI device driver being configured.
578	Generic commo device driver being configured.
579	Device driver being configured for a generic device.
580	HIPPI TCP/IP network interface driver being configured.
581	Configuring TCP/IP.
582	Configuring Token-Ring data link control.
583	Configuring an Ethernet data link control.
584	Configuring an IEEE Ethernet data link control.
585	Configuring an SDLC MPQP data link control.
586	Configuring a QLLC X.25 data link control.
587	Configuring a NETBIOS.
588	Configuring a Bisync Read-Write (BSCRW).
589	SCSI target mode device being configured.
590	Diskless remote paging device being configured.
591	Configuring an LVM device driver.
592	Configuring an HFT device driver.
593	Configuring SNA device drivers.
594	Asynchronous I/O being defined or configured.
595	X.31 pseudo-device being configured.
596	SNA DLC/LAPE pseudo-device being configured.
597	OCS software being configured.
598	OCS hosts being configured during system reboot.
599	Configuring FDDI data link control.
59B	FCS SCSI protocol device being configured (64 bits).
5C0	Streams-based hardware drive being configured.
5C1	Streams-based X.25 protocol being configured.
5C2	Streams-based X.25 COMIO emulator driver being configured
5C3	Streams-based X.25 TCP/IP interface driver being configured.
5C4	FCS adapter device driver being configured.
5C5	SCB network device driver for FCS being configured.
5C6	AIX SNA channel being configured.
600	Starting network boot portion of <code>/sbin/rc.boot</code> .
602	Configuring network parent devices.
603	<code>/usr/lib/methods/defsys</code> , <code>/usr/lib/methods/cfgsys</code> , or <code>/usr/lib/methods/cfgbus</code> failed.

AIX IPL progress codes

Progress code	Description/Action
604	Configuring physical network boot device.
605	Configuration of physical network boot device failed.
606	Running <code>/usr/sbin/ifconfig</code> on logical network boot device.
607	<code>/usr/sbin/ifconfig</code> failed.
608	Attempting to retrieve the <code>client.info</code> file with <code>tftp</code> . Note: Note that a flashing 608 indicates multiple attempt(s) to retrieve the <code>client_info</code> file are occurring.
609	The <code>client.info</code> file does not exist or it is zero length.
60B	18.2 GB 68-pin LVD SCSI Disk Drive being configured.
610	Attempting remote mount of NFS file system.
611	Remote mount of the NFS file system failed.
612	Accessing remote files; unconfiguring network boot device.
613	8 mm 80 GB VXA-2 tape device
614	Configuring local paging devices.
615	Configuration of a local paging device failed.
616	Converting from diskless to dataless configuration.
617	Diskless to dataless configuration failed.
618	Configuring remote (NFS) paging devices.
619	Configuration of a remote (NFS) paging device failed.
61B	36.4 GB 80-pin LVD SCSI Disk Drive being configured.
61D	36.4 GB 80-pin LVD SCSI Disk Drive being configured.
61E	18.2 GB 68-pin LVD SCSI Disk Drive being configured.
620	Updating special device files and ODM in permanent file system with data from boot RAM file system.
621	9.1 GB LVD 80-pin SCSI Drive being configured.
622	Boot process configuring for operating system installation.
62D	9.1 GB 68-pin LVD SCSI Disk Drive being configured.
62E	9.1GB 68-pin LVD SCSI Disk Drive being configured.
636	TURBOWAYS® 622 Mbps PCI MMF ATM Adapter.
637	Dual Channel PCI-2 Ultra2 SCSI Adapter being configured.
638	4.5 GB Ultra SCSI Single Ended Disk Drive being configured.
639	9.1 GB 10K RPM Ultra SCSI Disk Drive (68-pin).
643	18.2 GB LVD 80-pin SCA-2 connector SCSI Disk Drive being configured.
63A	See 62D.
63B	9.1 GB 80-pin LVD SCSI Disk Drive being configured.
63C	See 60B.
63D	18.2 GB 80-pin LVD SCSI Disk Drive being configured.
63E	36.4 GB 68-pin LVD SCSI Disk Drive being configured.
63F	See 61B.
640	9.1 GB 10K RPM Ultra SCSI Disk Drive (80-pin).
646	High-Speed Token-Ring PCI Adapter being configured.
64A	See 62E.

Progress code	Description/Action
64B	9.1 GB 80-pin LVD SCSI Disk Drive being configured.
64C	See 61E.
64D	18.2 GB LVD 80-pin Drive/Carrier being configured.
64E	36.4 GB 68-pin LVD SCSI Disk Drive being configured.
64F	See 61D.
650	SCSD disk drive being configured.
653	18.2 GB Ultra-SCSI 16-bit Disk Drive being configured.
655	GXT130P Graphics adapter being configured.
657	GXT2000P graphics adapter being configured.
658	PCI Fibre Channel Disk Subsystem Controller being identified or configured.
659	2102 Fibre Channel Disk Subsystem Controller Drawer being identified or configured.
660	2102 Fibre Channel Disk Array being identified or configured.
662	Ultra2 Integrated SCSI controller.
663	The ARTIC960RxD Digital Trunk Quad PCI Adapter or the ARTIC960RxF Digital Trunk Resource Adapter being configured.
664	32x (MAX) SCSI-2 CD-ROM drive being configured.
667	PCI 3-Channel Ultra2 SCSI RAID Adapter being configured.
669	PCI Gigabit Ethernet Adapter being configured.
66A	Keyboard/Mouse Attachment Card-PCI being configured.
66C	10/100/1000 Base-T Ethernet PCI Adapter.
66D	PCI 4-Channel Ultra-3 SCSI RAID Adapter.
66E	4.7 GB DVD-RAM drive.
674	ESCON [®] Channel PCI Adapter being configured.
677	PCI 32-bit Fibre Channel Arbitrated Loop Adapter being configured.
678	12 GB 4 mm SCSI tape drive
67B	PCI Cryptographic Coprocessor being configured.
682	20x (MAX) SCSI-2 CD-ROM Drive being configured.
689	4.5 GB Ultra SCSI Single Ended Disk Drive being configured.
68C	20 GB 4-mm Tape Drive being configured.
68E	POWER GXT6000P PCI Graphics Adapter.
690	9.1 GB Ultra SCSI Single Ended Disk Drive being configured.
69b	64-bit/66 MHz PCI ATM 155 MMF PCI adapter being configured.
69d	64-bit/66 MHz PCI ATM 155 UTP PCI adapter being configured.
6CC	SSA disk drive being configured.
700	A 1.1 GB 8-bit SCSI disk drive being identified or configured.
701	A 1.1 GB 16-bit SCSI disk drive being identified or configured.
702	A 1.1 GB 16-bit differential SCSI disk drive being identified or configured.
703	A 2.2 GB 8-bit SCSI disk drive being identified or configured.
704	A 2.2 GB 16-bit SCSI disk drive being identified or configured.
705	The configuration method for the 2.2 GB 16-bit differential SCSI disk drive is being run. If an irrecoverable error occurs, the system halts.

AIX IPL progress codes

Progress code	Description/Action
706	A 4.5 GB 16-bit SCSI disk drive being identified or configured.
707	A 4.5 GB 16-bit differential SCSI disk drive being identified or configured.
708	An L2 cache being identified or configured.
709	128 port ISA adapter being configured
710	POWER GXT150M graphics adapter being identified or configured.
711	Unknown adapter being identified or configured.
712	Graphics slot bus configuration is executing.
713	The IBM ARTIC960 device being configured.
714	A video capture adapter being configured.
715	The Ultramedia Services audio adapter being configured. This number displays briefly on the panel.
717	TP Ethernet Adapter being configured.
718	GXT500 Graphics Adapter being configured.
720	Unknown read/write optical drive type being configured.
721	Unknown disk or SCSI device being identified or configured.
722	Unknown disk being identified or configured.
723	Unknown CD-ROM being identified or configured.
724	Unknown tape drive being identified or configured.
725	Unknown display adapter being identified or configured.
726	Unknown input device being identified or configured.
727	Unknown async device being identified or configured.
728	Parallel printer being identified or configured.
729	Unknown parallel device being identified or configured.
730	Unknown diskette drive being identified or configured.
731	PTY being identified or configured.
732	Unknown SCSI initiator type being configured.
733	7 GB 8-mm tape drive being configured.
734	4x SCSI-2 640 MB CD-ROM Drive being configured.
736	Quiet Touch keyboard and speaker cable being configured.
741	1080 MB SCSI Disk Drive being configured.
745	16 GB 4-mm Tape Auto Loader being configured.
746	SCSI-2 Fast/Wide PCI Adapter being configured.
747	SCSI-2 Differential Fast/Wide PCI Adapter being configured.
749	7331 Model 205 Tape Library being configured.
751	SCSI 32-bit SE F/W RAID Adapter being configured.
754	1.1 GB 16-bit SCSI disk drive being configured.
755	2.2 GB 16-bit SCSI disk drive being configured.
756	4.5 GB 16-bit SCSI disk drive being configured.
757	External 13 GB 1.5M/s 1/4-inch tape being configured.
763	SP Switch MX Adapter being configured.
764	SP System Attachment Adapter being configured.

Progress code	Description/Action
772	4.5 GB SCSI F/W Disk Drive being configured.
773	9.1 GB SCSI F/W Disk Drive being configured.
774	9.1 GB External SCSI Disk Drive being configured.
776	PCI Token-Ring Adapter being identified or configured.
777	10/100 Ethernet Tx PCI Adapter being identified or configured.
778	POWER GXT3000P 3D PCI Graphics adapter being configured.
77B	4-Port 10/100 Ethernet Tx PCI Adapter being identified or configured.
77c	A 1.0 GB 16-bit SCSI disk drive being identified or configured.
783	4-mm DDS-2 Tape Autoloader being configured.
789	2.6 GB External Optical Drive being configured.
78B	POWER GXT4000P PCI Graphics Adapter.
78D	GXT300P 2D Graphics adapter being configured.
790	Multi-bus Integrated Ethernet Adapter being identified or configured.
797	TURBOWAYS® 155 UTP/STP ATM Adapter being identified or configured.
798	Video streamer adapter being identified or configured.
799	2-Port Multiprotocol PCI adapter being identified or configured.
79c	ISA bus configuration executing.
7C0	CPU/System Interface being configured.
7C1	Business Audio Subsystem being identified or configured.
7cc	PCMCIA bus configuration executing.
800	TURBOWAYS® 155 MMF ATM Adapter being identified or configured.
803	7336 Tape Library robotics being configured.
804	8x Speed SCSI-2 CD-ROM Drive being configured.
806	POWER GXT800 PCI Graphics adapter being configured.
807	SCSI Device Enclosure being configured.
80c	SSA 4-Port Adapter being identified or configured.
811	Processor complex being identified or configured.
812	Memory being identified or configured.
813	Battery for time-of-day, NVRAM, and so on being identified or configured, or system I/O control logic being identified or configured.
814	NVRAM being identified or configured.
815	Floating-point processor test.
816	Operator panel logic being identified or configured.
817	Time-of-day logic being identified or configured.
819	Graphics input device adapter being identified or configured.
821	Standard keyboard adapter being identified or configured.
823	Standard mouse adapter being identified or configured.
824	Standard tablet adapter being identified or configured.
825	Standard speaker adapter being identified or configured.
826	Serial Port 1 adapter being identified or configured.
827	Parallel port adapter being identified or configured.

AIX IPL progress codes

Progress code	Description/Action
828	Standard diskette adapter being identified or configured.
831	3151 adapter being identified or configured, or Serial Port 2 being identified or configured.
834	64-port async controller being identified or configured.
835	16-port async concentrator being identified or configured.
836	128-port async controller being identified or configured.
837	16-port remote async node being identified or configured.
838	Network Terminal Accelerator Adapter being identified or configured.
839	7318 Serial Communications Server being configured.
840	PCI Single-Ended Ultra SCSI Adapter being configured.
841	8-port async adapter (EIA-232) being identified or configured.
842	8-port async adapter (EIA-422A) being identified or configured.
843	8-port async adapter (MIL-STD-188) being identified or configured.
844	7135 RAIDiant Array disk drive subsystem controller being identified or configured.
845	7135 RAIDiant Array disk drive subsystem drawer being identified or configured.
846	RAIDiant Array SCSI 1.3 GB Disk Drive being configured.
847	16-port serial adapter (EIA-232) being identified or configured.
848	16-port serial adapter (EIA-422) being identified or configured.
849	X.25 Interface Coprocessor/2 adapter being identified or configured.
850	Token-Ring network adapter being identified or configured.
851	T1/J1 Portmaster [®] adapter being identified or configured.
852	Ethernet adapter being identified or configured.
854	3270 Host Connection Program/6000 connection being identified or configured.
855	Portmaster Adapter/A being identified or configured.
857	FSLA adapter being identified or configured.
858	5085/5086/5088 adapter being identified or configured.
859	FDDI adapter being identified or configured.
85c	Token-Ring High-Performance LAN adapter being identified or configured.
861	Optical adapter being identified or configured.
862	Block Multiplexer Channel Adapter being identified or configured.
865	ESCON Channel Adapter or emulator being identified or configured.
866	SCSI adapter being identified or configured.
867	Async expansion adapter being identified or configured.
868	SCSI adapter being identified or configured.
869	SCSI adapter being identified or configured.
870	Serial disk drive adapter being identified or configured.
871	Graphics subsystem adapter being identified or configured.
872	Grayscale graphics adapter being identified or configured.
874	Color graphics adapter being identified or configured.
875	Vendor generic communication adapter being configured.
876	8-bit color graphics processor being identified or configured.
877	POWER Gt3 [™] /POWER Gt4 [™] being identified or configured.

Progress code	Description/Action
878	POWER Gt4™ graphics processor card being configured.
879	24-bit color graphics card, MEV2 being configured.
880	POWER Gt1™ adapter being identified or configured.
887	Integrated Ethernet adapter being identified or configured.
889	SCSI adapter being identified or configured.
890	SCSI-2 Differential Fast/Wide and Single-Ended Fast/Wide Adapter/A being configured.
891	Vendor SCSI adapter being identified or configured.
892	Vendor display adapter being identified or configured.
893	Vendor LAN adapter being identified or configured.
894	Vendor async/communications adapter being identified or configured.
895	Vendor IEEE 488 adapter being identified or configured.
896	Vendor VME bus adapter being identified or configured.
897	S/370™ Channel Emulator adapter being identified or configured.
898	POWER Gt1x™ graphics adapter being identified or configured.
899	3490 attached tape drive being identified or configured.
89c	A multimedia SCSI CD-ROM being identified or configured.
900	GXT110P Graphics Adapter being identified or configured.
901	Vendor SCSI device being identified or configured.
902	Vendor display device being identified or configured.
903	Vendor async device being identified or configured.
904	Vendor parallel device being identified or configured.
905	Vendor other device being identified or configured.
908	POWER GXT1000 Graphics subsystem being identified or configured.
910	1/4 GB Fiber Channel/266 Standard Adapter being identified or configured.
911	Fiber Channel/1063 Adapter Short Wave being configured.
912	2.0 GB SCSI-2 differential disk drive being identified or configured.
913	1.0 GB differential disk drive being identified or configured.
914	5 GB 8-mm differential tape drive being identified or configured.
915	4 GB 4-mm tape drive being identified or configured.
916	Non-SCSI vendor tape adapter being identified or configured.
917	A 2.0 GB 16-bit differential SCSI disk drive being identified or configured.
918	A 2.0 GB 16-bit single-ended SCSI disk drive being identified or configured.
920	Bridge Box being identified or configured.
921	101 keyboard being identified or configured.
922	102 keyboard being identified or configured.
923	Kanji keyboard being identified or configured.
924	Two-button mouse being identified or configured.
925	Three-button mouse being identified or configured.
926	5083 tablet being identified or configured.
927	5083 tablet being identified or configured.
928	Standard speaker being identified or configured.

AIX IPL progress codes

Progress code	Description/Action
929	Dials being identified or configured.
930	Lighted program function keys (LPFK) being identified or configured.
931	IP router being identified or configured.
933	Async planar being identified or configured.
934	Async expansion drawer being identified or configured.
935	3.5-inch diskette drive being identified or configured.
936	5.25-inch diskette drive being identified or configured.
937	An HIPPI adapter being configured.
938	Serial HIPPI PCI adapter being configured.
942	POWER GXT 100 graphics adapter being identified or configured.
943	A 3480 or 3490 control unit attached to a System/370 Channel Emulator/A adapter are being identified or configured.
944	100 MB ATM adapter being identified or configured.
945	1.0 GB SCSI differential disk drive being identified or configured.
946	Serial port 3 adapter being identified or configured.
947	A 730 MB SCSI disk drive being configured.
948	Portable disk drive being identified or configured.
949	Unknown direct bus-attach device being identified or configured.
950	Missing SCSI device being identified or configured.
951	670 MB SCSI disk drive being identified or configured.
952	355 MB SCSI disk drive being identified or configured.
953	320 MB SCSI disk drive being identified or configured.
954	400 MB SCSI disk drive being identified or configured.
955	857 MB SCSI disk drive being identified or configured.
956	670 MB SCSI disk drive electronics card being identified or configured.
957	120 MB DBA disk drive being identified or configured.
958	160 MB DBA disk drive being identified or configured.
959	160 MB SCSI disk drive being identified or configured.
960	1.37 GB SCSI disk drive being identified or configured.
964	Internal 20 GB 8-mm tape drive identified or configured.
968	1.0 GB SCSI disk drive being identified or configured.
970	Half-inch, 9-track tape drive being identified or configured.
971	150 MB 1/4-inch tape drive being identified or configured.
972	2.3 GB 8-mm SCSI tape drive being identified or configured.
973	Other SCSI tape drive being identified or configured.
974	CD-ROM drive being identified or configured.
975	An optical disk drive being identified or configured.
977	M-Audio Capture and Playback Adapter being identified or configured.
981	540 MB SCSI-2 single-ended disk drive being identified or configured.
984	1 GB 8-bit disk drive being identified or configured.
985	M-Video Capture Adapter being identified or configured.

Progress code	Description/Action
986	2.4 GB SCSI disk drive being identified or configured.
987	An Enhanced SCSI CD-ROM drive being identified or configured.
989	200 MB SCSI disk drive being identified or configured.
990	2.0 GB SCSI-2 single-ended disk drive being identified or configured.
991	525 MB 1/4-inch cartridge tape drive being identified or configured.
994	5 GB 8-mm tape drive being identified or configured.
995	1.2GB 1/4-inch cartridge tape drive being identified or configured.
996	A single-port, multiprotocol communications adapter being identified or configured.
997	FDDI adapter being identified or configured.
998	2.0 GB 4-mm tape drive being identified or configured.
999	7137 or 3514 Disk Array Subsystem being configured.
D46	Token-Ring cable.
D81	T2 Ethernet Adapter being configured.
2000	Dynamic LPAR CPU Addition
2001	Dynamic LPAR CPU Removal
2002	Dynamic LPAR Memory Addition
2003	Dynamic LPAR Memory Removal
2004	DLPAR Maximum Memory size too large
2010	HTX miscompare
2011	Configuring device model 2107 fcp
2012	Configuring device model 2107 iscsi
2013	Configuring MR-1750 (device model 1750) fcp
2014	Configuring MR-1750 (device model 1750) iscsi
2015	Configuring SVC (device model 2145) fcp
2016	Configuring SVCCISCO (device model 2062) fcp
2017	Configuring SVCCISCO (device model 2062) iscsi
2018	Configuring Virtual Management Channel driver
2019	Configuring vty server
201b	Configuring Virtual SCSI Optical
2020	Configuring Infiniband ICM kernel component
2021	Configuring TCP Infiniband Interface kernel component
2502	Configuring PCI-X266 Planar 3 GB integrated SAS adapter
2503	Configuring PCI-X266 Planar 3 GB integrated SAS RAID adapter
2512	Configuring PCI-X DDR quad channel Ultra320 SCSI RAID adapter
2513	Configuring PCI-X DDR quad channel Ultra320 SCSI RAID adapter
2514	Configuring PCI-X DDR quad channel Ultra320 SCSI RAID adapter
2520	PCI Dual-Channel Ultra-3 SCSI adapter being identified or configured.
2522	PCI-X Dual Channel Ultra320 SCSI Adapter
2523	PCI-X Ultra320 SCSI RAID Adapter
2526	PCI-X Ultra320 SCSI RAID Battery Pack
2527	PCI-X Quad Channel U320 SCSI RAID Adapter

AIX IPL progress codes

Progress code	Description/Action
2528	PCI-X Dual Channel Ultra320 SCSI adapter
2529	PCI-X Dual Channel Ultra320 SCSI RAID adapter
252B	PCI-X DDR Dual Channel Ultra320 SCSI RAID adapter
252D	PCI-X DDR Dual Channel Ultra320 SCSI RAID adapter
252E	PCI-X DDR Auxiliary Cache adapter
2530	10/100 Mbps Ethernet PCI Adapter II being configured.
2533	10 GB Ethernet -SR PCI-X 2.0 DDR adapter being configured
2534	10 GB Ethernet -LR PCI-X 2.0 DDR adapter being configured
2535	4-Port 10/100/1000 Base-TX Ethernet PCI-X Adapter being configured.
2547	Generic 522 bites per sector SCSI JBOD (not osdisk) Disk Drive
254E	Fibre Channel Expansion Card
2562	Keyboard/Mouse Attachment Card-PCI being configured.
2564	Keyboard/Mouse Attachment Card-PCI being configured.
2566	USB 3.5 inch Micro Diskette Drive
2568	USB CD-ROM, Generic
2571	2-Port PCI Asynchronous EIA-232 Adapter
2581	1 GB iSCSI TOE PCI-X adapter is being configured (copper connector)
2582	iSCSI protocol device associated with an iSCSI adapter is being configured
2583	1 GB iSCSI TOE PCI-X adapter being configured (copper connector)
2584	IDE DVD-RAM drive being configured
2585	IDE DVD-ROM drive being configured
2586	
2587	Slimline DVD-ROM drive
2588	4.7 GB slimline DVD-RAM drive
2590	IDE CD-ROM drive being configured
2591	IDE DVD-ROM drive being configured.
2592	IDE DVD-ROM drive being configured.
2593	IDE DVD-RAM drive being configured.
2594	4.7 GB IDE slimline DVD-RAM drive
2595	IDE slimline DVD-ROM drive
25A0	I/O Planar Control Logic for IDE devices
25B9	Ethernet Adapter (Fiber)
25C0	Gigabit Ethernet-SX PCI-X adapter
25C1	10/100/1000 base-TX Ethernet PCI-X adapter
25C2	Dual Port Gigabit SX Ethernet PCI-X Adapter
25C3	10/100/1000 Base-TX Dual Port PCI-Adapter
25C4	Broadcom Dual-Port Gpbs Ethernet PCI-X Adapter
25D2	LSI SAS adapter
2600	PCI 64-bit Fibre Channel Arbitrated Loop Adapter being configured.
2601	PCI 64-bit Fibre Channel Arbitrated Loop Adapter being configured.
2602	PCI 64-Bit 4 GB fibre channel adapter

Progress code	Description/Action
2611	36/72 GB 4 mm internal tape drive
2612	80/160 GB internal tape drive with VXA2 technology
2613	200/400 GB LTO2 Tape drive
2614	VXA3 160/320 GB Tape Drive
2615	Configuring DAT160 80 GB Tape drive
2617	Configuring LTO3 400 GB Tape drive
2621	PCI-X Dual-port 4x HCA Adapter being configured
2631	Integrated IDE controller
2640	IDE Disk Drive, 2.5 inch
2641	73 GB SCSI disk drive 68 pin 10K rpm being identified or configured.
2642	73 GB SCSI disk drive 80 pin 10K rpm with u3 carrier being identified or configured.
2643	73 GB SCSI disk drive 80 pin 10K rpm with u3 carrier being identified or configured. (For OpenPower systems)
2644	146 GB SCSI disk drive 68 pin 10K rpm being identified or configured.
2645	146 GB SCSI disk drive 80 pin 10K rpm with u3 carrier being identified or configured.
2646	146 GB SCSI disk drive 80 pin 10K rpm with u3 carrier being identified or configured. (For OpenPower systems)
2647	300 GB SCSI disk drive 68 pin 10K rpm being identified or configured.
2648	300 GB SCSI disk drive 80 pin 10K rpm with u3 carrier being identified or configured.
2649	300 GB SCSI disk drive 80 pin 10K rpm with u3 carrier being identified or configured. (For OpenPower systems)
264b	36 GB SCSI disk drive 80 pin 15K rpm with u3 carrier being identified or configured.
264d	36 GB SCSI disk drive 80 pin 15K rpm with u3 carrier being identified or configured. (For OpenPower systems)
264e	73 GB SCSI disk drive 80 pin 15K rpm with u3 carrier being identified or configured.
2650	ESS iSCSI devices being identified or configured.
2651	SVC being identified or configured.
2652	SVCCISCOi being identified or configured.
2653	73 GB SCSI disk drive 80 pin 15K rpm with u3 carrier being identified or configured. (For OpenPower systems)
2654	146 GB SCSI disk drive 80 pin 15K rpm with u3 carrier being identified or configured.
2655	146 GB SCSI disk drive 80 pin 15K rpm with u3 carrier being identified or configured. (For OpenPower systems)
2656	73 GB SCSI disk drive 80 pin 15K rpm being identified or configured.
2657	146 GB SCSI disk drive 80 pin 15K rpm being identified or configured.
2658	73 GB SCSI disk drive 80 pin 10K rpm being identified or configured.
2659	146 GB SCSI disk drive 80 pin 10K rpm being identified or configured.
265b	300 GB SCSI disk drive 80 pin 10K rpm being identified or configured.
2D01	PCI-X Quad Channel U320 SCSI RAID battery pack
2D05	PCI-X266 Planar 3 GB SAS RAID adapter battery pack
2D07	PCI-X DDR Auxiliary Cache adapter

AIX diagnostics load-progress indicators

AIX IPL progress codes

Note: Some systems might produce 4-digit codes. If the leftmost digit of a 4-digit code is 0, use the three rightmost digits.

Progress code	Description/Action
c00	AIX Install/Maintenance loaded successfully.
c01	Insert the first diagnostic diskette.
c02	Diskettes inserted out of sequence.
c03	The wrong diskette is in diskette drive.
c04	The loading stopped with an irrecoverable error.
c05	A diskette error occurred.
c06	The rc.boot configuration shell script is unable to determine type of boot.
c07	Insert the next diagnostic diskette.
c08	RAM file system started incorrectly.
c09	The diskette drive is reading or writing a diskette.
c20	An unexpected halt occurred, and the system is configured to enter the kernel debug program instead of entering a system dump.
c21	The ifconfig command was unable to configure the network for the client network host.
c22	The tftp command was unable to read client's <i>ClientHostName.info</i> file during a client network boot.
c24	Unable to read client's <i>ClientHostName.info</i> file during a client network boot.
c25	Client did not mount remote miniroot during network install.
c26	Client did not mount the /usr file system during the network boot.
c29	The system was unable to configure the network device.
c31	Select the console display for the diagnostics. To select No console display, set the key mode switch to Normal, then to Service. The diagnostic programs then load and run the diagnostics automatically. If you continue to get the message, check the cables and make sure you are using the serial port.
c32	A directly attached display (HFT) was selected.
c33	A TTY terminal attached to serial ports S1 or S2 was selected.
c34	A file was selected. The console messages store in a file.
c35	No console found.
c40	Configuration files are being restored.
c41	Could not determine the boot type or device.
c42	Extracting data files from diskette.
c43	Cannot access the boot/install tape.
c44	Initializing installation database with target disk information.
c45	Cannot configure the console.
c46	Normal installation processing.
c47	Could not create a physical volume identifier (PVID) on disk.
c48	Prompting you for input.
c49	Could not create or form the JFS log.
c50	Creating root volume group on target disks.
c51	No paging devices were found.
c52	Changing from RAM environment to disk environment.

Progress code	Description/Action
c53	Not enough space in the /tmp directory to do a preservation installation.
c54	Installing either BOS or additional packages.
c55	Could not remove the specified logical volume in a preservation installation.
c56	Running user-defined customization.
c57	Failure to restore BOS.
c58	Displaying message to turn the key.
c59	Could not copy either device special files, device ODM, or volume group information from RAM to disk.
c61	Failed to create the boot image.
c62	Loading platform dependent debug files.
c63	Loading platform dependent data files.
c64	Failed to load platform dependent data files.
c70	Problem Mounting diagnostic CD-ROM disc.
c99	Diagnostics have completed. This code is only used when there is no console.
Fxx	(xx is any number) Refer to Firmware chapter of the service manual.

Dump progress indicators (dump status codes)

The following dump progress indicators, or dump status codes, are part of a Type 102 message.

Note: When a lowercase c is listed, it displays in the lower half of the character position. Some systems produce 4-digit codes, the two leftmost positions can have blanks or zeros. Use the two rightmost digits.

Progress code	Description/Action
0c0	The dump completed successfully.
0c1	The dump failed due to an I/O error.
0c2	A dump, requested by the user, is started.
0c3	The dump is inhibited.
0c4	The dump device is not large enough.
0c5	The dump did not start, or the dump crashed.
0c6	Dumping to a secondary dump device.
0c7	Reserved.
0c8	The dump function is disabled.
0c9	A dump is in progress.
0cc	Unknown dump failure.

Crash codes

Note: Some systems may produce 4-digit codes. If the leftmost digit of a 4-digit code is 0, use the three rightmost digits.

The crash codes that follow are part of a Type 102 message. These crash codes are grouped into three categories:

AIX IPL progress codes

- Category 1** Dump analysis is the appropriate first action in Problem Determination. Begin the Problem Determination process with software support.
- Category 2** Dump analysis most likely will not aid in Problem Determination. Begin the Problem Determination process with hardware support.
- Category 3** Both software and hardware support may be needed in Problem Determination, go to 888 sequence in operator panel display to assist in problem isolation.

Category 1 crash progress code

Progress code	Description/Action
300	Data storage interrupt from the processor.
32x	Data storage interrupt because of an I/O exception from IOCC.
38x	Data storage interrupt because of an I/O exception from SLA.
400	Instruction storage interrupt.
700	Program interrupt.

Category 2 crash progress code

Progress code	Description/Action
200	Machine check because of a memory bus error.
201	Machine check because of a memory timeout.
202	Machine check because of a memory card failure.
203	Machine check because of an out of range address.
204	Machine check because of an attempt to write to ROS.
205	Machine check because of an uncorrectable address parity.
206	Machine check because of an uncorrectable ECC error.
207	Machine check because of an unidentified error.
208	Machine check due to an L2 uncorrectable ECC.
500	External interrupt because of a scrub memory bus error.
501	External interrupt because of an unidentified error.
51x	External interrupt because of a DMA memory bus error.
52x	External interrupt because of an IOCC channel check.
53x	External interrupt from an IOCC bus timeout; x represents the IOCC number.
54x	External interrupt because of an IOCC keyboard check.
800	Floating point is not available.

Category 3 crash progress code

Progress code	Description/Action
000	Unexpected system interrupt.
558	There is not enough memory to continue the IPL.
600	AIX 4.3.3.3 and above: Alignment Interrupt. If pre-AIX 4.3.3.3: AIX has crashed because the Portability Assist Layer (PAL) for this machine type has detected a problem.
605	AIX 4.3.3.3 and above: AIX has crashed because the Portability Assist Layer (PAL) for this machine type has detected a problem.

Using progress codes

Progress codes (or checkpoints) offer information about the stages involved in powering on and performing initial program load (IPL). Although progress codes do not always indicate an error, in some cases your server can pause indefinitely (hang) without displaying an 8-character reference code. Only when you experience such a hang condition should you take any action with respect to a progress code. When you look up a progress code, the information indicates the most appropriate action for that progress code.

Progress code formats

Progress codes appear in several formats:

- an 8-digit hexadecimal number that begins with C (except for CB) or D (except for DA)
- a 3-digit hexadecimal number
- a 4-digit hexadecimal number that has a value between 2000 and 27FF
- a 4-digit hexadecimal number that begins with a 0, 2, BC, D, or E.

When the control panel displays more than eight characters, use only the first eight characters to find the progress code. The characters that display beyond the first eight represent a location code that can assist you in diagnosing the problem.

Notes:

1. Some operating systems, including Linux, do not produce progress codes when performing an IPL
2. Your server might display progress codes in the system control panel (for systems with a physical control panel) or in the virtual console on the Hardware Management Console.

Depending on the progress code you encounter, you might use the Advanced System Management Interface (ASMI) or System Management Services (SMS) to view progress code logs.

Using the Advanced System Management Interface to view progress code logs (all models except A50 and 185)

The service processor keeps two logs of progress codes. Use the ASMI to view the progress code logs. To view the progress logs, complete the following steps:

1. Access the ASMI and log in
2. Select **System Information**, then select either **Previous Boot Progress Indicators** or **Progress Indicator History**.
 - Selecting **Previous Boot Progress Indicators** shows the progress codes that the server displayed in the control panel during the last system boot.
 - **Progress Indicator History** shows the latest progress codes that the server is currently displaying in the control panel.

Using System Management Services to view progress code logs

Using the System Management Services (SMS) to view progress code logs (models A50 and 185)

The system management services (SMS) keeps three logs of progress codes. Use the SMS console to access the SMS menus to look at the progress code logs. To view the logs, complete the following steps:

1. Access the SMS menus.
2. Select **System Service Aids > Progress Indicator History**, then select **Current Boot Progress Indicators**, **Previous Boot Progress Indicators** or **Previous Failover Permanent Side Boot**.
 - Selecting **Current Boot Progress Indicators** shows the latest progress codes that the server is currently displaying in the control panel.

Using progress codes

- Selecting **Previous Boot Progress Indicators** shows the progress codes that the server displayed in the control panel during the last system boot.
- Selecting **Previous Failover Permanent Side Boot** shows the progress codes that the server displayed in the control panel during the last boot in which the server was unable to boot from the T (temporary) side and boot from the P (permanent) side.

Selecting **Progress Indicator History** shows the latest progress codes that the server is currently displaying in the control panel.

Using the list of progress codes

The list of progress codes is in numeric order. The first column represents either an entire 4 character progress code or the first 4 characters of an 8-character progress code. The second column describes the progress code and links to information that includes one or more tables and, when necessary, a description of the table columns.

To use the list of progress codes, locate the code that you want to find in the first column and click the link in the second column.

For more information, refer to the “List of progress codes” on page 787.

Reference codes that begin with a number sign (#)

When viewed from the Service Focal Point serviceable event list, a reference code that begins with a number sign character (#) represent an AIX diagnostics message. If you do not have a Hardware Management Console (HMC) running the Service Focal Point application you will never see a reference code that begins with a number sign character.

You can show the text associated with the reference code by selecting the **View Details** action and viewing all of the serviceable event data. The message displayed might be informational only or might suggest a corrective action.

To resolve the event, follow the action described in the message. In general, do not suspect a hardware problem unless performing the suggested action is ineffective.

The following example show the message associated with reference code #2533902:

```
No trouble was found with this adapter. However, the ethernet adapter diagnostics indicate that there may be a problem with the connection to the network. It is suggested that Advanced Diagnostic Testing with the wrap plug be performed on this adapter in order to better isolate the cause of this network interface problem.
```

Appendix. Notices

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Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. IBM is not responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Industry Canada Compliance Statement

This Class A digital apparatus complies with Canadian ICES-003.

Avis de conformité à la réglementation d'Industrie Canada

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This product has been tested and found to comply with the limits for Class A Information Technology Equipment according to European Standard EN 55022. The limits for Class A equipment were derived for commercial and industrial environments to provide reasonable protection against interference with licensed communication equipment.

Warning: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

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Electromagnetic Interference (EMI) Statement - People's Republic of China

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The following is a summary of the EMI Taiwan statement above.

Warning: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user will be required to take adequate measures.

IBM Taiwan Contact Information

台灣IBM 產品服務聯絡方式：
台灣國際商業機器股份有限公司
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Dieses Gerät ist berechtigt in Übereinstimmung mit Dem deutschen EMVG vom 9.Nov.92 das EG-Konformitätszeichen zu führen.

Der Aussteller der Konformitätserklärung ist die IBM Germany.

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(Auszug aus dem EMVG vom 9.Nov.92, Para.3, Abs.4)

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Class B Notices

The following Class B statements apply to model 9111-520 (stand-alone version), 9131-52A (stand-alone version), 7047-185 and the 9111-285.

Federal Communications Commission (FCC) statement

Note: This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult an IBM authorized dealer or service representative for help.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. Proper cables and connectors are available from IBM authorized dealers. IBM is not responsible for any radio or television interference caused by using other than recommended cables or connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interferences, and (2) this device must accept any interferences received, including interference that may cause undesired operation.

Industry Canada Compliance Statement

This Class B digital apparatus complies with Canadian ICES-003.

Avis de conformité à la réglementation d'Industrie Canada

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European Community Compliance Statement

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IBM Taiwan Product Service Contact Information

台灣IBM 產品服務聯絡方式：
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Electromagnetic Interference (EMI) Statement - Korea

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Radio Protection for Germany

Dieses Gerät ist berechtigt in Übereinstimmung mit Dem deutschen EMVG vom 9.Nov.92 das EG-Konformitätszeichen zu führen.

Der Aussteller der Konformitätserklärung ist die IBM Germany.

Dieses Gerät erfüllt die Bedingungen der EN 55022 Klasse B. Für diese von Geräten gilt folgende Bestimmung nach dem EMVG:

Geräte dürfen an Orten, für die sie nicht ausreichend entstört sind, nur mit besonderer Genehmigung des Bundesministers für Post und Telekommunikation oder des Bundesamtes für Post und Telekommunikation betrieben werden. Die Genehmigung wird erteilt, wenn keine elektromagnetischen Störungen zu erwarten sind.

(Auszug aus dem EMVG vom 9.Nov.92, Para.3, Abs.4)

Hinweis

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Appliances are labeled in accordance with European Directive 2002/96/EC concerning waste electrical and electronic equipment (WEEE). The Directive determines the framework for the return and recycling of used appliances as applicable throughout the European Union. This label is applied to various products to indicate that the product is not to be thrown away, but rather reclaimed upon end of life per this Directive.

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In the United States, IBM has established a return process for reuse, recycling, or proper disposal of used IBM sealed lead acid, nickel cadmium, nickel metal hydride, and other battery packs from IBM

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For Taiwan: Please recycle batteries.



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