

IBM

@server

Reference codes







@server

Reference codes

**Note**

Before using this information and the product it supports, be sure to read the information in "Notices," on page 593 and the manual *IBM eServer Safety Information*, G229-9054.

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## Reference codes

*For use by service providers.*

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.

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 345.
  - **No:** Continue with the next step.
2. Does the reference code contain exactly 5 characters?
  - **Yes:** See “List of service request numbers” on page 345.
  - **No:** Continue with the next step.
3. 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 345.
  - **No:** Continue with the next step.
4. Is the reference code a 4-digit hexadecimal number that begins with 0 or 2?
  - **Yes:** See “Using progress codes” on page 591.
  - **No:** Continue with the next step.
5. 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.”

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 554

“Using progress codes” on page 591

“Using system reference codes” on page 344

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## List of system reference codes

*For use by service providers.*

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 344.

## List of system reference codes

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

### 1

1xxx  
1400  
180A

### 2

2058  
2105  
2107  
2689  
2724  
2742  
2743  
2744  
2745  
2746  
2748  
2749  
2750  
2751  
2757  
2760  
2761  
2763  
2765  
2766  
2767  
2768  
2771  
2772  
2778  
2780  
2782  
2787  
2793  
2805  
281x  
2838  
283C  
283D  
283F  
2842  
2843  
2844  
2849  
284B  
287F  
2890  
2892  
28B9  
28CB  
28CC



28D2  
28DB  
28DF

**3**

3490  
3494  
3570  
358x  
3590  
3592

**4**

432x  
4685  
4758  
4764

**5**

5700  
5701  
5702  
5703  
5704  
5706  
5707  
5709  
570B

**6**

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

**7**

7207  
7208

**9**

9348  
9427

## List of system reference codes

### A

A1xx  
A2xx  
A6xx  
A7xx  
A9xx  
AAxx

### B

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  
BF67  
BF75  
BF77

### C

For codes that begin with C or D, and for 4-digit codes that begin with a space character or a zero, see “List of progress codes” on page 555.

### D

For codes that begin with C or D, and for 4-digit codes that begin with a space character or a zero, see “List of progress codes” on page 555.

E  
Exxx  
E302

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

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

*For use by service providers.*

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
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.	
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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.	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.	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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
1D60	RIO/HSL Adapter Card Switch fault	SI_CARD TWRCARD
1D61 to 1D62	Removable Media Planar Switch fault	DEVBPLN TWRCARD
1F01	TMS limit reached - log only	
2600 to 2601	Power Good Fault	PGDPART
2602	Power Good Fault	PWR1918 TWRCARD
2603	Power Good Fault	PGDPART
2605 to 2606	Power Good Fault	PWR1900 TWRCARD
2612	Optical Converter 5V Fault The SPCN detected a fault on the SPCN card optical converter 5V.	CBLALL TWRCARD

**1xxx**

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2613	Configuration Requires 200V Input Configuration now requires 200V AC power.	CBLALL
2630 to 2632	Regulator Fault	PWR1918 TWRCARD
2633 to 2635	Regulator Fault	SYSBKPL TWRCARD
2636 to 2637, 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
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	I2C Bus LED Controller Communication fault	TWRCARD
3121	I2C Bus DASD Backplane 1 Communication fault	I2CBUS TWRCARD
4201	UPS Reported, Utility Failure On	
4203	UPS Reported, Battery Low On	
4410	Internal Battery Power Unit Fault Internal Battery Power Unit in the system has failed.	BATRY BATCHGR TWRCARD CBLALL

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
4411	Internal Battery Power Unit Charger Fault Internal Battery Power Unit Charger in the system has failed.	BATCHGR TWRCARD CBLALL
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
7110, 7120	Power supply failure	PWRSPLY TWRCARD
7201	Ambient temperature is out of range	
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
7300	Power supply failure	PWRSPLY TWRCARD
7610	Fan Fault The Fan is operating at the wrong speed.	AIRMOVR TWRCARD
7611	Fan missing error A problem was detected with a Fan which can be caused by a Fan not being installed. Install Fan if missing, replace if already installed.	AIRMOVR TWRCARD
7620	Fan Fault The Fan is operating at the wrong speed.	AIRMOVR TWRCARD
7621	Fan missing error A problem was detected with a Fan which can be caused by a Fan not being installed. Install Fan if missing, replace if already installed.	AIRMOVR TWRCARD
7630	Fan Fault The Fan is operating at the wrong speed.	AIRMOVR TWRCARD

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
7631	Fan missing error  A problem was detected with a Fan which can be caused by a Fan not being installed. Install Fan if missing, replace if already installed.	AIRMOVR TWRCARD
7640	Fan Fault  The Fan is operating at the wrong speed.	AIRMOVR TWRCARD
7641	Fan missing error  A problem was detected with a Fan which can be caused by a Fan not being installed. Install Fan if missing, replace if already installed.	AIRMOVR TWRCARD
7650	Fan Fault	AIRMOVR TWRCARD
7651	Fan missing error	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
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
8450 to 8451	SPCN Configuration mismatch	PWR1918 TWRCARD
8455 to 8456	Power Supply Missing	PWRSPPLY TWRCARD
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
8720 to 8721	BPC ethernet Communication fault	CABLEH BPC TWRCARD



Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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	BPC fault, fips log collection failed	CABLEH NEXTLVL
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
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.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9025	<p>SPCN Licensed Internal Code is not valid.</p> <p>The Licensed Internal Code in one of the frames is not valid. The code will be reloaded.</p> <p>No action required. This reference code is logged for error analysis only.</p>	
9026	<p>Battery Power Unit is reporting a low charge.</p> <p>The battery power unit is not charged enough to run a test.</p> <p>No action required. This reference code is logged for information only.</p>	
9027	<p>Battery Power Unit is defective.</p> <p>No action required. This reference code is logged for information only.</p>	
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>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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>	
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
90F0	A frame was dropped from the SPCN configuration. 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.	PWR1907 TWRCARD CBLALL
90F1	A frame was added to the SPCN configuration. No action required. This reference code is logged for information only.	
90F2	Slave disappeared 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.	PWR1907 TWRCARD CBLALL
90F3	Slave reappeared	
9101	VLIC-SPCN Timeout A Licensed Internal Code timeout occurred. The SPCN failed to respond to a Licensed Internal Code command.	TWRCARD CTLPNL SVCPROC
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9137	Bad PCI Correlation Problem SPCN node not matched	CBLALL
9138	Bad Location Code	CBLALL
91DD	All SPCN Downloads Complete	
91DE	RIO Download Complete	
91FB	Write VPD on next IPL	
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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.
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 for Squadrons H	See the service documentation for instructions.
CABLEH	cable all for squadrons H	See the service documentation for instructions.
CARDFLT	Card Fault for SqH	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 for Squadrons H	See the service documentation for instructions.
DEVBPLN	Device backplane	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 for Squadrons H	See the service documentation for instructions.
LITSTRP	Litstrip for Squadrons H	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.
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 Squadrons H	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.



Failing Item	Description	Document Description
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
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 too high.	
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.	
007E	There is a problem with sensed and passed configuration of the MCMs that are installed in the system.	
0080	The VPD (seeprom) 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
0083	The thermal sensor(s) on a PU book has indicated a thermal problem and one or more DCAs have turned off.	
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.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0107	The voltage on voltage level 7 has reached the warning undervoltage limit for the specified cage or drawer.	
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.	
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.	
1301	The DASD backplane is defective.	ANY-DASDBACKPLN
1302	The IO planar is defective.	ANY-IOPLANAR
1304	The is a defective DASD on Backplane one.	ANY-DASD
1305	The is a defective DASD on Backplane two.	ANY-DASD
1306	The is a defective DASD on Backplane three.	ANY-DASD
1307	The is a defective DASD on Backplane four.	ANY-DASD
1308	The is a switch riser card.	ANY-RISER
1309	The is a switch riser card.	ANY-PLANAR
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
1A19	A communication fault between BPC A and the load on port J09 has been detected.	BPCA-PORT-9

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
2058	DCA to DCA communication fault.	DCA-ANY DCA-ANY1 CAGE
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
2082	The drive card (MDA) of Air Moving Device (AMD) three is defective.	MDAA-3 MSAA-3
2083	The motor scroll(MSA) of Air Moving Device (AMD) three is defective.	MSAA-3 MDAA-3
2084	The drive card (MDA) of Air Moving Device (AMD) four is defective.	MDAA-4 MSAA-4
2085	The motor scroll(MSA) of Air Moving Device (AMD) four is defective.	MSAA-4 MDAA-4
2086	The drive card (MDA) of Air Moving Device (AMD) five is defective.	MDAA-5 MSAA-5
2087	The motor scroll(MSA) of Air Moving Device (AMD) five is defective.	MSAA-5 MDAA-5

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2088	The drive card (MDA) of Air Moving Device (AMD) six is defective.	MDAA-6 MSAA-6
2089	The motor scroll(MSA) of Air Moving Device (AMD) six is defective.	MSAA-6 MDAA-6
2093	BPA-A BPR-1 is defective.	BPR-1A BPC-A BPD-1A BPD-2A BPD-3A IBF-1A BPE-BOARD-A
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 between BPC A and BPR 1A.	BPR-1A BPC-A BPE-BOARD-A
209B	Communication error between BPC A and BPR 2A.	BPR-2A BPC-A BPE-BOARD-A
209C	Communication error between BPC A and BPR 3A.	BPR-3A BPC-A BPE-BOARD-A
209D	Communication error between BPC B and BPR 1B.	BPR-1B BPC-B BPE-BOARD-B
209E	Communication error between BPC B and BPR 2B.	BPR-2B BPC-B BPE-BOARD-B
209F	Communication error between 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



Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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' 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-2A
2174	BPR-2A 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-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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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' 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-3A

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2274	BPR-3A 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-3B
2351	DCA number one is defective.	DCA-21
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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
2A83	A problem from (BPA-A) BPC to the HMC was detected.	BPC-A COMC-BPCA-HMC
2A84	An over current has been detected by the (BPA-A) BPC on its BPF.	BPC-A BPF-A
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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



Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
2B83	A problem from (BPA-B) BPC to the HMC was detected.	BPC-B COMC-BPCB-HMC
2B84	An over current has been detected by the (BPA-B) BPC on its BPF.	BPC-B BPF-B
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
3002	BPC A side has detected unmatched FRUs in the same CageID.	ANY-SLOT
3003	BPC A side has detected a invalid FRU in Cage.	ANY-SLOT
3004	BPC A side has detected a invalid FRU in BPA A.	ANY-SLOT BPC-A BPR-1A BPR-2A BPR-3A BPD-1A BPD-2A BPD-3A BPE-BOARD-A
3005	BPC A side has detected miscabling to DCA port.	ANY-SLOT
3006	BPC A side detects cabling order to a DCA differant than to the other DCAs (This BPA sides view).	ANY-SLOT
3007	BPC A side detects cabling order to a MDA differant than to the other MDAs (This BPA sides view).	ANY-SLOT
3008	BPC A side detects differant sensed board IDs in DCAs.	DCA-1 DCA-2 CAGE

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3010	BPC-A side does not detect IBF-1A or IBF CB open.	BPR-1A IBF-1A CBL-IBF1A BPC-A BPE-BOARD-A
3011	BPC-B side does not detect IBF-1B or IBF CB open.	BPR-1B IBF-1B CBL-IBF1B BPC-B BPE-BOARD-B
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
3092	BPC B side has detected unmatched FRUs in the same CageID.	ANY-SLOT
3093	BPC B side has detected a invalid FRU in Cage.	ANY-SLOT

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3094	BPC B side has detected a invalid FRU in BPA B.	ANY-SLOT BPC-B BPR-1B BPR-2B BPR-3B BPD-1B BPD-2B BPD-3B BPE-BOARD-B
3095	BPC B side has detected miscabbling to DCA port.	ANY-SLOT
3096	BPC B side detects cabling order to a DCA differant than to the other DCAs (This BPA sides view).	ANY-SLOT
3097	BPC A side detects cabling order to a MDA differant than to the other MDAs (This BPA sides view).	ANY-SLOT
3098	BPC B side detects differant sensed board IDs in DCAs.	DCA-1 DCA-2 CAGE
3110	BPC-A side does not detect IBF-2A or IBF CB open.	BPR-2A IBF-2A CBL-IBF2A BPC-A BPE-BOARD-A
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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.	
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.	

## (2058) Reference codes

*For use by service providers.*

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 LICCODE 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.
LICCODE	Licensed Internal Code	See the service documentation for instructions.
MA_BRDG	Multi-adapter bridge	See the service documentation for instructions.

## (2105, 2107) Disk unit reference codes

*For use by service providers.*

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. (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
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	Problem Analysis; Symbolic FRU Isolation
FCINTF	Fibre Channel interface	Problem Analysis; Symbolic FRU Isolation
FCIOA	Fibre Channel IOA	Problem Analysis; Symbolic FRU Isolation
FCPORT	Port not operational	Problem Analysis; Symbolic FRU Isolation
IOP	I/O processor card	Problem Analysis; Symbolic FRU Isolation
OPT_CLN	Fiber optic cleaning kit	Problem Analysis; Symbolic FRU Isolation

## (2689) Reference codes

*For use by service providers.*

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 LICCODE LICCODE
0A22	Adapter card storage error	LICCODE LICCODE 2689
1307	I/O adapter resource not available.	LICCODE LICCODE
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 LICCODE
3000	An I/O adapter failure occurred.	2689 LICCODE
3001	I/O adapter Licensed Internal Code failed.	2689 LICCODE
3006	An I/O adapter failure occurred.	2689 ANYBUS
3080	I/O adapter Licensed Internal Code failed.	LICCODE
3081	I/O adapter error; logged only.	
3084	An I/O adapter failure occurred.	LICCODE 2689
3087	I/O adapter resource not available.	LICCODE LICCODE NTUSER
6070	An I/O adapter failure occurred.	2689
6071	I/O adapter Licensed Internal Code failed.	LICCODE
6072	I/O adapter Licensed Internal Code failed.	LICCODE 2689
6075	I/O adapter resource not available.	LICCODE

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6083, 6085	I/O adapter Licensed Internal Code failed.	LICCODE 2689
6201	A permanent I/O processor failure occurred	2689 LICCODE
6202	I/O processor Licensed Internal Code error	LICCODE 2689
6203	A permanent I/O processor failure occurred	NETSERV 2689 LICCODE
6210	I/O processor Licensed Internal Code error	NETSERV LICCODE
6222	A permanent I/O processor failure occurred	LICCODE 2689
6223	A permanent I/O processor failure occurred	2689 LICCODE
6225	A permanent I/O processor failure occurred	LICCODE LICCODE 2689
6226	I/O processor card detected device error	LICCODE AS4NTDD
6227	A HostLAN error was detected	NTUSER LICCODE 2689
6228	Windows initiated a warm boot	LICCODE 2689
6501	A Windows fatal error occurred	2689 LICCODE
6502	A Windows fatal error occurred	LICCODE 2689
6530	A Virtual SCSI error was detected	NTVSCSI NTOPSYS
6531	A Virtual SCSI error was detected	NTVSCSI AS4NTDD NTOPSYS LICCODE
6532	A Virtual SCSI error was detected	NTOPSYS LICCODE AS4NTDD
6533	A Virtual SCSI error was detected	NTUSER NTOPSYS AS4NTDD
6534	A Virtual SCSI error was detected	AS4NTDD LICCODE NTOPSYS
6535	A Virtual SCSI error was detected	NTUSER NTDEVDR LICCODE
6538	A Virtual SCSI error was detected	NTVSCSI NTOPSYS

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6539	A Virtual SCSI error was detected	NTVSCSI AS4NTDD NTOPSYS LICCODE
653A	A Virtual SCSI error was detected	NTOPSYS LICCODE AS4NTDD
653B	A Virtual SCSI error was detected	NTUSER NTOPSYS AS4NTDD
653C	A Virtual SCSI error was detected	AS4NTDD LICCODE NTOPSYS
653D	A Virtual SCSI error was detected	NTUSER NTDEVDR LICCODE
653F	A Virtual SCSI error was detected	NTDEVDR NTOPSYS LICCODE
6540	A Virtual SCSI error was detected	NTVSCSI LICCODE LICCODE
6541	A permanent I/O processor failure occurred	2689 LICCODE
6542	Licensed Internal Code error detected.	LICCODE LICCODE
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 LICCODE
6590	A Netfinity Server error was detected	
65B0	A HostLAN error was detected	NTLANDD NTOPSYS
65B1	A HostLAN error was detected	NTLANDD NTOPSYS LICCODE
65B2	A HostLAN error was detected	NTDEVDR NTOPSYS LICCODE
8301	An I/O adapter failure occurred.	LICCODE 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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
B4B0	I/O adapter hardware error detected	2689
B4B1	A Netfinity Server error was detected	NETSERV LICCODE
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	LICCODE 2689
B935	Incompatible hardware detected.	LICCODE 2689
B960	I/O processor Licensed Internal Code error	LICCODE 2689
BE00	An I/O adapter failure occurred.	LICCODE 2689

**Table 2. Failing items details**

Failing Item	Description	Document Description
2689	I/O adapter card	Repair and Parts; removal and installation procedures
ANYBUS	Remote HSL Network Bus	Problem Analysis; Symbolic FRU Isolation
AS4NTDD	Device Driver	Problem Analysis; Symbolic FRU Isolation
DISKIMG	Server Storage Space Object	Problem Analysis; Symbolic FRU Isolation
LICCODE	LIC I/O Processor Licensed Internal Code	Problem Analysis; Symbolic FRU Isolation
LICCODE	SLIC Licensed Internal Code	Service Functions; APAR or LICTR
NETSERV	Direct Attach Netfinity Server	Problem Analysis; Symbolic FRU Isolation
NSCABLE	Direct Attach Netfinity Server cable	Problem Analysis; Symbolic FRU Isolation
NTDEVDR	Device Driver	Problem Analysis; Symbolic FRU Isolation
NTLANDD	Device Driver	Problem Analysis; Symbolic FRU Isolation
NTOPSYS	Windows Operating System	Problem Analysis; Symbolic FRU Isolation
NTUSER	User-initiated action	Problem Analysis; Symbolic FRU Isolation
NTVSCSI	Device Driver	Problem Analysis; Symbolic FRU Isolation

## (2724, 2744, 6149) Reference codes

*For use by service providers.*

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. (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**

*For use by service providers.*

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. (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
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

For use by service providers.

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

For use by service providers.

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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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	INFORMATION

## (2746) Twinaxial – workstation adapter reference codes

For use by service providers.

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 (BBBBBcbb). 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

For use by service providers.

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 BACKPLN
3101	I/O processor card detected interface error  Error occurred on SCSI bus 1.  Perform IOPIP13.	FI01107 STORIOA FI01140 BACKPLN

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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3102	I/O processor card detected interface error  Error occurred on SCSI bus 2.  Perform IOPIP13.	FI01107 STORIOA FI01140 BACKPLN
3103	I/O processor card detected interface error  Error occurred on SCSI bus 3.  Perform IOPIP13.	FI01107 STORIOA FI01140 BACKPLN
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.	SVCDOSCS
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.	SVCDOSCS
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.	SVCDOSCS
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.	SVCDOSCS
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.	SVCDOSCS
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.	SVCDOSCS
3400	I/O processor card detected device error	FI02112 STORIOA FI01106 DEVTERM FI01140

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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	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.	SVCDOS
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

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

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"> <li>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.</li> <li>2. If disk units are not attached, perform the VRYCFG RESET(*YES) command to reset the IOP and Vary On attached resources.</li> </ol>	SVCDOCS
8200	I/O processor Licensed Internal Code error	AJDGP01 IOP
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
9014	<p>Mode jumper overridden due to cache data in conflicting mode</p> <p>See JOVERRIDE.</p>	SVCDOCS
9015	<p>Mode jumper missing</p> <p>See JMISSING.</p>	SVCDOCS
9020 to 9021	<p>Array not functional due to present hardware configuration.</p> <p>Perform IOPIP20.</p>	SVCDOCS
9022 to 9024	<p>Array not functional due to present hardware configuration.</p> <p>Perform IOPIP22.</p>	SVCDOCS
9025	<p>Disk unit is not supported at its physical location.</p> <p>Perform IOPIP21.</p>	SVCDOCS
9026	<p>Array not functional due to present hardware configuration.</p> <p>Perform IOPIP22.</p>	SVCDOCS

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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, 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.	SVCDOCS
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.	SVCDOCS
9052	Cache data exists for device that has been modified. Contact your next level of support.	SVCDOCS
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
9092	Disk unit requires initialization before use.  Perform IOPIP26.	SVCDPCS
9093	Read cache device not in correct format  Contact your next level of support.	SVCDPCS
B934	Incompatible hardware detected.	STORIOA
FF3D	I/O adapter detected 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	Problem Analysis; Symbolic FRU Isolation
ANYBUS	IOP card bus error	Problem Analysis; Symbolic FRU Isolation
BACKPLN	Card Enclosure or Planar Board	Problem Analysis; Symbolic FRU Isolation
CACHBAT	Cache battery pack	Problem Analysis; Symbolic FRU Isolation
DEVBPLN	Device backplane	Problem Analysis; Symbolic FRU Isolation
DEVTTERM	Terminating plug	Problem Analysis; Symbolic FRU Isolation
IOP	I/O processor card	Problem Analysis; Symbolic FRU Isolation
PCIBUS	Any PCI card on the PCI bus	Problem Analysis; Symbolic FRU Isolation
STORIOA	Storage I/O adapter	Problem Analysis; Symbolic FRU Isolation
SVCDPCS	Customer engineer directed to system problem analysis	Problem Analysis; Symbolic FRU Isolation
USER	System Operator/User	Problem Analysis; Symbolic FRU Isolation

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

For use by service providers.

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
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

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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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 BACKPLN
3101	I/O processor card detected interface error  Error occurred on SCSI bus 1.  Perform IOPIP13.	FI01107 STORIOA FI01140 BACKPLN



Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3102	I/O processor card detected interface error Error occurred on SCSI bus 2. Perform IOPIP13.	FI01107 STORIOA FI01140 BACKPLN
3103	I/O processor card detected interface error Error occurred on SCSI bus 3. Perform IOPIP13.	FI01107 STORIOA FI01140 BACKPLN
3109	I/O processor timed out a device command Perform IOPIP16.	FI01105 STORIOA FI01140 BACKPLN FI01106
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.	

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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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. <b>Note:</b> 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. <b>Note:</b> 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
8005	A recoverable IOP or cache adaptor card error occurred. <b>Note:</b> 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. <b>Note:</b> 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. <b>Note:</b> 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

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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
8300	I/O processor card or Licensed Internal Code error  A microprocessor exception occurred on the I/O processor.	STORIOA IOP AJDGP01
8301	Not valid condition in I/O Processor Licensed Internal Code  The Licensed Internal Code found a condition that should not have occurred.	FI01101 AJDGP01 IOP
8400	I/O processor Licensed Internal Code error	AJDGP01
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
9012	IOP requires a cache adaptor card but cannot find it.  The cache adapter card is missing or broken.  Perform IOPIP29.	CACHE

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9013	The IOP and attached cache adaptor card are not compatible. Perform IOPIP19.	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 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 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, 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.	SVCDOCS
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.	SVCDOCS
9052	Cache data exists for device that has been modified. Perform IOPIP28.	SVCDOCS

**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 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
AJDG301	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	Problem Analysis; Symbolic FRU Isolation
ANYBUS	IOP card bus error	Problem Analysis; Symbolic FRU Isolation
BACKPLN	Card Enclosure or Planar Board	Problem Analysis; Symbolic FRU Isolation
CACHBAT	Cache battery pack	Problem Analysis; Symbolic FRU Isolation
CACHE	Cache adaptor card	Problem Analysis; Symbolic FRU Isolation
COMPRES1	Compressed device and compression IOA are not compatible	Problem Analysis; Symbolic FRU Isolation
CTLPNL	Control panel, or the interface to the Control panel	Problem Analysis; Symbolic FRU Isolation
DEVBPLN	Device backplane	Problem Analysis; Symbolic FRU Isolation
DEVTERM	Terminating plug	Problem Analysis; Symbolic FRU Isolation
FCIOA	Fibre Channel IOA	Problem Analysis; Symbolic FRU Isolation
IOACNFG	Configuration error	Problem Analysis; Symbolic FRU Isolation
IOP	I/O processor card	Problem Analysis; Symbolic FRU Isolation
MA_BRDG	Multi-adapter bridge	Problem Analysis; Symbolic FRU Isolation
MEDIA	Defective media	Problem Analysis; Symbolic FRU Isolation
OPT_CLN	Fiber optic cleaning kit	Problem Analysis; Symbolic FRU Isolation
PCIBUS	Any PCI card on the PCI bus	Problem Analysis; Symbolic FRU Isolation
STORIOA	Storage I/O adapter	Problem Analysis; Symbolic FRU Isolation
SVCDOCS	Customer engineer directed to system problem analysis	Problem Analysis; Symbolic FRU Isolation
USER	System Operator/User	Problem Analysis; Symbolic FRU Isolation

## (2750, 2751) Reference codes

*For use by service providers.*

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

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

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. (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

*For use by service providers.*

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, 5704) Reference Codes

*For use by service providers.*

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, 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.	SVCDOS
3100	I/O processor card detected interface error	FCINTF ANYFC 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
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.	
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.	SVCDOCS
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	Problem Analysis; Symbolic FRU Isolation

## 2765, 2766, 2787, 5704

Failing Item	Description	Document Description
ANYFC	Any Fibre Channel device	Problem Analysis; Symbolic FRU Isolation
FCDEV	Fibre Channel device	Problem Analysis; Symbolic FRU Isolation
FCINTF	Fibre Channel interface	Problem Analysis; Symbolic FRU Isolation
FCIOA	Fibre Channel IOA	Problem Analysis; Symbolic FRU Isolation
FCPORT	Port not operational	Problem Analysis; Symbolic FRU Isolation
IOP	I/O processor card	Problem Analysis; Symbolic FRU Isolation
OPT_CLN	Fiber optic cleaning kit	Problem Analysis; Symbolic FRU Isolation
SVCDOCS	Customer engineer directed to system problem analysis	Problem Analysis; Symbolic FRU Isolation

## (2771, 2772) Reference codes

For use by service providers.

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 (BBBBCbcb). 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

For use by service providers.

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

*For use by service providers.*

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.

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

For use by service providers.

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) Device backplane reference codes**

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
8401	Removable media power fault	DEVBPLN
FFF4	Device backplane problem	DEVBPLN STORIOA FI01140 FI01106

**Table 2. Device backplane failing items details**

Failing Item	Description	Document Description
BACKPLN	Card enclosure or backplane	Problem Analysis; Symbolic FRU Isolation
COMPRES1	Compressed device and compression IOA are not compatible	Problem Analysis; Symbolic FRU Isolation
DEVBPLN	Device backplane	Problem Analysis; Symbolic FRU Isolation
DEVTTERM	Device terminator	Problem Analysis; Symbolic FRU Isolation
DISKDRV	Disk drive and logic card	Problem Analysis; Symbolic FRU Isolation
STORIOA	Storage I/O adapter	Problem Analysis; Symbolic FRU Isolation
SVCDOCS	Customer engineer directed to system problem analysis	Problem Analysis; Symbolic FRU Isolation

## (287F) Reference codes

For use by service providers.

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. (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

*For use by service providers.*

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 LICCODE LICCODE
0A22	Adapter card storage error	LICCODE LICCODE IOP MA_BRDG
1307	I/O adapter resource not available.	LICCODE LICCODE
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 LICCODE
3000	An I/O adapter failure occurred.	IOP LICCODE
3001	I/O adapter Licensed Internal Code failed.	IOP LICCODE
3006	An I/O adapter failure occurred.	IOP ANYBUS
3080	I/O adapter Licensed Internal Code failed.	LICCODE

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.	LICCODE IOP IOA MA_BRDG
3087	I/O adapter resource not available.	LICCODE LICCODE NTUSER IOA
6070	An I/O adapter failure occurred.	IOP
6071	I/O adapter Licensed Internal Code failed.	LICCODE
6072	I/O adapter Licensed Internal Code failed.	LICCODE IOP
6075	I/O adapter resource not available.	LICCODE
6083	I/O adapter Licensed Internal Code failed.	LICCODE IOP
6085	I/O adapter Licensed Internal Code failed.	LICCODE IOP MA_BRDG
6201	A permanent I/O processor failure occurred	IOP LICCODE
6202	I/O processor Licensed Internal Code error	LICCODE IOP
6210	I/O processor Licensed Internal Code error	LICCODE
6221	I/O processor resource not available	LICCODE
6222	A permanent I/O processor failure occurred	LICCODE IOP
6223	A permanent I/O processor failure occurred	IOP LICCODE
6224	A permanent I/O processor failure occurred	DISKIMG LICCODE IOP MEMORY
6225	A permanent I/O processor failure occurred	LICCODE LICCODE IOP
6226	I/O processor card detected device error	LICCODE AS4NTDD
6227	A HostLAN error was detected	NTUSER LICCODE IOP
6228	Windows initiated a warm boot	LICCODE IOP
6501	A Windows fatal error occurred	IOP LICCODE
6502	A Windows fatal error occurred	LICCODE IOP
6530	A Virtual SCSI error was detected	NTVSCSI NTOPSYS

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6531	A Virtual SCSI error was detected	NTVSCSI AS4NTDD NTOPSYS LICCODE
6532	A Virtual SCSI error was detected	NTOPSYS LICCODE AS4NTDD
6533	A Virtual SCSI error was detected	NTUSER NTOPSYS AS4NTDD
6534	A Virtual SCSI error was detected	AS4NTDD LICCODE NTOPSYS
6535	A Virtual SCSI error was detected	NTUSER NTDEVDR LICCODE
6538	A Virtual SCSI error was detected	NTVSCSI NTOPSYS
6539	A Virtual SCSI error was detected	NTVSCSI AS4NTDD NTOPSYS LICCODE
653A	A Virtual SCSI error was detected	NTOPSYS LICCODE AS4NTDD
653B	A Virtual SCSI error was detected	NTUSER NTOPSYS AS4NTDD
653C	A Virtual SCSI error was detected	AS4NTDD LICCODE NTOPSYS
653D	A Virtual SCSI error was detected	NTUSER NTDEVDR LICCODE
653F	A Virtual SCSI error was detected	NTDEVDR NTOPSYS LICCODE
6540	A Virtual SCSI error was detected	NTVSCSI LICCODE LICCODE
6541	A permanent I/O processor failure occurred	IOP LICCODE
6542	Licensed Internal Code error detected.	LICCODE LICCODE
6543	A Windows fatal error occurred	NTOPSYS NTVSCSI
6580	A Windows fatal error occurred	DISKIMG IOP LICCODE
65B0	A HostLAN error was detected	NTLANDD NTOPSYS

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
65B1	A HostLAN error was detected	NTLANDD NTOPSYS LICCODE
65B2	A HostLAN error was detected	NTDEVDR NTOPSYS LICCODE
8301	An I/O adapter failure occurred.	LICCODE 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.	LICCODE 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	LICCODE IOP
B935	Incompatible hardware detected.	IOA LICCODE IOP MA_BRDG
B960	I/O processor Licensed Internal Code error	LICCODE IOP IOA
B961	An error was detected on one of the attached adapter cards.	IOA IOP LICCODE
BE00	An I/O adapter failure occurred.	LICCODE IOP IOA MA_BRDG



**Table 2. Failing items details**

Failing Item	Description	Document Description
ANYBUS	System bus	Problem Analysis; Symbolic FRU Isolation
AS4NTDD	Device Driver	Problem Analysis; Symbolic FRU Isolation
DISKIMG	Server Storage Space Object	Problem Analysis; Symbolic FRU Isolation
IOA	IOA Communications adapter card	Repair and Parts; removal and installation procedures
IOP	I/O adapter card	Repair and Parts; removal and installation procedures
IOP	Communications Input/Output Processor card	Repair and Parts; removal and installation procedures
LICCODE	LIC I/O Processor Licensed Internal Code	Service Functions; APAR or LICTR
LICCODE	SLIC Licensed Internal Code	Service Functions; APAR or LICTR
MA_BRDG	Multi-adapter bridge	Problem Analysis; Symbolic FRU Isolation
MEMORY	DIMM in first populated DIMM position	Problem Analysis; Symbolic FRU Isolation
MEMORY	DIMM 1	Problem Analysis; Symbolic FRU Isolation
MEMORY	DIMM 2	Problem Analysis; Symbolic FRU Isolation
MEMORY	Storage card	Problem Analysis; Symbolic FRU Isolation
MEMORY	DIMM 3	Problem Analysis; Symbolic FRU Isolation
MEMORY	DIMM 0	Problem Analysis; Symbolic FRU Isolation
NTDEVDR	Device Driver	Problem Analysis; Symbolic FRU Isolation
NTLANDD	Device Driver	Problem Analysis; Symbolic FRU Isolation
NTOPSYS	Windows Operating System	Problem Analysis; Symbolic FRU Isolation
NTUSER	User-initiated action	Problem Analysis; Symbolic FRU Isolation
NTVSCSI	Device Driver	Problem Analysis; Symbolic FRU Isolation

## (2892) Reference codes

*For use by service providers.*

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 LICCODE FI00730
0A22	Adapter card storage error	FI00730 LICCODE IOP MA_BRDG
1307	I/O adapter resource not available.	FI00730 LICCODE

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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 FI00730
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 FI00730
3001	I/O adapter Licensed Internal Code failed.	IOP FI00730
3006	An I/O adapter failure occurred.	IOP ANYBUS
3080	I/O adapter Licensed Internal Code failed.	FI00730
3081	I/O adapter error; logged only.	
3084	An I/O adapter failure occurred.	FI00730 IOP IOA MA_BRDG
3087	I/O adapter resource not available.	FI00730 LICCODE NTUSER IOA
6070	An I/O adapter failure occurred.	IOP
6071	I/O adapter Licensed Internal Code failed.	FI00730
6072	I/O adapter Licensed Internal Code failed.	FI00730 IOP
6075	I/O adapter resource not available.	FI00730
6083	I/O adapter Licensed Internal Code failed.	FI00730 IOP
6085	I/O adapter Licensed Internal Code failed.	FI00730 IOP MA_BRDG
6201	A permanent I/O processor failure occurred	IOP FI00730
6202	I/O processor Licensed Internal Code error	FI00730 IOP
6204	I/O adapter failure due to a thermal condition	IOP
6210	I/O processor Licensed Internal Code error	FI00730
6221	I/O processor resource not available	LICCODE
6222	A permanent I/O processor failure occurred	FI00730 IOP
6223	A permanent I/O processor failure occurred	IOP FI00730

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6224	A permanent I/O processor failure occurred	DISKIMG FI00730 IOP MEMORY
6225	A permanent I/O processor failure occurred	FI00730 LICCODE IOP
6226	I/O processor card detected device error	LICCODE AS4NTDD
6227	A HostLAN error was detected	NTUSER FI00730 IOP
6228	Windows initiated a warm boot	FI00730 IOP
6501	A Windows fatal error occurred	IOP FI00730
6502	A Windows fatal error occurred	FI00730 IOP
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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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	IOP FI00730
6542	Licensed Internal Code error detected.	LICCODE FI00730
6543	A Windows fatal error occurred	NTOPSYS NTVSCSI
6580	A Windows fatal error occurred	DISKIMG IOP FI00730
65B0	A HostLAN error was detected	NTLANDD NTOPSYS
65B1	A HostLAN error was detected	NTLANDD NTOPSYS LICCODE
65B2	A HostLAN error was detected	NTDEVDR NTOPSYS LICCODE
8301	An I/O adapter failure occurred.	FI00730 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.	FI00730 IOP
B4B8	Adapter card storage error	MEMORY IOP

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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	FI00730 IOP
B935	Incompatible hardware detected.	IOA FI00730 IOP MA_BRDG
B960	I/O processor Licensed Internal Code error	FI00730 IOP IOA
B961	An error was detected on one of the attached adapter cards.	IOA IOP FI00730
BE00	An I/O adapter failure occurred.	FI00730 IOP IOA MA_BRDG

**Table 2. Failing items details**

Failing Item	Description	Document Description
ANYBUS	System bus	Problem Analysis; Symbolic FRU Isolation
AS4NTDD	Device Driver	Problem Analysis; Symbolic FRU Isolation
DISKIMG	Server Storage Space Object	Problem Analysis; Symbolic FRU Isolation
IOA	IOA Communications adapter card	Repair and Parts; removal and installation procedures
IOP	I/O adapter card	Repair and Parts; removal and installation procedures
IOP	Communications Input/Output Processor card	Repair and Parts; removal and installation procedures
LICCODE	SLIC Licensed Internal Code	Service Functions; APAR or LICTR
MA_BRDG	Multi-adapter bridge	Problem Analysis; Symbolic FRU Isolation
MEMORY	Storage card	Problem Analysis; Symbolic FRU Isolation
MEMORY	Storage card	Problem Analysis; Symbolic FRU Isolation
MEMORY	DIMM 3	Problem Analysis; Symbolic FRU Isolation
MEMORY	DIMM 2	Problem Analysis; Symbolic FRU Isolation
MEMORY	DIMM in first populated DIMM position - DIMM 0 or DIMM 1	Problem Analysis; Symbolic FRU Isolation
MEMORY	Storage card	Problem Analysis; Symbolic FRU Isolation
MEMORY	DIMM 0	Problem Analysis; Symbolic FRU Isolation
MEMORY	DIMM 1	Problem Analysis; Symbolic FRU Isolation
NTDEVDR	Device Driver	Problem Analysis; Symbolic FRU Isolation

Failing Item	Description	Document Description
NTLANDD	Device Driver	Problem Analysis; Symbolic FRU Isolation
NTOPSYS	Windows Operating System	Problem Analysis; Symbolic FRU Isolation
NTUSER	User-initiated action	Problem Analysis; Symbolic FRU Isolation
NTVSCSI	Device Driver	Problem Analysis; Symbolic FRU Isolation
SVCDPCS	Customer engineer directed to system problem analysis	Problem Analysis; Symbolic FRU Isolation

## (3490) Tape unit reference codes

For use by service providers.

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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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"> <li>• Tape and DASD devices attached to the same type 6501 I/O processor</li> <li>• A device type or model that is not given support</li> </ul>	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"> <li>1. Ensure that an interposer is connected between the I/O processor and the SCSI cable.</li> <li>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.</li> <li>3. Ensure that a terminating plug is attached to the device end of the SCSI cable.</li> </ol>	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"> <li>1. Ensure that the device is powered on.</li> <li>2. Ensure that an interposer is connected between the I/O processor and the SCSI cable.</li> <li>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.</li> <li>4. Ensure that a terminating plug is attached to the device end of the SCSI cable.</li> </ol>	FI00851 FI00856 05H3834 EXTSCSI 61G8324
9201	Tape unit command timeout  Before exchanging any parts, do the following: <ol style="list-style-type: none"> <li>1. Ensure that the device is powered on.</li> <li>2. Ensure that an interposer is connected between the I/O processor and the SCSI cable.</li> <li>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.</li> <li>4. Ensure that a terminating plug is attached to the device end of the SCSI cable.</li> </ol>	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"> <li>1. Take a dump of the tape device Licensed Internal Code (see the 3490 Tape Drive service information).</li> <li>2. Power off the tape unit. Then power on the tape unit to resume operation.</li> </ol>	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"> <li>• Wait for next IPL when the system will attempt to load the LIC for the tape unit again.</li> <li>• 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.</li> </ul>	

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"> <li>• Set the 3490 Rack Unit Emergency Power Off switch to the On position.</li> <li>• Ensure that the 3490 Rack Enable/Off switch is set to the Enable position.</li> <li>• Press the 3490 Rack Power On button.</li> </ul> 2. Verify the following on 3490 Tape Unit: <ul style="list-style-type: none"> <li>• The Channel Enable/Disable switches are set to the Enable position.</li> <li>• The Normal/Test switch is set to the Normal position.</li> <li>• The CU Online/Offline switch is set to the Online position.</li> <li>• The Drive Address Online/Offline switches are set to the Online position.</li> <li>• The Drive DC Power switches are set to the On position.</li> </ul> <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

*For use by service providers.*

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 DHADEV C
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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

*For use by service providers.*

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	<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"> <li>• Tape and DASD devices attached to an I/O processor that does not support tape and DASD devices at the same time.</li> <li>• A device type or model that is not given support.</li> </ul>	UHZCNFG DHZDEV 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"> <li>1. Ensure that an interposer is connected between the I/O processor and the SCSI cable.</li> <li>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.</li> <li>3. Ensure that a terminating plug is attached to the device end of the SCSI cable.</li> </ol>	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"> <li>1. Ensure that the Fibre Channel cable is correctly connected to the ports.</li> <li>2. Clean the Fibre Channel connectors.</li> <li>3. If there is a hub attached, verify that the hub is operational.</li> <li>4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.</li> <li>5. refer to the tape device service documentation for additional problem analysis procedures.</li> </ol>	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"> <li>1. Ensure that the device is powered on.</li> <li>2. Ensure that an interposer is connected between the I/O processor and the SCSI cable.</li> <li>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.</li> <li>4. Ensure that a terminating plug is attached to the device end of the SCSI cable.</li> </ol>	DHZDEV FI00131 05H3834 EXTSCSI 61G8324

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"> <li>1. Ensure that the device is powered on.</li> <li>2. Ensure that an interposer is connected between the I/O processor and the SCSI cable.</li> <li>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.</li> <li>4. Ensure that a terminating plug is attached to the device end of the SCSI cable.</li> </ol>	DHZDEV FI00131 05H3834 EXTSCSI 61G8324
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"> <li>1. Ensure that the device is powered on.</li> <li>2. Ensure that an interposer is connected between the I/O processor and the SCSI cable.</li> <li>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.</li> <li>4. Ensure that a terminating plug is attached to the device end of the SCSI cable.</li> </ol>	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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9320	Tape device Licensed Internal Code failure  Perform the following: 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	Gateway device Licensed Internal Code error  Use the gateway device service documentation to analyze the problem.	FCCODE
9350	Tape unit detected a read or write error on tape medium  A permanent read or write error occurred, and the tape unit determined that the tape cartridge is defective. Exchange the tape cartridge.	MHZTMED UHZCLN DHZDEV
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"> <li>• Wait for next IPL when the system will attempt to load the LIC for the tape drive again.</li> <li>• 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.</li> </ul>	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
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, 6381, 6382, 6383, 6384, 6386, 6387, 63A0, 7207) Tape unit reference codes

*For use by service providers.*

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, 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
9020	I/O processor detected a SCSI bus configuration error  Before exchanging any parts, verify that the following condition is not present: <ul style="list-style-type: none"> <li>• Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.</li> </ul>	UH7CNFG FI00871 FI00130
9100	Interface error detected by I/O processor or by tape unit  If the attached device is an external device, do the following before exchanging any parts: <ol style="list-style-type: none"> <li>1. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.</li> <li>2. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.</li> <li>3. Ensure that a terminating plug is attached to the device end of the SCSI cable.</li> </ol>	FI00871 FI01112 FI00872 DEVTERM
9101	Fibre Channel interface error detected  If the attached device is an external device, do the following before exchanging any parts: <ol style="list-style-type: none"> <li>1. Ensure that the Fibre Channel cable is correctly connected to the ports.</li> <li>2. Clean the Fibre Channel connectors.</li> <li>3. If there is a hub attached, verify that the hub is operational.</li> <li>4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.</li> <li>5. refer to the tape device service documentation for additional problem analysis procedures.</li> </ol>	FCIOA FCDEV FCCABLE
9102	Gateway device detected a SCSI interface error  Use the gateway device service documentation to analyze the problem.	FI00871 FCGATE FI00872 DEVTERM
9200	I/O processor addressed the tape unit; no response  If the attached device is an external device, do the following before exchanging any parts: <ol style="list-style-type: none"> <li>1. Ensure that the device is powered on.</li> <li>2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.</li> <li>3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.</li> <li>4. Ensure that a terminating plug is attached to the device end of the SCSI cable.</li> </ol>	FI00871 FI01112 FI00872 DEVTERM
9201	Tape unit command timeout  If the attached device is an external device, do the following before exchanging any parts: <ol style="list-style-type: none"> <li>1. Ensure that the device is powered on.</li> <li>2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.</li> <li>3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.</li> <li>4. Ensure that a terminating plug is attached to the device end of the SCSI cable.</li> </ol>	FI00871 FI01112 FI00872 DEVTERM MH7TMED

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"> <li>1. Ensure that the device is powered on.</li> <li>2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.</li> <li>3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.</li> <li>4. Ensure that a terminating plug is attached to the device end of the SCSI cable.</li> </ol>	<p>FI00871 FI01112 FI00872 DEVTERM</p>
9210	Illegal or unsupported tape unit response	<p>FI00871 FI01112 FI00130</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>FI00130 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	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.	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"> <li>• Wait for next IPL when the system will attempt to load the LIC for the tape drive again.</li> <li>• 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.</li> </ul>	UH7USER
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
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

Failing Item	Description	Document Description
MH7TMED	Defective tape	Magnetic tape subsystem service information
UH7CLN	Tape unit needs cleaning	Magnetic tape subsystem operator's information
UH7CNFG	Tape configuration detected by I/O processor; not valid	Installation
UH7USER	Operator action required	System operation information

### (3590) Tape unit reference codes

For use by service providers.

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"> <li>• Tape and DASD devices attached to an I/O processor that does not support tape and DASD devices at the same time.</li> <li>• A device type or model that is not given support</li> </ul>	UHQC�FG FI00851 FI00130
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"> <li>1. Ensure that an interposer is connected between the I/O processor and the SCSI cable.</li> <li>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.</li> <li>3. Ensure that a terminating plug is attached to the device end of the SCSI cable.</li> </ol>	FI00851 FI00131 05H3834 EXTSCSI 61G8324

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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"> <li>1. Ensure that the Fibre Channel cable is correctly connected to the ports.</li> <li>2. Clean the Fibre Channel connectors.</li> <li>3. If there is a hub attached, verify that the hub is operational.</li> <li>4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.</li> <li>5. refer to the tape device service documentation for additional problem analysis procedures.</li> </ol>	<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>FI00851 FCGATE EXTSCSI 61G8324</p>
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"> <li>1. Ensure that the device is powered on.</li> <li>2. Ensure that an interposer is connected between the I/O processor and the SCSI cable.</li> <li>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.</li> <li>4. Ensure that a terminating plug is attached to the device end of the SCSI cable.</li> </ol>	<p>FI00851 FI00131 05H3834 EXTSCSI 61G8324</p>
9201	<p>Tape unit command timeout</p> <p>Before exchanging any parts, do the following:</p> <ol style="list-style-type: none"> <li>1. Ensure that the device is powered on.</li> <li>2. Ensure that an interposer is connected between the I/O processor and the SCSI cable.</li> <li>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.</li> <li>4. Ensure that a terminating plug is attached to the device end of the SCSI cable.</li> </ol>	<p>FI00851 FI00131 05H3834 EXTSCSI 61G8324</p>
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"> <li>1. Ensure that the device is powered on.</li> <li>2. Ensure that an interposer is connected between the I/O processor and the SCSI cable.</li> <li>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.</li> <li>4. Ensure that a terminating plug is attached to the device end of the SCSI cable.</li> </ol>	<p>FI00851 FI00131 05H3834 EXTSCSI 61G8324</p>
9210	<p>Illegal or unsupported tape unit response</p>	<p>FI00851 FI00131 FI00130</p>

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
9211	Gateway device detected a bus protocol error  Use the gateway device service documentation to analyze the problem.	FCGATE FCIOA FI00851 ANYFC FCCABLE EXTSCSI 61G8324
9300	Tape unit failure	FI00851
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.	FI00851
9302	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
9303	Gateway device failure  Use the gateway device service documentation to analyze the problem.	FCGATE
9310	Licensed Internal Code for the tape unit is not correct	FI00851 FI00130
9320	Tape device Licensed Internal Code failure  Do the following: 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	Gateway device Licensed Internal Code error  Use the gateway device service documentation to analyze the problem.	FCCODE
9350	Tape unit detected a read or write error on tape medium  A permanent read or write error occurred, and the tape unit determined that the tape cartridge is defective. Exchange the tape cartridge.	MHQTMED UHQCLN FI00851
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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"> <li>• Wait for next IPL when the system will attempt to load the LIC for the tape unit again.</li> <li>• 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.</li> </ul>	
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
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

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

*For use by service providers.*

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.

## 432x, 660x, 671x, 673x

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
3002	Addressed device failed to respond to selection	DISKDRV STORIOA BACKPLN FI01106 FI01140
3010	Disk device returned wrong response to IOP	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/CD or disk bus interface error occurred  Perform DSKIP03.	DISKDRV STORIOA FI01106 FI01140
3109	IOP 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.	SVCDOS
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.	SVCDOS
7000	Disk sector read error  No action required. This reference code is logged for information only.	DISKDRV



Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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" in the <i>iSeries Service Functions</i> .	
7004	System log entry only, no service action required	
7050	Data compression failure  Contact your next level of support.	SVCDOCS
7051	Compressed device and compression IOA are not compatible  The customer should perform the "Recovering From 6xxx7051 SRC" procedure in the <i>Backup and Recovery</i> , SC41-5304-07.	COMPRES1
7052	Data compression warning  The customer should perform the "Recovering From 6xxx7052 SRC" procedure in the <i>Backup and Recovery</i> , SC41-5304-07.	SVCDOCS
FFF2	Disk motor problem	DISKDRV
FFF3	Disk media format bad	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.	

## 432x, 660x, 671x, 673x

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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

Failing Item	Description	Document Description
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	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

**432x, 660x, 671x, 673x**

Failing Item	Description	Document Description
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 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

Failing Item	Description	Document Description
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
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

**432x, 660x, 671x, 673x**

Failing Item	Description	Document Description
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
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

Failing Item	Description	Document Description
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
AJJQ01	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	Problem Analysis; Symbolic FRU Isolation
COMPRES1	Compressed device and compression IOA are not compatible	Problem Analysis; Symbolic FRU Isolation
DEVTERM	Device terminator	Problem Analysis; Symbolic FRU Isolation
DISKDRV	Disk drive and logic card	Problem Analysis; Symbolic FRU Isolation
DISKDRV	Disk drive and logic card	Problem Analysis; Symbolic FRU Isolation
DISKDRV	Disk drive and logic card	Problem Analysis; Symbolic FRU Isolation
DISKDRV	Disk drive and logic card	Problem Analysis; Symbolic FRU Isolation
DISKDRV	Disk drive and logic card	Problem Analysis; Symbolic FRU Isolation
DISKDRV	Disk drive and logic card	Problem Analysis; Symbolic FRU Isolation
DISKDRV	Disk drive and logic card	Problem Analysis; Symbolic FRU Isolation
DISKDRV	Disk drive and logic card	Problem Analysis; Symbolic FRU Isolation
DISKLC	Disk drive logic card	Problem Analysis; Symbolic FRU Isolation
DISKLC	Disk drive logic card	Problem Analysis; Symbolic FRU Isolation
DISKLC	Disk drive logic card	Problem Analysis; Symbolic FRU Isolation
DISKLC	Disk drive logic card	Problem Analysis; Symbolic FRU Isolation
DISKLC	Disk drive logic card	Problem Analysis; Symbolic FRU Isolation
DISKLC	Disk drive logic card	Problem Analysis; Symbolic FRU Isolation
DISKLC	Disk drive logic card	Problem Analysis; Symbolic FRU Isolation
DISKLC	Disk drive logic card	Problem Analysis; Symbolic FRU Isolation
DISKTRY	Disk unit tray	Problem Analysis; Symbolic FRU Isolation
DISKTRY	Disk unit tray	Problem Analysis; Symbolic FRU Isolation
DISKTRY	Disk unit tray	Problem Analysis; Symbolic FRU Isolation
DISKTRY	Disk unit tray	Problem Analysis; Symbolic FRU Isolation
DISKTRY	Disk unit tray	Problem Analysis; Symbolic FRU Isolation
DISKTRY	Disk unit tray	Problem Analysis; Symbolic FRU Isolation
DISKTRY	Disk unit tray	Problem Analysis; Symbolic FRU Isolation

## 432x, 660x, 671x, 673x

Failing Item	Description	Document Description
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	Problem Analysis; Symbolic FRU Isolation
SVCDOCS	Customer engineer directed to system problem analysis	Problem Analysis; Symbolic FRU Isolation
UFGUSER	System Operator/User	System operation information

## (4758) Reference codes

*For use by service providers.*

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 LICCODE IOP MA_BRDG
B991	Tampering of cryptographic card suspected.	IOA LICCODE 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.
LICCODE	Licensed Internal Code	See the service documentation for instructions.
MA_BRDG	Multi-adapter bridge	See the service documentation for instructions.

## (4764) Reference codes

*For use by service providers.*



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 LICCODE
B991	Tampering of cryptographic card suspected.	IOA LICCODE
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
CARDTMP	Operating voltage or temperature range limit exceeded	Problem Analysis; Symbolic FRU Isolation
IOA	I/O adapter card	Problem Analysis; Symbolic FRU Isolation
LICCODE	Licensed Internal Code	Problem Analysis; Symbolic FRU Isolation

## (5700, 5701) Reference codes

*For use by service providers.*

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
B9A0	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.

## (5706, 5707) Reference codes

*For use by service providers.*

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
B9B0	I/O adapter hardware error detected	IOA LICCODE

**Table 2. Failing items details**

Failing Item	Description	Document Description
IOA	Communications adapter card	Problem Analysis; Symbolic FRU Isolation
LICCODE	Licensed Internal Code	Problem Analysis; Symbolic FRU Isolation

## (632x, 6330, 6331, 6333, 6336, 6337) Optical storage unit reference codes

*For use by service providers.*

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. (632x, 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 FI01106 FI01112 MEDIA FI01140 FI01141 DEVTERM CDTRAY
C010	Undefined sense key returned by device	FI00870
C020	Device internal configuration error	FI00870
C100	SCSI bus command error occurred	FI00870 FI01106 FI01112 MEDIA FI01140 FI01141 DEVTERM CDTRAY
C110	SCSI command timeout occurred	FI00870 FI01106 FI01112 MEDIA FI01140 FI01141 DEVTERM CDTRAY
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. Optical media and/or drive's optical lens is dirty.  Clean the optical drive and the media contained in the drive.	
C302	Media or device error occurred  While writing to the media, an 'out of spare sectors' condition was encountered. The media can no longer be written to but is still readable.  Clean the optical drive and the media contained in the drive.	

**632x, 6330, 6331, 6333, 6336, 6337**

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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.	MEDIA FI00870
C400	Interface error detected by device	FI00870 FI01106 FI01112 FI01140 FI01141 DEVTERM CDTRAY
C402	I/O processor internal program error occurred  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.	
CFF4	Internal device error occurred	FI00870
CFF6	Device recovered from error after retries  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.	
FF09	Licensed Internal Code for optical device was not upgraded  This reference code is logged for information only.	
FF3D	Recovered I/O processor 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. Optical storage unit failing items details**

Failing Item	Description	Document Description
CDTRAY	Flex cable on tray assembly	Problem Analysis; Symbolic FRU Isolation
DEVTERM	Bus Terminator	Problem Analysis; Symbolic FRU Isolation
MEDIA	Optical Media	System operation information

## (6A59) Workstation adapter console reference codes

*For use by service providers.*

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
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	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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

*For use by service providers.*

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 119.
    - **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	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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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"> <li>• Poor or damaged tape</li> <li>• Dirty read/write heads</li> <li>• Damaged data cartridges</li> <li>• Using a data cartridge previously recorded in a format or density that is not correct</li> <li>• Using the wrong data cartridge (for example, one in a different format or density from another set of data cartridges)</li> </ul> <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"> <li>• Verify the operation of the tape drive. Use the VFYTAP system command.</li> </ul> <p><b>Note:</b> 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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0395 to 0397, 039D to 039F	Tape unit detected a write error on tape medium Perform the Action for reference code 030B.	ML2TMED 46G2227
03AE, 03B0	Tape unit detected a read or write error on tape medium Perform the Action for reference code 030B.	ML2TMED 46G2227
03B3 to 03B4	Tape unit detected a write error on tape medium Perform the Action for reference code 030B.	ML2TMED 46G2227
03B5	Tape unit detected a read error on the tape medium Perform the Action for reference code 030B.	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	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
3002	I/O processor addressed the tape unit; no response The tape drive did not respond to commands from the IOP. Perform the following: 1. Ensure that the system interface cable is connected. 2. Ensure that power is on. If the above items are correct, call your next level of support	46G2227 46G3934 FI00830 FI00141 46G2599 17G1500 42F7300
3004	Tape unit failed after Licensed Internal Code was loaded The tape drive does not respond to IOP commands after new Licensed Internal Code was transferred to the tape drive. Perform TU-PIP4.	46G2227
3005	Blank tape or BOT encountered The tape drive has found a blank tape or BOT. When using a new data cartridge, the tape must first be initialized. This error can also occur when reading a tape if that tape was removed from the tape drive before writing was complete. Also see the Action for reference code 030B.	ML2TMED 46G2227 AJEDA00
3010	Illegal or unsupported tape unit response The tape drive returned a response to the IOP that is illegal or is not given support. Call your next level of support	46G2227 AJEDA00



Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
3100	Interface error detected by I/O processor or by tape unit  The IOP or the device detected a permanent error on the interface to the system.  Call your next level of support	46G2227 FI00141 FI00830 46G2599 42F7300 17G1500 46G3934 AJEDA00
3110	Tape unit command timeout  The tape drive did not complete a command sent by the IOP in the time allowed.  Call your next level of support	46G2227 FI00141 FI00830 46G2599 42F7300 17G1500 46G3934 AJEDA00
4016 to 4017	Licensed Internal Code for the tape unit is not correct	AJEDA00
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"> <li>• 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.</li> <li>• A device type or model that is not given support.</li> </ul>	UL2CNFG 46G2227 FI00130
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"> <li>1. Ensure that the device is powered on.</li> <li>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.</li> <li>3. Ensure that a terminating plug is attached to the device.</li> </ol>	46G2227 FI00131 46G3934 FI00830 46G2599 17G1500
9200	I/O processor addressed the tape unit; no response  Before exchanging any parts, do the following: <ol style="list-style-type: none"> <li>1. Ensure that the device is powered on.</li> <li>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.</li> <li>3. Ensure that the terminating plug is attached to the device.</li> </ol>	46G2227 46G3934 FI00830 FI00131 46G2599 17G1500 42F7300
9201	Tape unit command timeout  Before exchanging any parts, do the following: <ol style="list-style-type: none"> <li>1. Ensure that the device is powered on.</li> <li>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.</li> <li>3. Ensure that the terminating plug is attached to the device.</li> </ol>	46G2227 46G3934 FI00830 FI00131 46G2599 17G1500 42F7300

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"> <li>1. Ensure that the device is powered on.</li> <li>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.</li> <li>3. Ensure that the terminating plug is attached to the device.</li> </ol>	<p>46G2227 46G3934 FI00830 FI00131 46G2599 17G1500 42F7300</p>
9210	Illegal or unsupported tape unit response	<p>46G2227 FI00130 FI00131</p>
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>	<p>46G2227 ML2TMED 46G3934 42F7300</p>
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>	<p>46G2227 ML2TMED 46G3934 42F7300</p>
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>ML2TMED 46G2227 46G3934 42F7300</p>
9310	Licensed Internal Code for the tape unit is not correct	<p>46G2227 FI00130</p>
9320	Tape device Licensed Internal Code failure	<p>FI00130 46G2227</p>
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>ML2TMED 46G2227 46G3934 42F7300</p>
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>	<p>ML2TMED UL2CLN 46G2227</p>
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>	<p>UL2USR1 ML2TMED UL2CLN 46G2227</p>

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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"> <li>• Wait for next IPL when the system will attempt to load the LIC for the tape drive again.</li> <li>• 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.</li> </ul>	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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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

*For use by service providers.*

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

For use by service providers.

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.	
03xx	Tape unit detected an error on the tape medium Read (or write) errors may be caused by: <ul style="list-style-type: none"> <li>• Poor or damaged tape</li> <li>• Dirty read/write heads</li> <li>• Damaged data cartridges</li> <li>• Using a data cartridge previously recorded in a format or density that is not correct</li> <li>• Using the wrong data cartridge (for example, one in a different format or density from another set of data cartridges)</li> </ul> Do the following: <ol style="list-style-type: none"> <li>1. Clean the tape unit and retry the operation.</li> <li>2. If cleaning the tape unit does not correct the problem, exchange the tape media.</li> </ol>	
04xx	Tape unit failure The tape drive reported a hardware error to the IOP; the amber light on the tape drive may be blinking. Refer to the 9427 8mm Tape Cartridge Library Service Guide.	
3xxx	Device or interface error. Refer to the 9427 8mm Tape Cartridge Library Service Guide.	
4016 to 4017	Licensed Internal Code for the tape unit is not correct	AJEDA00

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"> <li>• 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.</li> <li>• A device type or model that is not given support.</li> </ul>	ULYCNFG 86G9251 FI00130 86G9254
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"> <li>1. Ensure that the device is powered on.</li> <li>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.</li> <li>3. Ensure that a terminating plug is attached to the device.</li> </ol>	86G9251 FI00131 86G9254 EXTSCSI 86G9255 86G9274 17G9134 FI00130
9200	I/O processor addressed the tape unit; no response  Before exchanging any parts, do the following: <ol style="list-style-type: none"> <li>1. Ensure that the device is powered on.</li> <li>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.</li> <li>3. Ensure that the terminating plug is attached to the device.</li> </ol>	86G9251 86G9274 86G9254 FI00131 EXTSCSI 17G9134 87G1531 86G9255
9201	Tape unit command timeout  Before exchanging any parts, do the following: <ol style="list-style-type: none"> <li>1. Ensure that the device is powered on.</li> <li>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.</li> <li>3. Ensure that the terminating plug is attached to the device.</li> </ol>	86G9251 FI00131 86G9254 EXTSCSI 17G9134 86G9255 86G9274 FI00130
9202	Tape unit failed after Licensed Internal Code was loaded  Before exchanging any parts, do the following: <ol style="list-style-type: none"> <li>1. Ensure that the device is powered on.</li> <li>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.</li> <li>3. Ensure that the terminating plug is attached to the device.</li> </ol>	86G9251 86G9274 86G9254
9210	Illegal or unsupported tape unit response	86G9251 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.	86G9251 LIBDEV MLYTMED 86G9274 86G9255

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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	Licensed Internal Code for the tape unit is not correct	86G9251 FI00130
9320	Tape device Licensed Internal Code failure	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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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"> <li>• Wait for next IPL when the system will attempt to load the LIC for the tape drive again.</li> <li>• 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.</li> </ul>	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"> <li>• Wait for next IPL when the system will attempt to load the LIC for the tape drive again.</li> <li>• 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.</li> </ul>	ULYWAIT
FF4D	<p>I/O processor successfully recovered from temporary error</p> <p>No action required. This reference code is logged for information only.</p> <p>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.</p>	86G9251 FI00141 EXTSCSI 17G9134 86G9253 86G9255 AJSLC01
FF5D	<p>I/O processor successfully recovered from temporary error</p> <p>No action required. This reference code is logged for information only.</p> <p>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.</p>	86G9251 86G9253 EXTSCSI FI00141 17G9134 86G9255
FFF6	<p>Tape volume statistics logged (no action required)</p> <p>No action required. This reference code is logged for information only.</p>	
FFF8	<p>Asynchronous device attached; synchronous device expected</p> <p>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.</p>	86G9251
FFFE	<p>Tape unit detected a read error on the tape medium</p> <p>Perform the Action for reference code 03xx.</p>	MLYTMED 86G9251 86G9253
FFFF	<p>Tape unit detected a write error on tape medium</p> <p>Perform the Action for reference code 03xx.</p>	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
ULYCNFG	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

*For use by service providers.*

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 (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 <b>Enter</b> to perform the partition dump.	FSPSPD1

## A1xx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
A1003042	Confirm platform dump (operator 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 <b>Enter</b> to perform the platform dump.	FSPSPD1
A1003043	Confirm service processor dump (operator 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 <b>Enter</b> to perform the service processor dump.	FSPSPD1
A1008008	Confirm fast power-off (operator panel function 08)  This attention code is displayed on the operator 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 <b>Enter</b> to perform the fast power-off.	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

*For use by service providers.*

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 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	A problem occurred during the IPL of a partition.  The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC.  This is a partitioning configuration problem. The LPARCFG Symbolic FRU will help correct the problem.  If the problem persists, call your next level of support.	LPARCFG
1225	A problem occurred during the IPL of a partition.  The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC.  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.	SVCDOCS

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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.</p> <p>This is a partitioning configuration problem. The partition is lacking the necessary resources to IPL.</p>	LPARCFG LICCODE
1260	<p>A problem occurred during the IPL of a partition.</p> <p>The partition identified in the xx field of the B2xx SRC could not IPL at the Timed Power On setting because the IPL setting of the partition was not set to Normal.</p>	SVCDOS
1265	<p>A problem occurred during the IPL of a partition.</p> <p>The partition identified in the xx field of the B2xx SRC could not IPL.</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>	SVCDOS
1266	<p>A problem occurred during the IPL of a partition.</p> <p>The partition identified in the xx field of the B2xx SRC could not IPL.</p> <p>You are attempting to IPL an operating system that is not supported.</p>	SVCDOS
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. 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>	SVCDOS
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. 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>	SVCDOS
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. The IOA for the load source device needed an IOP, and none was detected. Check your LPAR config 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. 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

## A2xx, B2xx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
2250	<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. 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
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. 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	<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. The platform LIC for this partition attempted an operation. There was a failure. Contact your next level of support.</p>	NEXTLVL
2425	<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. The platform LIC for this partition attempted an operation. There was a failure. Contact your next level of support.</p>	NEXTLVL
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. 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. 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
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. The platform LIC for this partition attempted an operation. There was a failure. Contact your next level of support.</p>	NEXTLVL
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. 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. 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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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.</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. 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	
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.</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. 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. 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. 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. 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>	SVCDOS

## A2xx, B2xx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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.</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>	
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. 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. 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. 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. 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. 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
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. There was an error writing the partition's main storage dump to the partition's load source.</p>	NEXTLVL
5135, 5137, 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. There was an error writing the partition's main storage dump to the partition's load source.</p>	NEXTLVL

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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. 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. 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
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. The partition's LID failed to completely load into the 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.</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.</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.</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. Error on load source device.</p>	LSERROR
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. 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>	

## A2xx, B2xx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
8080	System log entry only, no service action required	
8081	A problem occurred during the IPL of a partition.  The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC. An internal LIC timeout has occurred. The partition may continue to IPL but it may experience problems while running.	LICCODE
8105	A problem occurred during the IPL of a partition.  The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC. There was a failure loading the VPD areas of the partition. The load source media has been corrupted or is unsupported on this system.	LSERROR
8107	A problem occurred during the IPL of a partition.  The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC. There was a problem getting a segment of main storage in the platform's main store.	LICCODE
8109	A problem occurred during the IPL of a partition.  The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC. A failure occurred. The IPL is terminated. Ensure that there is enough memory to IPL the partition.	LICCODE
8112	A problem occurred during the IPL of a partition.  The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC. A failure occurred. The IPL is terminated.	LICCODE
8113	A problem occurred during the IPL of a partition.  The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC. A problem occurred on the path to the load source for the partition.  There was an error mapping memory for the partition's IPL. Call your next level of support.	LICCODE
8114	A problem occurred during the IPL of a partition.  The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC. A problem occurred on the path to the load source for the partition.  There was a failure verifying VPD for the partition's resources during IPL. Call your next level of support.	LICCODE
8115	A problem occurred during the IPL of a partition.  The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC. There was a low level partition to partition communication failure.	LICCODE
A100 to A101	A problem occurred after a partition ended abnormally.  The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC. This partition could not stay running and shut itself down.  Work any error logs in the Serviceable Event View. If there are no errors, contact your next level of support.	SVCDOS
B07B	System log entry only, no service action required	



Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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. 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 reIPLed before that partition can be used. Call 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. There was a communications problem between this partition and code that handles resource allocation. Call your next level of support.</p>	LICCODE
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. 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>	SVCDOS
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. 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 to F005	<p>A problem occurred during a power off of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC. This partition had a communications problem.</p> <p>Capture a Partition Dump and call 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. 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 of a partition.</p> <p>The partition ID is characters 3 and 4 of the B2xx reference code in word 1 of the SRC. 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

## (A6xx, B6xx) Licensed Internal Code reference codes

*For use by service providers.*

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.

## A6xx, B6xx

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"> <li>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.</li> <li>2. See the following table (Table 2) and find the unit reference code.</li> </ol>
11 B6xx xxxx	<p>The Licensed Internal Code detected a failure.</p> <ol style="list-style-type: none"> <li>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.</li> <li>2. See the following table (Table 2) and find the unit reference code.</li> <li>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"> <li>a. Examine the date and time of the informational reference codes.</li> <li>b. Determine if any other reference codes were logged at or before the same date and time.</li> <li>c. Start the service approach based on these other logged errors.</li> </ol> </li> </ol>

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"> <li>1. Examine the date and time of the informational reference code.</li> <li>2. Determine if any other reference codes have been logged at or before the same date and time.</li> <li>3. Begin the service approach based on these other logged errors.</li> </ol>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0102	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 your Software Service Provider.	
0103	Main storage dump must be copied for service.  Perform LICIP01.	
0104	Terminate Immediate reference code is bad  Perform LICIP08.	AJDG301
0105	More than one request to terminate the system was issued  Perform LICIP08.	AJDG301
0106	Terminate Immediate data is not valid  Perform LICIP08.	AJDG301
0202	Unrecoverable read error  Restore the Licensed Internal Code using "Licensed Internal Code Install and Restore" in the <i>iSeries Service Functions</i> information.	
0210	The system ASP has run out of disk storage  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.	
0244, 0255, 0266	Contact was lost with the device indicated  Do not power off the system.  Perform LICIP13.	FI00580 FI00500 FI00302 FI00301 AJDG301
0277	A compression disk unit cannot complete an operation.  <b>Note:</b> Do not power off the system when performing this procedure.  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.  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.  If these characters are 8400 or 2000, the compression disk unit is full of data. The command to the compression disk is being held. Ask the customer to perform the recovery actions in the "Disk Unit Full Considerations" section of the Backup and Recovery Guide, SC41-5304.	
0302	Recursion in exception handler  Perform LICIP08.	AJDG301

## A6xx, B6xx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0304	Component specific exception handler return code not valid Perform LICIP08.	AJDG301
0305	Exception while storage management lock is held Perform LICIP08.	AJDG301
0307 to 0308	LIC exception code detected a problem Component Specific Exception Handler recursion is detected in an OS/400 process. Perform LICIP08.	AJDG301
0317	Traceback for code not found Perform LICIP08.	AJDG301
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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	Enqueuing 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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
1604	Not able to create APPN task  An error occurred during task creation which requires a power off of the system.  Perform LICIP08.	AJDG301
1724	An attempt to create a segment failed  The create could fail for two reasons: <ul style="list-style-type: none"> <li>• A code problem Perform LICIP08.</li> <li>• No free auxiliary storage on the system Add additional DASD if the create failed because no auxiliary storage was available.</li> </ul>	AJDG301
1730	An IPL is needed to restore system performance  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.  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.  For more information, contact IBM Service Support.	GG3PL01
3000	Logical partition service function Main Storage Dump.  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").	AJDG301
4401	Missing DASD units.  Copy the current main storage dump to media.  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").	

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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"> <li>• Make room in the designated ASP and then use the MSD Manager to copy the current platform dump to ASP.</li> <li>• Use the MSD Manager to delete other dump copies, then copy the current platform dump to ASP.</li> <li>• Use the MSD Manager to copy the current platform dump to a different ASP.</li> <li>• Use the MSD Manager to copy the current platform dump to media.</li> </ul>	
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



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

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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 UG3USR1 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 UG3USR1 AJDG301 FI00380
5005	Service program failed  The workstation adapter system console failed to respond.  Perform WSAIP01.	FI00320 FI00602 UG3USR1 AJDG301 FI00380
5007	Service program failed  The workstation adapter console failed to respond.  Perform RTRIP07 to determine which isolation procedure to perform.	FI00320 FI00602 UG3USR1 AJDG301 FI00380
5008	DST console failed to respond  Perform OPCIP03.	FI00719

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5010	IPL service function ended abnormally  Perform LICIP04.	AJDG301
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 UG3USR1
5083	IPL service function ended abnormally  A service program lost contact with the system console.  Perform TWSIP01.	AJDG301 UG3USR1
5090	System startup failed in unattended IPL mode  Perform the following: <ul style="list-style-type: none"> <li>• If reference code A6005090 is displayed on the control panel for more than 10 minutes, perform LICIP11.</li> <li>• For reference code B6005090, perform LICIP11.</li> </ul>	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

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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	<p>Addressed device failed to respond to selection</p>	DISKDRV STORIOA DISKTRY FI01106 FI01140 FI01141 DEVTERM BACKPLN
5127	<p>IOP timed out a disk command</p>	DISKDRV STORIOA FI01106 DISKTRY FI01140 FI01141 DEVTERM BACKPLN
5128	<p>I/O processor failure</p>	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>	UG3USR1
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>	UG3USR1 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

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"> <li>• Non-configured disk unit which was previously a load source on a partitioned system.</li> <li>• Load source configuration data does not match partition for which it is being used.</li> <li>• Load source configuration data does not match system serial number for which it is being used.</li> <li>• Load source configuration data is newer than primary partition configuration data.</li> </ul> <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>	

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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"> <li>• A primary partition Type D IPL is performed.</li> <li>• The I/O Adapter is moved to an operating system partition.</li> <li>• An error causes the logical partition (LPAR) configuration to not be used.</li> </ul> <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><a href="http://www.ibm.com/eserver/series/lpar">http://www.ibm.com/eserver/series/lpar</a></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>	

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

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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



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
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

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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

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"> <li>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.</li> <li>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.</li> <li>3. xxxx2015 - An card type was found that cannot be supported in the card position where it is located.</li> </ol> <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

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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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
696B	<p>Card slot could not be validated</p> <p>Vary off the I/O Adapter. Then do one of the following:</p> <p>-- 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> <p>OR</p> <p>-- 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>	
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>	<p>SI_PHB PRI_PCI MA_BRDG BRDGSET OPT_CLN</p>

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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>	<p>MA_BRDG MASBUS PIOCARD</p>
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>	<p>MA_BRDG</p>
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.</p> <p>Examine word 5 of the SRC.</p> <ul style="list-style-type: none"> <li>• If word 5 is not all zeros (0000 0000) , 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.</li> <li>• If word 5 is zero, find the failing item by using the Symbolic FRU SIIOADP.</li> </ul>	<p>BRDGSET SIIOADP MA_BRDG</p>

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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>	<p>SIOADP OPT_CLN</p>
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>	<p>HSL_LNK SIOADP SICNTRL REM_NIC OPT_CLN</p>
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>	<p>SIRGCFG</p>
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"> <li>1. 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"> <li>• 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.</li> <li>• 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.</li> <li>• 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.</li> <li>• 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.</li> </ul> </li> <li>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> </li> </ol> <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 -&gt; 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"> <li>• If there is a cable FRU in the serviceable event entry: <ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> </ol> </li> <li>• 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.</li> </ul>	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"> <li>• Optical speed encode</li> <li>• Broken optical links now operational</li> <li>• Other information</li> </ul>	
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"> <li>• A remote system or partition went off line due to a normal power off or disable of HSL Opticonnect.</li> </ul>	
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

**A6xx, B6xx**

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"> <li>• time out of a critical message</li> <li>• LIC code / table problem</li> <li>• Network deadlock detected</li> </ul> <p>The problem may be with:</p> <ul style="list-style-type: none"> <li>• The local system or partition</li> <li>• The remote system or partition</li> </ul> <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"> <li>• LIC problem where the local bus unit is off line.</li> <li>• LIC problem where the remote bus unit is off line.</li> </ul> <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
69E0	Bus Expansion Adapter card failed  Contact your next level of support.	FI00203 AJDG301
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	GG3COMM
7002	Lines not selected	GG3COMM
7003	Network interfaces not selected	GG3COMM

## A6xx, B6xx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
7004	<p>TCP/IP informational error</p> <p>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.</p> <p>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.</p>	
7055	<p>Statistics were logged, no service action required</p> <p>This reference code is logged for information only.</p>	
7100	<p>APPN session initiation attempt has timed out</p> <p>This reference code is used to indicate that LIC timed out on a request to initiate a session.</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>	<p>AJDG301 GG3PL03 GG3PL01 GG3PL02</p>
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>	<p>GG3PL04 GG3PL05 GG3PL06 AJDG301</p>
7102	<p>APPN CP-CP session ended.</p>	
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>	



Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
7205	Battery low condition was reset.  This reference code is for information only. The Uninterruptible Power System (UPS) is no longer reporting a battery low condition.	
7206	UPS reported bypass no longer active  This reference code is for information only. The Uninterruptible Power System (UPS) is no longer reporting a bypass active condition.	
7207	Battery Power Unit needs service  The replacement period for BPU 1, installed in the System Unit, has been exceeded.	FI00315
7208	Battery Power Unit needs service  The replacement period for BPU 2, installed in the System Unit, has been exceeded.	FI00315
7209	Battery Power Unit needs service  The replacement period for BPU 1, installed in the Expansion Unit, has been exceeded.	FI00315
720A	Battery Power Unit replacement dates do not match  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.	
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.	

## A6xx, B6xx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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 has 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  Configuration information from the disk unit could not be read. Look for other errors in the Service Action Log, or serviceable event view you are working with, and fix them.	
CFFC	Optical library device condition not expected  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.  Contact your hardware service provider.	OPTLCBL DRVSWCH
CFFD	Optical drive failure	OPTLDRV
CFFF	Media determined to be bad in Optical library	
F103	Main storage dump must be copied for service.  Perform LICIP01.	
F104	Logical partition service function Main Storage Dump.  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.  Perform LICIP01.	
F105	Licensed Internal Code detected error	NEXTLVL
FDC0	LIC program reported informational error  This reference code is logged for information only. No action required.	
FDC5	LIC program failed and data was captured  This reference code indicates first failure data capture (FFDC) data was collected for a problem reported by licensed internal code.  The user should dial IBM Software Support for assistance.	GG3FFDC

**Table 3. Licensed Internal Code failing items details**

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

Failing Item	Description	Document Description
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.
GG3COMM	Communications failure	
GG3FFDC	LIC program failed and data was captured	
GG3PL01	System performance problem	
GG3PL02	Network performance problem	
GG3PL03	Switched link activation failure message not answered	
GG3PL04	Transmission groups in the network must be activated	
GG3PL05	Class-of-service specified does not provide a route	
GG3PL06	COS acceptable TGs and nodes do not exist for the route	
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.
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.
NEXTLVL	Call your next level of support for assistance	Rio PIP 55
OPTDRV	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.

## A6xx, B6xx

Failing Item	Description	Document Description
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.
UG3USR1	Operator response required	

## (A7xx, B7xx) Licensed Internal Code reference codes

*For use by service providers.*

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.
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
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
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
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
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>	SVCDOCS
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 not 10000A01 the error is informational only. If word 2 is 10000A01 then record the SRC words and call your next level of support.</p>	NEXTLVL

## A7xx, B7xx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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>	SVCDOCS
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>	SVCDOCS
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
1730	<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 VPD for the system is not what was expected at IPL. The IPL will not continue. Call your next level of support.</p>	SVCDOCS
1731	<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 VPD for the system is not what was expected at IPL. Call your next level of support.</p>	CAPACTY
1732	<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 VPD for the system is not what was expected at IPL. The VPD on a processor card is not correct. Call your next level of support.</p>	NEXTLVL

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1733	<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 VPD for the system is not what was expected at IPL. The VPD on a memory card is not correct. Call your next level of support.</p>	NEXTLVL
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
4700 to 4701	<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>A problem occurred when initializing, reading, or using system VPD.</p>	CAPACTY
4703	<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 problem occurred when initializing, reading, or using system VPD.</p>	LICCODE
4704	<p>Platform LIC detected an error</p> <p>The Capacity on Demand function is no longer available. 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
4705	<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 problem occurred when initializing, reading, or using system VPD.</p>	LICCODE

## A7xx, B7xx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
4710	<p>Platform LIC detected an error</p> <p>This SRC is always of the form A700 xxxx.</p> <p>A communications problem with the service processor occurred.</p> <p>Look for errors with SRCs of the form B1xxxxxx or B7xx69xx in the Serviceable Event View. Work those errors. If no such errors are present, no service action is required.</p>	<p>SVCDOCS</p> <p>LICCODE</p> <p>CAPACTY</p>
4712	<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>A problem occurred when initializing, reading, or using system VPD.</p>	<p>CAPACTY</p>
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>	<p>SVCDOCS</p>
4715	<p>Platform LIC detected an error</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> <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, contact your next level of support.</p>	<p>SVCDOCS</p> <p>CAPACTY</p> <p>SVCPROC</p>
4716	<p>User intervention required</p> <p>The Capacity on Demand activation code recovery period has been started. Either obtain more capacity or allocate fewer resources.</p>	<p>SVCDOCS</p>
4730	<p>Platform LIC detected an error</p> <p>This SRC is always of the form A700 xxxx.</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 or allocate fewer resources.</p>	<p>SVCDOCS</p> <p>LPARCFG</p>
4731	<p>Platform LIC detected an error</p> <p>This SRC is always of the form A700 xxxx.</p> <p>A problem occurred initializing, reading, or using system VPD. No service action is required.</p>	<p>CAPACTY</p>
4733	<p>Platform LIC failure</p> <p>This SRC is always of the form A700 xxxx.</p> <p>A problem occurred initializing, reading, or using system VPD. No service action is required.</p>	<p>LICCODE</p>
4740	<p>Platform LIC detected an error</p> <p>An incorrect activation code has been detected. Resources associated with this activation code have been disabled. Enter a valid activation code.</p>	<p>SVCDOCS</p>



Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
4741	Platform LIC detected an error  The number of allowable attempts to enter a valid activation code has been exceeded. A system IPL is required in order to retry entering a valid activation code.	SVCDOS
4742	Platform LIC detected an error  A communications problem with the service processor occurred. No Capacity on Demand changes can be made.  Look for errors with SRCs of the form B1xx xxxx or B7xx69xx in the Serviceable Event View. Work those errors first. 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. All temporary resources should be removed 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. All temporary resources should be removed 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.	SVCDOS
4780 to 4783	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, call your next level of support.	SVCDOS
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.	SVCDOS
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
5190	Operating System 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.  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.	SVCDOS

## A7xx, B7xx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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>	
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>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>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>	SIOADP 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>	SIOADP
6907	<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>	SIOADP LICCODE
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>	PRIPCI

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6909	System bus 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.	PRIPCI LICCODE
6970	PCI host bridge failure  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.	SIIOADP PRIPCI MA_BRDG MABIP50 PIOCARD
6971	PCI secondary bus failure  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.	MABIP51 MA_BRDG MASBUS PIOCARD
6972	System bus 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.	MA_BRDG PRIPCI
6973	System bus 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 first half of word 7 is not 0001, remove SVCPROC (the service processor) from the list of possible FRUs.	PIOCARD MA_BRDG SVCPROC PRIPCI MASBUS
6974	Multi-adapter bridge configuration change or 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.	MABRCFG PIOCARD
6980	Network Interface Controller (NIC) resource failure  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.  NOTE: A fiber optic cleaning kit may be required for optical HSL connections.	SICNTRL OPT_CLN
6981	High Speed Link (HSL) I/O bridge failure  If you find a B1xx SRC logged on the same tower as one of the FRUs here, then close this problem and work the B1xx SRC. Use the unit value of the location codes to determine if the tower is the same.  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.	SIIOADP

## A7xx, B7xx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6982	<p>High Speed Link (HSL) connection failure</p> <p>If you find a B700 6981 error on the same RIO loop in the serviceable event view, then close this problem and work the B700 6981 error. Use the second half of word 5 to determine the loop number.</p> <p>If a system or IO tower on the RIO loop has powered down normally, this error may be ignored. Check to see that the RIO loop is complete when the system or IO Tower is powered back on.</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>	HSL_LNK OPT_CLN FRPORT TOPORT
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"> <li>• 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.</li> <li>• xxxx 3200 indicates there are clustered system(s) on loop with SPD migrated tower Migration towers that are not supported. You will need to remove them.</li> <li>• xxxx 3201 indicates there are clustered systems on multiple HSL/RIO loops. You will need to ensure all clustered systems are on the same HSL/RIO loop.</li> </ul> <p>This ends the procedure.</p>	SIRGCFG
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>	SVCDOCS

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 error only if the first half of SRC word 4 is 3205. Other values indicate the failed loop condition was changed to operational.</p> <p>If you find a B700 6981 or a B700 6986 error on the same RIO loop in the serviceable event view, then close this problem and work the error you just found. Use the second half of word 5 to determine the loop number.</p> <p>If a system or IO tower on the RIO loop has powered down normally or not powered on at this IPL, this error may be ignored. Check to see that the RIO loop is complete when the system or IO Tower is powered back on.</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>	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 to 6992	<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
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

## A7xx, B7xx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6994	Service processor failure  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 Serviceable Event View is not available then use the failing item list presented here for servicing this reference code.	SVCPROC
C2AC	System log entry only, no service action required  The Capacity on Demand License acceptance has completed.  No corrective action is required.	SVCDOCS
F103	Platform LIC failure  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 LIC detected an internal problem.  Collect all the SRC words and the platform system dump, then contact your next level of support.	LICCODE
F105	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.  The platform LIC detected an internal problem.  Collect all the SRC words and the platform system dump, then contact your next level of support.	NEXTLVL

## (A9xx, B9xx) Reference codes

*For use by service providers.*

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

*For use by service providers.*

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. 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
AA060007	A keyboard was not found  Ensure that a keyboard is attached to the USB port assigned to the partition.	
AA00E158	Waiting for an SMS terminal to be created on the HMC  Open a virtual terminal window on the HMC.	
AA00E159	Waiting for the serial connection to the service processor to be established  Check the serial connection to the service processor. Correct all problems that are found.	
AA00E1A8	The system is booting to the open firmware prompt	PFW1548
AA00E1A9	The system is booting to the System Management Services (SMS) menus	PFW1548
AA00E1F3	Admin access password prompt  On the firmware console, enter the password for the admin user of the service processor	FWPWD

## (B001) Reference codes

*For use by service providers.*

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

**B001**

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>	<p>UJ0E3 FI00704 UJA35</p>
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>	<p>UJ0E3 FI00704</p>
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>	<p>UJ0E3 UJA35</p>
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>	<p>UJ0E3 FI00705 UJA35</p>
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>	<p>UJ0E3 UJA35</p>
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>	<p>UJ0E3 FI00704</p>
4594	Wrong telephone number specified in system configuration	<p>UJA35 LICCODE</p>
5000	Wrong command sent by Licensed Internal Code	LICCODE
5001	Procedure error in Licensed Internal Code	LICCODE
5002	<p>Procedure error in Licensed Internal Code</p> <p>Procedure error in machine instructions</p>	<p>UJE34 LICCODE</p>
5003	Procedure error in Licensed Internal Code	<p>LICCODE UJA34</p>
5004	Incorrect command value sent by Licensed Internal Code	LICCODE
5005 to 5006	Procedure error in Licensed Internal Code	LICCODE



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

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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	LICCODE UJA35
50F1	Communications line not installed	LICCODE 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 LICCODE
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	LICCODE UJA34
52E5	Incorrect command value sent by Licensed Internal Code	LICCODE
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

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 LICCODE 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

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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

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 LICCODE
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

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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	LICCODE 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 LICCODE
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
571A	Retry limit reached for sending frames to remote equipment	LICCODE 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	LICCODE 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	LICCODE 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 LICCODE
5759	Wrong response received from remote equipment	UJA34 FI00700

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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	LICCODE FI00730
5776, 5778, 577A	Wrong response received from remote equipment	FI00700 FI00730
577C	Wrong response received from remote equipment	UJA34 FI00700 UJA35 FI00730 LICCODE
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



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 LICCODE UJA34
5801	Uncontrolled-not-ready time-out; error limit per 256 reached	LICCODE FI00704 UJA34 FI00701
5802	State-not-known time-out error; error limit per 256 reached	LICCODE 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

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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	LICCODE FI00704 UJA34 FI00701 FI00719
5811	Network type 2 time-out; error limit per 256 reached	UJA34 LICCODE FI00704 FI00705 UJ0E3
5812	Network type 3A time-out; error limit per 256 reached	UJA34 LICCODE FI00704 FI00705 UJ0E3

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 LICCODE FI00704 FI00705 UJ0E3
5814	Network type 4A time-out; error limit per 256 reached	FI00704 LICCODE UJA34
5815	Network type 4B time-out; error limit per 256 reached	UJA34 LICCODE FI00704 FI00705 UJ0E3
5816	Network type 5 time-out; error limit per 256 reached	FI00704 LICCODE UJA34
5817	Network type 6 time-out; error limit per 256 reached	FI00704 LICCODE UJA34
5818	Network type 7 time-out; error limit per 256 reached	FI00704 LICCODE UJA34
5819	Network type 20 time-out; error limit per 256 reached	LICCODE FI00704 UJA34 FI00701 FI00719
581A	Network type 21 time-out; error limit per 256 reached	FI00704 LICCODE 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

**B001**

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

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	LICCODE 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 LICCODE
5839	Incorrect command value sent by Licensed Internal Code	LICCODE
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	LICCODE
583D to 583E	I/O card Licensed Internal Code processed wrong command	FI00730
583F	Incorrect command value sent by Licensed Internal Code	LICCODE
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 LICCODE
5852	Network did not leave uncontrolled-not-ready condition	UJ0E3 FI00704 FI00701 LICCODE

## B001

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5853	Network remained in unknown condition	LICCODE FI00704 FI00701 FI00719
5854	Network time-out type 5 occurred	FI00704 LICCODE
5855	Network time-out type 6 occurred	FI00704 LICCODE
5870	Network time-out type 1 occurred	LICCODE FI00704 FI00701 FI00719
5871	Network time-out type 2 occurred	UJ0E3 FI00704 FI00705 LICCODE
5872	Network time-out type 3A occurred	UJ0E3 FI00704 FI00705 LICCODE
5873	Network time-out type 3B occurred	UJ0E3 FI00704 FI00705 UJA35 LICCODE
5874	Network time-out type 4A occurred	FI00704 LICCODE
5875	Network time-out type 4B occurred	UJ0E3 FI00704 LICCODE
5876	Network time-out type 7 occurred	FI00704 LICCODE
5877	Network time-out type 20 occurred	LICCODE FI00704 FI00701 FI00719
5878	Network time-out type 21 occurred	FI00704 LICCODE
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

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"> <li>• 5870</li> <li>• 5871</li> <li>• 5872</li> <li>• 5873</li> <li>• 5893</li> <li>• 5851</li> <li>• 5852</li> <li>• 5853</li> <li>• 587B</li> </ul> <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
LICCODE	Licensed Internal Code	Service Functions; APAR or LICTR
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



Failing Item	Description	Document Description
UJA34	DSRDRPTMR value in the CRTLNSDLC command	Communications Configuration
UJA34	LINESPEED value in CRTLNSDLC command	Communications Configuration
UJA34	NRZI value in CRTLNSDLC command	Communications Configuration
UJA34	INACTTMR value in CRTLNSDLC command	Communications Configuration
UJA34	CNNTMR value in CRTLNSDLC command	Communications Configuration
UJA34	SWTCNN, AUTOANS values in CRTLNSDLC command	Communications Configuration
UJA34	MAXFRAME value in CRTLNSDLC command	Communications Configuration
UJA34	SNBU, MODEMRATE, DUPLEX values in CRTLNSDLC command	Communications Configuration
UJA34	MODULUS value in CRTLNSDLC command	Communications Configuration
UJA34	FRAMERTY value in CRTLNSDLC command	Communications Configuration
UJA34	MAXCTL value in CRTLNSDLC command	Communications Configuration
UJA34	ACR SRCNAME value in CRTLNSDLC command	Communications Configuration
UJA34	EXCHID value in CRTCTL____ command	Communications Configuration
UJA34	SHMNODE value in CRTLNSDLC command	Communications Configuration
UJA34	NPRDRCVTMR value in CRTLNSDLC command	Communications Configuration
UJA34	Operator reset local controller (vary on/off) but not remote	Communications Configuration
UJA34	INTERFACE value in CRTLNSDLC command	Communications Configuration
UJA34	SHMNODE value in CRTLNSDLC command	Communications Configuration
UJA34	MAXOUT value in CRTLNSDLC command	Communications Configuration
UJA34	THRESHOLD value in CRTLNSDLC command	Communications Configuration
UJA34	RMTANSTMR value in the SDLC command	Communications Configuration
UJA34	RSRCNAME value in the CRTLNSDLC command	Communications Configuration
UJA34	IDL TMR value in CRTLNSDLC command	Communications Configuration
UJA34	ROLE value in CRTLNSDLC 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.	Problem Analysis; Symbolic FRU Isolation

**(B002) Reference codes**

*For use by service providers.*

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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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

## B002

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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 LICCODE
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	LICCODE FI00719 UJB35
4240	Adapter not installed	LICCODE FI00719 UJB35
4340	V.25 adapter not installed	LICCODE UJB35 FI00719 FI00702
4376	Automatic call unit already in use	LICCODE UJB35 UJC38
4502	Incorrect command value sent by Licensed Internal Code	LICCODE FI00730
4503	Incorrect command value sent by Licensed Internal Code	LICCODE
4504	Incorrect parts installed for BSC communications	LICCODE UJB35 UJB35 UJB35

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
4505 to 4506	Incorrect command value sent by Licensed Internal Code	LICCODE UJB35 FI00730 UJB35
4508 to 4509	Incorrect command value sent by Licensed Internal Code	LICCODE FI00730
450A	Incorrect command value sent by Licensed Internal Code	LICCODE FI00730 UJB35
450B	Incorrect command value sent by Licensed Internal Code	LICCODE FI00730
450E	Call type not permitted	LICCODE 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 LICCODE
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	LICCODE FI00730
5504	Incorrect command value sent by Licensed Internal Code	LICCODE UJB35
5505	Incorrect command value in I/O card LIC	FI00730
5520 to 5521, 5549	Incorrect command value sent by Licensed Internal Code	LICCODE FI00730
5590	Too many dial digits in call setup	UJB36
5630	Automatic call unit has distant-station-connected error	FI00700 UJ0E3 UJB35 FI00701 FI00719

## B002

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5632	Automatic call unit has data-set-ready error	FI00700 UJB36 FI00703 UJB36 UJB35 FI00701 FI00719 UJ0E3
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 LICCODE 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 LICCODE
5C68	Too many user connections attempted	LICCODE
5E00	Wrong or no external communications cable installed	UJB35 UJB35 UJB35 FI00701 FI00719

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
6288	Port not operational	FI00719 LICCODE 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 LICCODE
6C0A	Hardware detected failure	FI00719 FI00718
7210	Communications controller storage not available	UJB35 FI00730
7212	Communications program error	FI00730 LICCODE
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
LICCODE	VMC Licensed Internal Code	Service Functions; APAR or LICTR
UJ0E3	Communications network equipment	
UJB35	CTSTMR value in CRTLINBSC command	Communications Configuration

## B002

Failing Item	Description	Document Description
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
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

*For use by service providers.*

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



Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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 GNLINK 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 GNLINK FI00702
3207	Abandon-call-retry error; error limit per 256 reached	FI00703 CNGTHRS GNLINK 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 GNLINK 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	GNLINK CNGTHRS

## B003

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
4202	Received storage overrun; error limit per 256 reached	FI00730 CNGTHRS
4203	Incorrect stop bit; error limit per 256 reached	GONGLINK CNGLBPS CNGTHRS
4204	Receive-time-out error; error limit per 256 reached	CNGTHRS GONGLINK
4205	Number of characters discarded; error limit per 256 reached	GONGLINK CNGLBPS UJB37 CNGTHRS
4206	Procedure error in Licensed Internal Code	FI00730 AJDG301
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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

**B003**

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
CNGCCCL	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	

Failing Item	Description	Document Description
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
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

*For use by service providers.*

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

## B004

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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	LICCODE 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
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



Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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

**B004**

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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	LICCODE 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	LICCODE FI00730
7858	Licensed Internal Code sent incorrect command values	FI00751 FI00730
785A	Application sent not valid Q/M bit request sequence	UJ0E6 LICCODE 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	LICCODE FI00730
7874	Licensed Internal Code sent incorrect command values	FI00751 FI00730
7876	Wrong command value sent by OS/400 licensed program	LICCODE 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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
7F48	Time-out on clear packet	UJ0E9 UJJ36
7F80	Packet network used wrong procedures	UJ0E9 UJA36
7FA8	Received packet to help diagnosis	UJ0E9 FI00730

## B004

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
IOA	Communications adapter card	Repair and Parts; removal and installation procedures
LICCODE	OS/400 licensed program	Service Functions; APAR or LICTR
UJ0E2	Remote computer equipment	
UJ0E6	Remote computer equipment	
UJ0E6	Application program controlling the station	
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	DFTWDWSIZE value in CRTLINX25 command	Communications Configuration
UJJ35	DFTPKTSIZE 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

*For use by service providers.*

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	LICCODE
A003	Procedure error in I/O card Licensed Internal Code	LICCODE

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
A004 to A00C	Input value error in I/O card Licensed Internal Code	LICCODE
A00E	Procedure error in Licensed Internal Code	LICCODE
A010 to A012	Input value error in I/O card Licensed Internal Code	LICCODE
A013	Wrong config data given to local area network controller	LICCODE
A014 to A01F, A020 to A024	Input value error in I/O card Licensed Internal Code	LICCODE
A025	Procedure error in I/O card Licensed Internal Code	LICCODE
A027	Input value error in I/O card Licensed Internal Code	LICCODE
A028	Input value error in I/O card Licensed Internal Code	
A029	Procedure error in I/O card Licensed Internal Code	LICCODE
A02A to A02D	Input value error in I/O card Licensed Internal Code	LICCODE
A02E	Wrong frame received from remote equipment	UJE39
A02F	Input value error in I/O card Licensed Internal Code	LICCODE
A201	Token-Ring controller storage not available	LICCODE
A202 to A204	Input value error in I/O card Licensed Internal Code	LICCODE
A205	I/O card Licensed Internal Code received unexpected response	
A206 to A20B	Input value error in I/O card Licensed Internal Code	LICCODE
A20C	Input value error in I/O card Licensed Internal Code	LICCODE LICCODE
A213 to A214	Severe error detected by I/O card Licensed Internal Code	LICCODE
A402	Token-ring adapter card error	IOA LICCODE
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

## B005

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
A424	Token-ring adapter card error  Change the line speed parameter for the Token-ring card. <b>Note:</b> 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	LICCODE
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 LICCODE
A711	Frame not copied; error limit per 256 reached	UJE39 IOA LICCODE
A712	Transmit strip; error limit per 256 reached	IOA UJE37
A713	Access priority not authorized; error limit per 256 reached	LICCODE
A714	Frames not authorized; error limit per 256 reached	LICCODE
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	LICCODE UJE38

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
A721	Interrupts not expected; error limit per 256 reached	IOA
B000	I/O card Licensed Internal Code error	LICCODE
B003	Procedure error in Licensed Internal Code	LICCODE
B006	Token-ring error monitor has stopped	LICCODE
B009	Procedure error in Licensed Internal Code	LICCODE
B00A to B00B	Output value error in Licensed Internal Code	LICCODE
B0C0	Required I/O card Licensed Internal Code not active	FI00701 UJE35 UJE37 FI00712 IOA
B300	Procedure error in Licensed Internal Code	LICCODE
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	LICCODE
C003	Configuration report server is deactivating	LICCODE
C005	Configuration report server is activating	LICCODE
C010, C0E6	Procedure error in Licensed Internal Code	LICCODE
C0E7 to C0E8	Output value error in Licensed Internal Code	LICCODE
C0E9 to C0EB	Configuration report server activation failed	LICCODE
C0EE	I/O card Licensed Internal Code error	LICCODE
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	LICCODE
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	Problem Analysis; Symbolic FRU Isolation
IOP	Communications I/O processor card	Problem Analysis; Symbolic FRU Isolation
LICCODE	I/O processor Licensed Internal Code	Problem Analysis; Symbolic FRU Isolation
UJE31	Token-ring network manager program	Problem Analysis; Symbolic FRU Isolation
UJE32	Token-ring network manager program	Problem Analysis; Symbolic FRU Isolation
UJE33	Nearest active upstream node	Problem Analysis; Symbolic FRU Isolation

Failing Item	Description	Document Description
UJE34	Local area network busy because of maximum usage	Problem Analysis; Symbolic FRU Isolation
UJE35	Local Communications Adapter configuration	Problem Analysis; Symbolic FRU Isolation
UJE35	ADPTADR value in CRTLINTRN command	Problem Analysis; Symbolic FRU Isolation
UJE37	Token-ring network or remote station	Problem Analysis; Symbolic FRU Isolation
UJE38	Token-ring controller card work load exceeded	Problem Analysis; Symbolic FRU Isolation
UJE39	Remote computer equipment	Problem Analysis; Symbolic FRU Isolation
USER	User suspected communications problem.	Problem Analysis; Symbolic FRU Isolation

## (B006) Common Licensed Internal Code reference codes

For use by service providers.

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



Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1209	I/O processor was not ready for interrupt that occurred	AJ EQU00 FI00131
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	FI00131 ANYBUS AJ EQU00 AJ DG301
1212	A permanent I/O processor failure occurred	FI00131 AJ EQU00
1213	System bus error	AJ DG301 AJ EQU00 FI00131
1214 to 1215	I/O processor card or Licensed Internal Code error	FI00131 AJ EQU00
1301	I/O processor resource not available  An activation or deactivation failed to get a resource controlled by Licensed Internal Code.	CDAWKLD AJ DGP01 AJ DG301
1302	Not valid condition in I/O Processor Licensed Internal Code  An error in an activation or deactivation occurred.	AJ DGP01 AJ DG301 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 AJ DGP01 AJ DG301
1304	Not valid condition in I/O Processor Licensed Internal Code  The Licensed Internal Code has recovered from an unexpected condition.	AJ DGP01 AJ DG301 FI00131 FI00132
1305 to 1306	I/O processor card or Licensed Internal Code error  A microprocessor exception occurred on the I/O processor.	AJ DGP01 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.	AJ DGP01 AJ DG301 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.	AJ DGP01 AJ DG301 FI00131
1309	I/O processor was not ready for interrupt that occurred	AJ DGP01 FI00131 FI00132 FI01117

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.	
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
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
1318	I/O processor card error	FI00131
1403	Service processor Licensed Internal Code error  A resource needed to perform a requested function is not available in the Licensed Internal Code.	AJDGP01 SVCPROC
1404	Service processor Licensed Internal Code error  The Licensed Internal Code has recovered from an unexpected condition.	AJDGP01 SVCPROC
1405	Service processor Licensed Internal Code error  A recoverable microcode condition occurred on the Service processor.	AJDGP01 SVCPROC
1406	Service processor Licensed Internal Code failed  A microprocessor exception occurred on the Service processor.	AJDGP01 SVCPROC AJDG301
1407	Service processor Licensed Internal Code failed  The Licensed Internal Code could not allocate resources on the Service processor.	AJDGP01 SVCPROC AJDG301
1408	Service processor Licensed Internal Code failed	AJDGP01 AJDG301 SVCPROC
1409	Service processor Licensed Internal Code failed  The Service processor was not ready for an interrupt that occurred.	AJDGP01 SVCPROC

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1A01	I/O processor resource not available A deactivation failed to get a resource controlled by Licensed Internal Code.	CDAWKLD FI00130 AJDG301
1A02	Not valid condition in I/O Processor Licensed Internal Code An error in an activation or deactivation occurred.	FI00130 FI00131 FI00132
1A03	I/O processor resource not available A resource that is needed to perform a requested function is not available in the Licensed Internal Code.	FI00130 AJDG301 CDAWKLD
1A04	Recovered from condition in Licensed Internal Code. The Licensed Internal Code has recovered from a condition that was not expected.	FI00130 AJDG301 FI00131 FI00132
1A05 to 1A06	I/O processor card or Licensed Internal Code error A microprocessor exception occurred on the I/O processor.	FI00130 FI00131 FI00132
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. <b>Note:</b> 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
AJDG301	Licensed Internal Code	Service Functions; APAR or LICTR
AJDGP01	Licensed Internal Code	Service Functions; APAR or LICTR
AJDGP01	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
AJEQU00	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
ANYBUS	System bus	Problem Analysis; Symbolic FRU Isolation
BACKPLN	Card enclosure or backplane	Problem Analysis; Symbolic FRU Isolation
CDAWKLD	Too many communications lines in use	

## B006

Failing Item	Description	Document Description
IOACNFG	Configuration error	Problem Analysis; Symbolic FRU Isolation
SVCDOCS	Customer engineer directed to system problem analysis	Problem Analysis; Symbolic FRU Isolation
SVCPROC	Service Processor Card	Problem Analysis; Symbolic FRU Isolation

## (B008) Reference codes

*For use by service providers.*

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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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	LICCODE
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

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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	LICCODE UJJ35
50E4	Wrong command value sent by OS/400 licensed program	LICCODE
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	LICCODE
50F1	Communications adapter card not installed	LICCODE 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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
52E4	Wrong command value sent by OS/400 licensed program	LICCODE
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
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

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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 LICCODE
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 LICCODE
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 LICCODE FI00701 IOA



Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
57E0	Frame check error; error limit per 256 reached	UJ0E3 FI00705 FI00704
57E1	Overflow 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 LICCODE
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
IOA	Communications adapter card	Repair and Parts; removal and installation procedures
IOP	Communications I/O processor card	Repair and Parts; removal and installation procedures
LICCODE	OS/400 licensed program	Service Functions; APAR or LICTR
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.	

## (B009) Reference codes

For use by service providers.

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	LICCODE
A001	Input value error in I/O card Licensed Internal Code	LICCODE LICCODE
A002	Input value error in I/O card Licensed Internal Code	LICCODE
A003	Procedure error in I/O card Licensed Internal Code	LICCODE
A009 to A00A	Input value error in I/O card Licensed Internal Code	LICCODE
A013	Wrong configuration data given to Ethernet controller	LICCODE
A01B to A01D	Input value error in I/O card Licensed Internal Code	LICCODE
A01F	Input value error in I/O card Licensed Internal Code	LICCODE LICCODE
A020, A022 to A024, A027	Input value error in I/O card Licensed Internal Code	LICCODE
A028	Input value error in I/O card Licensed Internal Code	LICCODE LICCODE
A02A to A02D	Input value error in I/O card Licensed Internal Code	LICCODE
A201	Ethernet controller storage not available	LICCODE
A203 to A204	Input value error in I/O card Licensed Internal Code	LICCODE
A205	Licensed Internal Code received not correct response	LICCODE
A206, A208 to A20B	Input value error in I/O card Licensed Internal Code	LICCODE
A20C	Input value error in I/O card Licensed Internal Code	LICCODE LICCODE
A213 to A214	Serious error detected by I/O card Licensed Internal Code	LICCODE
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	LICCODE
A6C2, A6C5	Ethernet adapter card error	IOA
A6D1	Ethernet adapter card error	FI00720 FI00722

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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	LICCODE
A6D5 to A6D8	Wrong configuration data given to Ethernet controller	LICCODE
A6D9	Ethernet adapter card error	IOA FI00722 FI00720
A6E1	Ethernet adapter card error	LICCODE
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
A6F4	Unable to establish a network link.	UJE35 FI00722 UJE40 IOA
A801, A805	Input value error in I/O card Licensed Internal Code	LICCODE
A806	Input value error in I/O card Licensed Internal Code	LICCODE UJE35
A808	Input value error in I/O card Licensed Internal Code	LICCODE UJE36
A809 to A80A	Input value error in I/O card Licensed Internal Code	LICCODE
A80B	Input value error in I/O card Licensed Internal Code	LICCODE UJE36
A80C to A80F	Input value error in I/O card Licensed Internal Code	LICCODE
A810	Procedure error in Licensed Internal Code	LICCODE LICCODE
A811 to A812, A815	Procedure error in Licensed Internal Code	LICCODE
A816 to A817	Input value error in I/O card Licensed Internal Code	LICCODE
A818	Output value error in Licensed Internal Code	LICCODE
A819	Input value error in I/O card Licensed Internal Code	LICCODE

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
A81A to A81B	Procedure error in Licensed Internal Code	LICCODE LICCODE
A81C, A81E	Output value error in Licensed Internal Code	LICCODE
A81F	Procedure error in Licensed Internal Code	LICCODE
A822, A824	Input value error in I/O card Licensed Internal Code	LICCODE
A826 to A827	Procedure error in Licensed Internal Code	LICCODE LICCODE
A829	Output value error in Licensed Internal Code	LICCODE
A82A	Procedure error in Licensed Internal Code	LICCODE
A82D, A82F	Output value error in Licensed Internal Code	LICCODE
A830	Procedure error in I/O card Licensed Internal Code	LICCODE
A831	Procedure error in Licensed Internal Code	LICCODE LICCODE
A832	Output value error in Licensed Internal Code	LICCODE
A833	Output value error in Licensed Internal Code	LICCODE LICCODE
A834	Output value error in Licensed Internal Code	LICCODE
A836, A838	Procedure error in Licensed Internal Code	LICCODE
A839, A83B, A840, A842	Procedure error in Licensed Internal Code	LICCODE LICCODE
A844, AA06 to AA07	Output value error in Licensed Internal Code	LICCODE
AA11	Number of stations greater than allowed in configuration	UJE35 LICCODE
AA12	Not enough storage to process adapter command	LICCODE
AA15	Procedure error in I/O card Licensed Internal Code	LICCODE LICCODE
ACD0 to ACD1, ACD4 to ACD8	Input value error in I/O card Licensed Internal Code	LICCODE
AF0A to AF0B	Procedure error in Licensed Internal Code	LICCODE LICCODE
FFFF	User suspected communications problem.	USER

**Table 2. Failing items details**

Failing Item	Description	Document Description
IOA	Ethernet network adapter card	Repair and Parts; removal and installation procedures
LICCODE	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
LICCODE	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
LICCODE	OS/400 licensed program	Service Functions; APAR or LICTR
LICCODE	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
UJE35	SSAP value in CRTLINETH command	Communications Configuration
UJE35	MAXCTL value in CRTLINETH command	Communications Configuration
UJE35	DUPLEX value in CRTLINETH command	Communications Configuration

Failing Item	Description	Document Description
UJE35	LINESPEED 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

*For use by service providers.*

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
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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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 LICCODE
5000	Wrong command sent by Licensed Internal Code	LICCODE
5001	Procedure error in Licensed Internal Code	LICCODE
5002	Procedure error in Licensed Internal Code  Procedure error in machine instructions	UJE34 LICCODE
5003	Procedure error in Licensed Internal Code	LICCODE UJA34
5004	Incorrect command value sent by Licensed Internal Code	LICCODE
5005 to 5006	Procedure error in Licensed Internal Code	LICCODE
5007	Procedure error in Licensed Internal Code	LICCODE UJA34
5009	Incorrect command value sent by Licensed Internal Code	LICCODE
500A	Procedure error in Licensed Internal Code	LICCODE
500B to 500C	Incorrect command value sent by Licensed Internal Code	LICCODE
500D	Incorrect command value sent by Licensed Internal Code	LICCODE UJA34
500E to 500F, 5010 to 5014	Incorrect command value sent by Licensed Internal Code	LICCODE
5015	Procedure error in Licensed Internal Code	LICCODE
5016 to 5019	Incorrect command value sent by Licensed Internal Code	LICCODE
501A	Licensed Internal Code did not request enough storage	LICCODE
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 LICCODE FI00701 FI00730 FI00719

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
501E to 501F	Command value error in I/O card Licensed Internal Code	FI00730
5022	Procedure error in Licensed Internal Code	LICCODE
5023	Procedure error in Licensed Internal Code	LICCODE UJA34
5024 to 5025	Licensed Internal Code sent commands in wrong order	LICCODE FI00730
50E0	Wrong or no external communications cable installed	UJA34 UJA34 UJA34 FI00701 FI00719
50E1	Communications line already in use	LICCODE UJA34 UJA34
50E3 to 50E4	Wrong command value sent by OS/400 licensed program	LICCODE UJA34
50E5	Incorrect command value sent by Licensed Internal Code	LICCODE UJA34 UJA34 UJA34
50E6 to 50E7	Incorrect command value sent by Licensed Internal Code	LICCODE UJA34 FI00730 UJA34
50E8	Wrong command value sent by OS/400 licensed program	LICCODE
50E9, 50EB	Incorrect command value sent by Licensed Internal Code	LICCODE UJA34
50EC to 50ED	Wrong command value sent by OS/400 licensed program	LICCODE
50EE	Incorrect command value sent by Licensed Internal Code	LICCODE
50EF	Wrong number of dial digits in telephone number	UJA35 FI00703 FI00719 FI00702
50F0	No telephone number provided for the call command	LICCODE UJA35
50F1	Communications line not installed	LICCODE 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



Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5205	I/O card Licensed Internal Code response not correct	FI00730 LICCODE
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	LICCODE UJA34
52E5	Incorrect command value sent by Licensed Internal Code	LICCODE
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 LICCODE 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

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
56ED	Data-set-ready turn-on time-out on modem interface	FI00701 FI00704 FI00719 LICC0DE
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

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5712	No data received from remote equipment; time-out	LICCODE 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 LICCODE
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
571A	Retry limit reached for sending frames to remote equipment	LICCODE 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

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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	LICCODE 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	LICCODE 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 LICCODE
5759	Wrong response received from remote equipment	UJA34 FI00700
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5770	Incorrect command value sent by Licensed Internal Code	LICCODE FI00730
5776, 5778, 577A	Wrong response received from remote equipment	FI00700 FI00730
577C	Wrong response received from remote equipment	UJA34 FI00700 UJA35 FI00730 LICCODE
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
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

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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 LICCODE UJA34
5801	Uncontrolled-not-ready time-out; error limit per 256 reached	LICCODE FI00704 UJA34 FI00701
5802	State-not-known time-out error; error limit per 256 reached	LICCODE 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
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



Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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	LICCODE FI00704 UJA34 FI00701 FI00719
5811	Network type 2 time-out; error limit per 256 reached	UJA34 LICCODE FI00704 FI00705 UJ0E3
5812	Network type 3A time-out; error limit per 256 reached	UJA34 LICCODE FI00704 FI00705 UJ0E3
5813	Network type 3B time-out; error limit per 256 reached	UJA34 LICCODE FI00704 FI00705 UJ0E3
5814	Network type 4A time-out; error limit per 256 reached	FI00704 LICCODE UJA34
5815	Network type 4B time-out; error limit per 256 reached	UJA34 LICCODE FI00704 FI00705 UJ0E3
5816	Network type 5 time-out; error limit per 256 reached	FI00704 LICCODE UJA34
5817	Network type 6 time-out; error limit per 256 reached	FI00704 LICCODE UJA34

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5818	Network type 7 time-out; error limit per 256 reached	FI00704 LICCODE UJA34
5819	Network type 20 time-out; error limit per 256 reached	LICCODE FI00704 UJA34 FI00701 FI00719
581A	Network type 21 time-out; error limit per 256 reached	FI00704 LICCODE 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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
5832	Call-progress-signal type 72; error limit per 256 reached	UJ0E3 UJA35 UJA34
5833	Call-progress-signal; error limit per 256 reached	LICCODE 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 LICCODE
5839	Incorrect command value sent by Licensed Internal Code	LICCODE
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	LICCODE
583D to 583E	I/O card Licensed Internal Code processed wrong command	FI00730

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
583F	Incorrect command value sent by Licensed Internal Code	LICCODE
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 LICCODE
5852	Network did not leave uncontrolled-not-ready condition	UJ0E3 FI00704 FI00701 LICCODE
5853	Network remained in unknown condition	LICCODE FI00704 FI00701 FI00719
5854	Network time-out type 5 occurred	FI00704 LICCODE
5855	Network time-out type 6 occurred	FI00704 LICCODE
5870	Network time-out type 1 occurred	LICCODE FI00704 FI00701 FI00719
5871	Network time-out type 2 occurred	UJ0E3 FI00704 FI00705 LICCODE

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
5872	Network time-out type 3A occurred	UJ0E3 FI00704 FI00705 LICCODE
5873	Network time-out type 3B occurred	UJ0E3 FI00704 FI00705 UJA35 LICCODE
5874	Network time-out type 4A occurred	FI00704 LICCODE
5875	Network time-out type 4B occurred	UJ0E3 FI00704 LICCODE
5876	Network time-out type 7 occurred	FI00704 LICCODE
5877	Network time-out type 20 occurred	LICCODE FI00704 FI00701 FI00719
5878	Network time-out type 21 occurred	FI00704 LICCODE
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
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

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
58E2	Communications line not operational	FI00704 FI00701 FI00719 FI00730

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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"> <li>• 5870</li> <li>• 5871</li> <li>• 5872</li> <li>• 5873</li> <li>• 5893</li> <li>• 5851</li> <li>• 5852</li> <li>• 5853</li> <li>• 587B</li> </ul> <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
LICCODE	Licensed Internal Code	Service Functions; APAR or LICTR
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
UJA34	DSRDRPTMR value in the CRTLNSDLC command	Communications Configuration
UJA34	LINESPEED value in CRTLNSDLC command	Communications Configuration
UJA34	NRZI value in CRTLNSDLC command	Communications Configuration

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Failing Item	Description	Document Description
UJA34	INACTTMR value in CRTLINSDLC command	Communications Configuration
UJA34	CNNTMR value in CRTLINSDLC command	Communications Configuration
UJA34	SWTCNN, AUTOANS values in CRTLINSDLC command	Communications Configuration
UJA34	MAXFRAME value in CRTLINSDLC command	Communications Configuration
UJA34	SNBU, MODEMRATE, DUPLEX values in CRTLINSDLC command	Communications Configuration
UJA34	MODULUS value in CRTLINSDLC command	Communications Configuration
UJA34	FRAMERTY value in CRTLINSDLC command	Communications Configuration
UJA34	MAXCTL value in CRTLINSDLC command	Communications Configuration
UJA34	ACRSRCNAME value in CRTLINSDLC command	Communications Configuration
UJA34	EXCHID value in CRTCTL____ command	Communications Configuration
UJA34	SHMNODE value in CRTLINSDLC command	Communications Configuration
UJA34	NPRDRCVTMR value in CRTLINSDLC command	Communications Configuration
UJA34	Operator reset local controller (vary on/off) but not remote	Communications Configuration
UJA34	INTERFACE value in CRTLINSDLC command	Communications Configuration
UJA34	SHMNODE value in CRTLINSDLC command	Communications Configuration
UJA34	MAXOUT value in CRTLINSDLC command	Communications Configuration
UJA34	THRESHOLD value in CRTLINSDLC command	Communications Configuration
UJA34	RMTANSTMR value in the SDLC command	Communications Configuration
UJA34	RSRCNAME value in the CRTLINSDLC command	Communications Configuration
UJA34	IDLTM value in CRTLINSDLC command	Communications Configuration
UJA34	ROLE value in CRTLINSDLC 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**

*For use by service providers.*

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 LICCODE IOP
6602	An I/O processor Licensed Internal Code error occurred.	LICCODE IOA IOP
6603	Tampering of cryptographic card suspected.	IOA IOP LICCODE
6604	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
6611	I/O adapter hardware error detected	IOA LICCODE
6613	Tampering of cryptographic card suspected.	IOA LICCODE
6614	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 cryptographic adapter card. After the conditions have been corrected, vary off and then vary back on the device description associated with the cryptographic adapter card.	CARDTMP

Table 2. Failing items details

Failing Item	Description	Document Description
CARDTMP	Operating voltage or temperature range limit exceeded	Problem Analysis; Symbolic FRU Isolation
IOA	I/O adapter card	Problem Analysis; Symbolic FRU Isolation
IOP	I/O processor card	Problem Analysis; Symbolic FRU Isolation
LICCODE	Licensed Internal Code	Problem Analysis; Symbolic FRU Isolation

## (B014) Reference codes

*For use by service providers.*

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	

## B014

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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 LICCODE
B015	Carrier-detect dropped on modem interface	FI00701 UJ0E3 FI00704 FI00705 UJB35 LICCODE FI00719
B020	Clear-to-send signal did not come up in required time	FI00701 FI00704 UJB35 FI00719 LICCODE
B025	Clear-to-send signal did not drop in required time	FI00701 FI00704 UJB35 FI00719 LICCODE
B030	Remote equipment did not respond in time-out period	UJ0E3 FI00700 UJB35 FI00719 FI00704 LICCODE
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 LICCODE
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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 LICCODE
B090	Negative-acknowledgment received	UJ0E3 UJB35 UJB35 FI00719 UJE34 FI00704
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

## B014

Failing Item	Description	Document Description
LICCODE	OS/400 licensed program	Service Functions; APAR or LICTR
UJ0E3	External devices or network	
UJB35	STXLRC value in CRTLINBSC command	Communications Configuration
UJB35	DTASTRTY 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

*For use by service providers.*

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	LICCODE
A807	Input value error in I/O card Licensed Internal Code	FI00730 LICCODE
A814	Procedure error in Licensed Internal Code	LICCODE FI00730
A820	Procedure error in Licensed Internal Code	LICCODE
A821, A823	Input value error in I/O card Licensed Internal Code	LICCODE
A825, A837	Procedure error in Licensed Internal Code	LICCODE FI00730
A83C	Procedure error in Licensed Internal Code	LICCODE
A83D	Procedure error in Licensed Internal Code	FI00730
A845 to A847	Input value error in I/O card Licensed Internal Code	LICCODE
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	LICCODE

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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 LICCODE
AFFF	Procedure error in Licensed Internal Code	FI00730 UJE34

**Table 2. Failing items details**

Failing Item	Description	Document Description
LICCODE	LLCU Licensed Internal Code	Problem Analysis; Symbolic FRU Isolation
UJE34	Local area network busy because of maximum usage	Problem Analysis; Symbolic FRU Isolation
UJE35	MAXCTL value in CRTLINTRN command	Problem Analysis; Symbolic FRU Isolation
UJE36	Lack of I/O processor resources	Problem Analysis; Symbolic FRU Isolation
UJE39	Remote computer equipment	Problem Analysis; Symbolic FRU Isolation

## (B017) Reference codes

*For use by service providers.*

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

*For use by service providers.*

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. (B018) Reference codes**

## B018

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
6004	ABEND due to unrecoverable condition.	LICCODE
6005	IOP activation failed.	LICCODE
6006	Error in OS/400 code.	
6007	Error in OS/400 code.	LICCODE
6008 to 6009	External devices or network	
600A	IOP activation failed.	FI00701 GCCNET IOA
8001	ABEND due to unrecoverable condition.	LICCODE
8002	IOP activation failed.	LICCODE
8003	ABEND due to failure to communicate with system.	
8004	I/O adapter hardware error detected	IOA
8005	ABEND due to unrecoverable condition.	LICCODE
8006	IOP activation failed.	LICCODE
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
GCCNET	Network equipment	
IOA	Communications adapter card	Problem Analysis; Symbolic FRU Isolation
LICCODE	OPRS OS/400 licensed program	Problem Analysis; Symbolic FRU Isolation
LICCODE	I/O processor Licensed Internal Code	Problem Analysis; Symbolic FRU Isolation
UCCCONF	Configuration	

## (B019) Reference codes

*For use by service providers.*

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.	LICCODE
7005	IOP activation failed.	
7006	Error in OS/400 code.	
7007	Licensed Internal Code error	LICCODE
7008	Frame reject received from remote system.	LICCODE
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 LICCODE
7012	IDLC line description configuration error	
8001	ABEND due to unrecoverable condition.	LICCODE
8002	IOP activation failed.	LICCODE
8003	ABEND due to failure to communicate with system.	
8004	I/O adapter hardware error detected	IOA
8005	ABEND due to unrecoverable condition.	LICCODE
8006	IOP activation failed.	
8007	Error in OS/400 code.	

**Table 2. Failing items details**

Failing Item	Description	Document Description
CCELCFG	IDLC line description configuration error	Communications Configuration
GCERMT	Data link or remote data communications equipment	
IOA	Communications adapter card	Problem Analysis; Symbolic FRU Isolation
LICCODE	OPRS OS/400 licensed program	Problem Analysis; Symbolic FRU Isolation
LICCODE	I/O processor Licensed Internal Code	Problem Analysis; Symbolic FRU Isolation

**(B020) Reference codes**

*For use by service providers.*

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
8004	I/O adapter hardware error detected	FI00719

## B020

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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

*For use by service providers.*

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	LICCODE
C201 to C203	I/O card Licensed Internal Code ended abnormally	LICCODE
C240	Receive CRC errors; threshold limit reached	UNM36 UNU01 UNM31 UNM31 IOA
C241	Short frame errors; limit reached	UNU01 UNM36 UNM36 UNM31 LICCODE



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 LICCODE
C255	Set-asynchronous-balance-mode frame received in data mode	UNM36 UJE34
C257	Disconnect mode frame received when transmitting information	UNM36 LICCODE
C259	Unsolicited disconnect mode frame with final set received	UNM36 UNM31
C25C	Frame with an incorrect command field received	UNM36 LICCODE
C25D	Frame with an incorrect format received	UNM36 LICCODE
C25E	Frame with an incorrect NR count received	UNM36 LICCODE
C25F	I-frame with oversized data received	UNM36 LICCODE UNM31
C260	Disconnect retry limit reached	UNM36 UNU01
C261	Frame reject type W received	LICCODE UNM36
C262	Frame reject type X received	LICCODE UNM36
C263	Frame reject type Y received	LICCODE LICCODE
C264	Frame reject type Z received	LICCODE UNM36
C269	Frame with an incorrect format received	UNM36 LICCODE
C270	Wrong command received by communications controller	LICCODE
C274	Number of stations greater than allowed in configuration	LICCODE LICCODE

**B021**

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
C275	I/O card LIC followed incorrect procedure	LICCODE
C276, C278	Wrong command value received by communications IOP	LICCODE
C279	Wrong data length received by communications controller	LICCODE
C27A	Wrong command value received by communications IOP	LICCODE
C27C	Communications controller task ended abnormally; type 1	LICCODE
C281, C28B to C28C	Wrong command value received by communications IOP	LICCODE
C290	Wrong command value received by communications IOP	LICCODE LICCODE
C291 to C293	Licensed Internal Code sent incorrect command values	LICCODE LICCODE
C294	Licensed Internal Code sent incorrect command values	LICCODE LICCODE UNM31
C295	Wrong command value received by communications IOP	LICCODE LICCODE UNM31
C296	Licensed Internal Code sent incorrect command values	LICCODE LICCODE UNM31
C297	Licensed Internal Code sent incorrect command values	LICCODE LICCODE
C298	Licensed Internal Code sent incorrect command values	LICCODE LICCODE UNM31
C299	I/O card LIC followed incorrect procedure	LICCODE
C2A0	Wrong command value received by communications IOP	LICCODE LICCODE
C2A6	Frame retry limit reached	UNM36 UNM31 UNU01
C2A7	Error when assigning communications controller storage	UNM32 LICCODE
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 LICCODE
C2B4	Terminal endpoint identifier temporarily removed	UNM36 LICCODE
C2B5	OS/400 licensed program sent an incorrect configuration	LICCODE
C2B7	Manually assigned TEI removed permanently	UNM36 UNM31 LICCODE
C2C0	OS/400 licensed program sent an incorrect configuration	LICCODE

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

**B021**

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	LICCODE LICCODE
CA68	Licensed Internal Code sent an incorrect command	UNM31
CA6C	Wrong data length received by communications controller	LICCODE LICCODE
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.	LICCODE UNM36 LICCODE
CA79	ISDN Q.931 protocol error.	UNM36 LICCODE
CA80, CA82	Licensed Internal Code sent incorrect command values	LICCODE LICCODE
CA84	PTF is required to enable requested nettype	UNM38 LICCODE LICCODE
CA85 to CA86, CA88, CA8A, CA8C, CA8E, CA90, CA96, CA98, CA9A, CA9C, CAA0, CAA2, CAA4, CAA6, CAA8, CAAA, CAAC, CAAЕ, CAB0	Licensed Internal Code sent incorrect command values	LICCODE LICCODE
CAB2	Error during get configuration request	UNM32 LICCODE
CAB4	Resource or storage not available	UNM32 LICCODE LICCODE
CAB5 to CABF	OS/400 licensed program sent an incorrect configuration	LICCODE LICCODE
CAF0 to CAF1	I/O card Licensed Internal Code stopped because of error	LICCODE
D200	Loss of synchronization error; threshold limit reached.	UNM36 UNU01 74F1663 UNM31 UNM31
D201	Local end code violation, threshold limit reached.	UNU01 UNM36 74F1663 UNM31 UNM31

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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	LICCODE LICCODE
D212 to D217	Wrong command value sent by OS/400 licensed program	LICCODE LICCODE
D219	Wrong adapter type value sent by Licensed Internal Code	LICCODE
D21A	Wrong slot number value sent by Licensed Internal Code	LICCODE
D21B to D21C	Wrong command value sent by OS/400 licensed program	LICCODE LICCODE
D21D	Communications adapter card not installed	LICCODE LICCODE IOA
D21E	ISDN channel already in use	LICCODE LICCODE
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
D230	Channelized hardware error detected	IOA LICCODE
D232	I/O adapter hardware error detected	IOA LICCODE

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
D233	Error in I/O card Licensed Internal Code	LICCODE UNM32
D234	Error when releasing communications controller storage	LICCODE
D235	Error when assigning communications controller storage	UNM32 LICCODE
D236	ISDN channel hardware not operational	LICCODE LICCODE
D240 to D241	Error in I/O card Licensed Internal Code	LICCODE
D244	Error when releasing communications controller storage	LICCODE
D245	Error when assigning communications controller storage	UNM32 LICCODE
D246	Error in I/O card Licensed Internal Code	LICCODE
D247	Wrong command value received by communications IOP	LICCODE
D250	Incorrect command used by I/O card Licensed Internal Code	LICCODE
D251	Error in I/O card Licensed Internal Code	LICCODE
D260 to D266	OS/400 licensed program sent an incorrect configuration	LICCODE LICCODE
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
IOA	Communications adapter card	Repair and Parts; removal and installation procedures
LICCODE	PGMZ I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
LICCODE	ITIZ Licensed Internal Code	Service Functions; APAR or LICTR
UJE34	No failure found	Communications Configuration
UNM31	NETTYPE value in CRTNWIISDN command	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	ADTZ LCLNBRTYPE value in CRTNWIISDN command	Communications Configuration
UNM31	RETRANSMIT value in CRTNWIISDN command	Communications Configuration
UNM31	CRCRCV value in CRTNWIISDN command	Communications Configuration
UNM31	FRAMEALIGN value in CRTNWIISDN command	Communications Configuration
UNM31	SRDF SRVDIF value in CRTNWIISDN command	Communications Configuration
UNM31	THRESHOLD value in CRTNWIISDN command	Communications Configuration
UNM32	Heavy workload on communications controller card	Communications Configuration
UNM35	Remote ISDN U interface	

Failing Item	Description	Document Description
UNM36	RMTZ Data link or remote data communications equipment	
UNM36	Network equipment	
UNM36	External devices or network	
UNM38	Required PTF is not installed	
UNU01	ISDN physical interface	
USER	User suspected communications problem.	

## (B022) Reference codes

*For use by service providers.*

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	LICCODE
C201 to C203	I/O card Licensed Internal Code ended abnormally	LICCODE
C240	Receive CRC errors; threshold limit reached	UNM36 UMU01 UNU31 LICCODE IOA
C241	Short frame errors; limit reached	UNU02 UNM36 UNU31 UMU01 LICCODE
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 LICCODE UNU31
C250	Number of frames retransmitted exceeded threshold limit	UNM36 UMU01 UNU31
C251	Send sequence (Ns) count error threshold limit reached	UNM36 UMU01 LICCODE UNU31
C255	Set-asynchronous-balance-mode frame received in data mode	UNM36

## B022

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
C257	Disconnect mode frame received when transmitting information	UMN36 LICCODE
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 LICCODE
C25F	I-frame with oversized data received	UMN36 LICCODE
C260	Disconnect retry limit reached	UNM36 74F1663 UNU32 LICCODE
C261	Frame reject type W received	LICCODE UMN36
C262	Frame reject type X received	LICCODE UNM36
C263	Frame reject type Y received	LICCODE LICCODE
C264	Frame reject type Z received	UMN36 UNU02 LICCODE
C269	Frame with an incorrect format received	UMN36 LICCODE
C270	Wrong command received by communications controller	LICCODE
C274	Number of stations greater than allowed in configuration	LICCODE LICCODE
C275	I/O card LIC followed incorrect procedure	LICCODE LICCODE
C276	Wrong command value received by communications IOP	LICCODE LICCODE
C277	Wrong command received by communications controller	LICCODE LICCODE
C278	Wrong command value received by communications IOP	LICCODE LICCODE
C279	Wrong data length received by communications controller	LICCODE LICCODE
C27A	Wrong command value received by communications IOP	LICCODE LICCODE
C27C	I/O card Licensed Internal Code ended abnormally	LICCODE
C27F	I-frame with oversized data received	LICCODE LICCODE
C281, C28B to C28C	Wrong command value received by communications IOP	LICCODE
C290	Wrong command value received by communications IOP	LICCODE LICCODE



Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
C291 to C292	Licensed Internal Code sent incorrect command values	LICCODE UNU32 LICCODE
C293	Licensed Internal Code sent incorrect command values	LICCODE LICCODE UNU32 UNU31
C294	Licensed Internal Code sent incorrect command values	LICCODE LICCODE UNU31 UNU32
C295	Wrong command value received by communications IOP	LICCODE LICCODE UNU32 UNU31
C297	Licensed Internal Code sent incorrect command values	LICCODE LICCODE UNU32 UNU31
C298	Licensed Internal Code sent incorrect command values	LICCODE LICCODE
C299	I/O card LIC followed incorrect procedure	LICCODE LICCODE
C2A0, C2A2	Wrong command value received by communications IOP	LICCODE LICCODE
C2A6	Frame retry limit reached	UNM36 UNM36 UMU01 LICCODE UNU31 UNU32 UNU32 UNU31
C2A7	Error when assigning communications controller storage	UNM32 LICCODE
C2A9	Communications controller storage not available	UNM32
C2AA	ISDN B-channel transmit hang	UNM36 UMU01 LICCODE
C2AB	ISDN B-channel protocol mismatch detected	UNU02
C2C1 to C2C3	OS/400 licensed program sent an incorrect configuration	LICCODE LICCODE
C2C4	Configuration or OS/400 licensed program	LICCODE LICCODE
C2C5	OS/400 licensed program sent an incorrect configuration	LICCODE LICCODE
C2C6 to C2C7	OS/400 licensed program sent an incorrect configuration	LICCODE LICCODE UNU32

## B022

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
C2C8 to C2C9, C2CE to C2CF, C2D0	OS/400 licensed program sent an incorrect configuration	LICCODE LICCODE
C2D7 to C2D8	Licensed Internal Code sent incorrect command values	LICCODE
C2D9	Wrong command value received by communications IOP	LICCODE LICCODE
C2E0	I/O card LIC followed incorrect procedure	LICCODE LICCODE
C2E1	Licensed Internal Code sent incorrect command values	LICCODE LICCODE
C2E3 to C2EB	OS/400 licensed program sent an incorrect configuration	LICCODE LICCODE
D210	Wrong command received by communications controller	LICCODE LICCODE
D212 to D213, D216	Wrong command value sent by OS/400 licensed program	LICCODE LICCODE
D219	Wrong adapter type value sent by Licensed Internal Code	LICCODE
D21A	Wrong slot number value sent by Licensed Internal Code	LICCODE
D21C	Wrong command value sent by OS/400 licensed program	LICCODE LICCODE
D21D	Communications adapter card not installed	LICCODE LICCODE IOA
D21E	ISDN channel already in use	LICCODE LICCODE
D230	Channelized hardware error detected	LICCODE
D233	Error in I/O card Licensed Internal Code	LICCODE UNM32
D234	Error when releasing communications controller storage	LICCODE
D235	Error when assigning communications controller storage	UNM32 LICCODE
D236	ISDN channel hardware not operational	LICCODE LICCODE
D240 to D241	Error in I/O card Licensed Internal Code	LICCODE
D244	Error when releasing communications controller storage	LICCODE
D245	Error when assigning communications controller storage	UNM32 LICCODE
D246	Error in I/O card Licensed Internal Code	LICCODE
D247	Wrong command value received by communications IOP	LICCODE
D250	Incorrect command used by I/O card Licensed Internal Code	LICCODE
D251	Error in I/O card Licensed Internal Code	LICCODE

**Table 2. Failing items details**

Failing Item	Description	Document Description
74F1663	Locally attached external cable	System Problem Analysis information

Failing Item	Description	Document Description
IOA	Communications adapter card	Repair and Parts; removal and installation procedures
LICCODE	OPRS OS/400 licensed program	Service Functions; APAR or LICTR
LICCODE	I/O card Licensed Internal Code	Service Functions; APAR or LICTR
LICCODE	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
UMN36	Remote data communications equipment	
UMU01	ISDN physical interface	
UNM32	Heavy workload on communications controller card	Communications Configuration
UNM36	Data link or remote data communications equipment	
UNM36	Network equipment	
UNU02	Configuration problem in remote equipment	Communications Configuration
UNU31	IDLCCNNRTY value in the CRTLINIDLC command	Communications Configuration
UNU31	IDLCRSPTMR value in the CRTLINIDLC command	Communications Configuration
UNU31	THRS THRESHOLD 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
UNU31	IDLCWDWSIZE 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 CRTLCTL____ command	Communications Configuration

## (B025) Reference codes

*For use by service providers.*

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	LICCODE
A001	Input value error in I/O card Licensed Internal Code	
A013	Wrong configuration data given to Ethernet controller	LICCODE
A01B, A209	Input value error in I/O card Licensed Internal Code	LICCODE
A404	Ethernet adapter card error	IOA LICCODE
A6D5 to A6D6	Wrong configuration data given to Ethernet controller	LICCODE
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.	
A801	Adapter does not support user-configured adapter address	
B000	System log entry only, no service action required	

Table 2. Failing items details

Failing Item	Description	Document Description
IOA	Ethernet network adapter card	Repair and Parts; removal and installation procedures
IOP	I/O processor card	Problem Analysis; Symbolic FRU Isolation
LICCODE	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
LICCODE	OS/400 licensed program	Service Functions; APAR or LICTR
LICCODE	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
LICCODE	I/O processor Licensed Internal Code	Service Functions; APAR or LICTR
UJE35	SSAP value in CRTLINETH command	Communications Configuration
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	DSAP value in CRTCTL____command	Communications Configuration
UJE36	LANACKFRQ 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

For use by service providers.

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	LICCODE
A001 to A002	Input value error in I/O card Licensed Internal Code	LICCODE LICCODE
A003	Procedure error in I/O card Licensed Internal Code	LICCODE LICCODE
A013	Address error on communications IOP card	UJ9GC
A01B	Input value error in I/O card Licensed Internal Code	LICCODE
A01C	Input value error in I/O card Licensed Internal Code	LICCODE LICCODE
A01D	Input value error in I/O card Licensed Internal Code	LICCODE
A01F	Input value error in I/O card Licensed Internal Code	LICCODE LICCODE
A020, A022, A027	Input value error in I/O card Licensed Internal Code	LICCODE
A028, A02A	Input value error in I/O card Licensed Internal Code	LICCODE LICCODE
A02B	I/O card Licensed Internal Code error	LICCODE LICCODE
A02C	Input value error in I/O card Licensed Internal Code	LICCODE LICCODE
A02D	Input value error in I/O card Licensed Internal Code	LICCODE
A030	Procedure error in I/O card Licensed Internal Code	LICCODE
A201	Communications adapter detected storage access error	LICCODE LICCODE
A203 to A204	Input value error in I/O card Licensed Internal Code	LICCODE
A205	Licensed Internal Code received not correct response	LICCODE
A206	Input value error in I/O card Licensed Internal Code	LICCODE
A209	Procedure error in I/O card Licensed Internal Code	LICCODE
A20A to A20B	Input value error in I/O card Licensed Internal Code	LICCODE
A20C	Input value error in I/O card Licensed Internal Code	LICCODE LICCODE
A210	Procedure error in I/O card Licensed Internal Code	LICCODE
A213	I/O card Licensed Internal Code error	LICCODE
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	LICCODE

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
A6D4	Procedure error in I/O card Licensed Internal Code	LICCODE
A6D5	Input value error in I/O card Licensed Internal Code	LICCODE
A6D6 to A6D7	Adapter card detected not valid data	LICCODE
A710	I/O adapter hardware error detected	IOA
FFFF	User suspected communications problem.	USER

Table 2. Failing items details

Failing Item	Description	Document Description
IOA	Communications adapter card	Problem Analysis; Symbolic FRU Isolation
IOP	Communications I/O processor card	Problem Analysis; Symbolic FRU Isolation
LICCODE	LLC Vertical Licensed Internal Code	Problem Analysis; Symbolic FRU Isolation
LICCODE	Vertical Licensed Internal Code	Problem Analysis; Symbolic FRU Isolation
LICCODE	ACME-I/O card Licensed Internal Code	Problem Analysis; Symbolic FRU Isolation
UJ9GC	configuration	Problem Analysis; Symbolic FRU Isolation
UJ9GF	External devices or network	Problem Analysis; Symbolic FRU Isolation
USER	User suspected communications problem.	Problem Analysis; Symbolic FRU Isolation

## (B028) Reference codes

*For use by service providers.*

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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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	LICCODE
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

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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	LICCODE UJJ35
50E4	Wrong command value sent by OS/400 licensed program	LICCODE
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	LICCODE



Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
50F1	Communications adapter card not installed	LICCODE 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	LICCODE
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
5601	Data-set-ready state changed; error limit per 256 reached	FI00704
5602	Clear-to-send state changed; error limit per 256 reached	FI00704

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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 LICCODE
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 LICCODE

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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 LICCODE 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 LICCODE
5886	Automatic call unit switched link time-out; no answer	FI00703 IOA FI00702 UJ0E3
5E01	Call error; incoming call received during outgoing call	UJ0E3

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
IOA	Communications adapter card	Repair and Parts; removal and installation procedures
IOP	Communications I/O processor card	Repair and Parts; removal and installation procedures
LICCODE	OS/400 licensed program	Service Functions; APAR or LICTR
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

Failing Item	Description	Document Description
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	IDLTMR 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

*For use by service providers.*

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
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

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Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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

*For use by service providers.*

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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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	LICCODE 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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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



Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
782C	Licensed Internal Code sent commands in wrong order	FI00751 FI00730
7840, 7842, 7844	Licensed Internal Code sent incorrect command values	LICCODE 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	LICCODE FI00730
7858	Licensed Internal Code sent incorrect command values	FI00751 FI00730
785A	Application sent not valid Q/M bit request sequence	UJ0E6 LICCODE 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	LICCODE FI00730
7874	Licensed Internal Code sent incorrect command values	FI00751 FI00730
7876	Wrong command value sent by OS/400 licensed program	LICCODE 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

**B038**

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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
IOA	Communications adapter card	Repair and Parts; removal and installation procedures
LICCODE	OS/400 licensed program	Service Functions; APAR or LICTR
UJ0E2	Remote computer equipment	
UJ0E6	Remote computer equipment	
UJ0E6	Application program controlling the station	
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	DFTWDWSIZE value in CRTLINX25 command	Communications Configuration
UJJ35	DFTPKTSIZE value in CRTLINX25 command	Communications Configuration
UJJ36	X25CNNMTR 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

*For use by service providers.*

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

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	LICCODE
50E0	Wrong or no external communications cable installed	UJA34 UJA34 FI00701 IOA
50E1	Communications line already in use	LICCODE UJA34 UJA34
50E3 to 50E4	Wrong command value sent by OS/400 licensed program	LICCODE UJA34

## B040

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
50E5	Incorrect command value sent by Licensed Internal Code	LICCODE UJA34 UJA34 UJA34
50E6 to 50E7	Incorrect command value sent by Licensed Internal Code	LICCODE LICCODE UJA34 UJA34
50E8	Wrong command value sent by OS/400 licensed program	LICCODE
50E9, 50EB	Incorrect command value sent by Licensed Internal Code	LICCODE UJA34
50EC to 50ED	Wrong command value sent by OS/400 licensed program	LICCODE
50EE	Incorrect command value sent by Licensed Internal Code	LICCODE
50F1	Communications line not installed	LICCODE 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	LICCODE
52E0	Incorrect command used by I/O card Licensed Internal Code	LICCODE
52E1	Wrong procedure used in I/O card Licensed Internal Code	LICCODE
52E2	I/O card Licensed Internal Code resource not available	UJA33 UJA34 UJA34
52E4	Wrong command value sent by OS/400 licensed program	LICCODE 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	LICCODE
52EA	I/O card Licensed Internal Code error	LICCODE
5301	Adapter card receive error	LICCODE IOA
5302	Adapter card transmit error	LICCODE IOA
5401	Communications adapter card interrupt not expected	LICCODE IOA
54E1	Communications line not operational	IOA UJA34
56E8	Clear-to-send not active on modem interface	UJ0E3 UJA34 FI00704 FI00701 IOA

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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 LICCODE
56F1	Data-set-ready dropped on modem interface	FI00704 FI00701 UJ0E3 IOA
A000	Input value error in I/O card Licensed Internal Code	LICCODE
A001	Input value error in I/O card Licensed Internal Code	LICCODE LICCODE
A002 to A003	Input value error in I/O card Licensed Internal Code	LICCODE
A00E	Procedure error in Licensed Internal Code	LICCODE
A016	Input value error in I/O card Licensed Internal Code	LICCODE LICCODE
A01B to A01D	Input value error in I/O card Licensed Internal Code	LICCODE
A02D	Input value error in I/O card Licensed Internal Code	LICCODE LICCODE
A201	Frame Relay I/O adapter card storage not available	LICCODE
A204	Input value error in I/O card Licensed Internal Code	LICCODE
A205	I/O card Licensed Internal Code received unexpected response	LICCODE
A209 to A20B	Input value error in I/O card Licensed Internal Code	LICCODE
A210	Communications adapter card error	FI00701 IOA
A213	Severe error detected by I/O card Licensed Internal Code	LICCODE
A800	Network not responding.	UJ0E3 LICCODE
A801	Too many frames with bad receive sequence counts	UJ0E3 LICCODE
A807	Network not responding.	UJ0E3
AB00 to AB02	Incorrect configuration data for Frame Relay LIC	LICCODE
FFFF	User suspected communications problem.	UJ4UPPR

Table 2. Failing items details

Failing Item	Description	Document Description
IOA	Communications adapter card	Problem Analysis; Symbolic FRU Isolation
LICCODE	I/O card Licensed Internal Code	Problem Analysis; Symbolic FRU Isolation
LICCODE	OS/400 licensed program	Problem Analysis; Symbolic FRU Isolation

## B040

Failing Item	Description	Document Description
LICCODE	Vertical Licensed Internal Code	Problem Analysis; Symbolic FRU Isolation
UJ0E3	Communications network equipment	Problem Analysis; Symbolic FRU Isolation
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	Problem Analysis; Symbolic FRU Isolation
UJA34	MAXOUT value in CRTNWIFR command	Communications Configuration
UJA34	CTSTMR value in CRTNWIFR command	Problem Analysis; Symbolic FRU Isolation
UJA34	No failure found	Communications Configuration
UJA34	NRZI value in CRTNWIFR command	Communications Configuration
UJA34	AUTOANS, AUTODIAL, SWTCNN, CNN values in CRTNWIFR command	Problem Analysis; Symbolic FRU Isolation
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	Problem Analysis; Symbolic FRU Isolation
UJA34	LINESPEED value in CRTNWIFR command	Communications Configuration

## (B045) Reference codes

*For use by service providers.*

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. (B045) Reference codes**

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

**Table 2. Failing items details**

Failing Item	Description	Document Description
LICCODE	I/O Card Licensed Internal Code	Problem Analysis; Symbolic FRU Isolation

## (B070) Reference codes

*For use by service providers.*

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?  <b>Yes:</b> Perform the following procedures: 1. INT-PIP5 2. INT-PIP14  <b>No:</b> Perform TWSIP01.	FI00602 FI00601 GAU7777 GAU8888 FI00610 FI00615
0003	WS IOP detected parity error from device  Is the problem intermittent?  <b>Yes:</b> Perform the following procedures: 1. INT-PIP5 2. INT-PIP14  <b>No:</b> Perform TWSIP01.	FI00602 FI00601 GAU7777 FI00610
0004	Device detected parity error from WS IOP  Is the problem intermittent?  <b>Yes:</b> Perform the following procedures: 1. INT-PIP5 2. INT-PIP14  <b>No:</b> Perform TWSIP01.	FI00602 FI00601 GAU7777 FI00610
0005	WS IOP detected error when transmitting data  Is the problem intermittent?  <b>Yes:</b> Perform the following procedures: 1. INT-PIP5 2. INT-PIP14  <b>No:</b> Perform TWSIP01.	FI00602 FI00601 GAU8888 FI00610 FI00615
0006	WS IOP detected wrong data from device  Is the problem intermittent?  <b>Yes:</b> Perform the following procedures: 1. INT-PIP5 2. INT-PIP14  <b>No:</b> 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><b>Yes:</b> Perform the following procedures:</p> <ol style="list-style-type: none"> <li>1. INT-PIP5</li> <li>2. INT-PIP14</li> </ol> <p><b>No:</b> 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><b>Yes:</b> Perform the following procedures:</p> <ol style="list-style-type: none"> <li>1. INT-PIP5</li> <li>2. INT-PIP14</li> </ol> <p><b>No:</b> 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><b>Yes:</b> Perform the following procedures:</p> <ol style="list-style-type: none"> <li>1. INT-PIP5</li> <li>2. INT-PIP14</li> </ol> <p><b>No:</b> Perform TWSIP01.</p>	FI00602 FI00601 GAU7777 FI00610
0104	<p>Device detected parity error from WS IOP</p> <p>Is the problem intermittent?</p> <p><b>Yes:</b> Perform the following procedures:</p> <ol style="list-style-type: none"> <li>1. INT-PIP5</li> <li>2. INT-PIP14</li> </ol> <p><b>No:</b> Perform TWSIP01.</p>	FI00602 FI00601 GAU7777 FI00610
0105	<p>WS IOP detected error when transmitting data</p> <p>Is the problem intermittent?</p> <p><b>Yes:</b> Perform the following procedures:</p> <ol style="list-style-type: none"> <li>1. INT-PIP5</li> <li>2. INT-PIP14</li> </ol> <p><b>No:</b> 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><b>Yes:</b> Perform the following procedures:</p> <ol style="list-style-type: none"> <li>1. INT-PIP5</li> <li>2. INT-PIP14</li> </ol> <p><b>No:</b> Perform TWSIP01.</p>	FI00601 FI00602 GAU8888 FI00610
0107	<p>WS IOP detected wrong address from device</p> <p>Is the problem intermittent?</p> <p><b>Yes:</b> Perform the following procedures:</p> <ol style="list-style-type: none"> <li>1. INT-PIP5</li> <li>2. INT-PIP14</li> </ol> <p><b>No:</b> 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? <b>Yes:</b> Perform the following procedures: 1. INT-PIP5 2. INT-PIP14 <b>No:</b> 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? <b>Yes:</b> Perform the following procedures: 1. INT-PIP5 2. INT-PIP14 <b>No:</b> Perform TWSIP01.	FI00602 FI00604 GAU7777 GAU8888 FI00610 FI00615
0203	WS IOP detected parity error from device Is the problem intermittent? <b>Yes:</b> Perform the following procedures: 1. INT-PIP5 2. INT-PIP14 <b>No:</b> Perform TWSIP01.	FI00602 FI00604 GAU7777 FI00610

## B070

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><b>Yes:</b> Perform the following procedures:</p> <ol style="list-style-type: none"> <li>1. INT-PIP5</li> <li>2. INT-PIP14</li> </ol> <p><b>No:</b> Perform TWSIP01.</p>	FI00602 FI00604 GAU7777 FI00610
0205	<p>WS IOP detected error when transmitting data</p> <p>Is the problem intermittent?</p> <p><b>Yes:</b> Perform the following procedures:</p> <ol style="list-style-type: none"> <li>1. INT-PIP5</li> <li>2. INT-PIP14</li> </ol> <p><b>No:</b> 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><b>Yes:</b> Perform the following procedures:</p> <ol style="list-style-type: none"> <li>1. INT-PIP5</li> <li>2. INT-PIP14</li> </ol> <p><b>No:</b> Perform TWSIP01.</p>	FI00604 FI00602 GAU8888 FI00610
0207	<p>WS IOP detected wrong address from device</p> <p>Is the problem intermittent?</p> <p><b>Yes:</b> Perform the following procedures:</p> <ol style="list-style-type: none"> <li>1. INT-PIP5</li> <li>2. INT-PIP14</li> </ol> <p><b>No:</b> 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

## B070

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

*For use by service providers.*

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

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

**B075**

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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	GXC7777 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



Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
500D	Incorrect command value sent by Licensed Internal Code	AJDG301 CXCMAI
5022	Procedure error in Licensed Internal Code	AJDG301
5206	Communications controller storage not available	CXCBSY
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 CXC MRTY
5715	Remote equipment did not respond causing an idle-time-out	GXCLINK CXC RPTO FI00701 FI00704 CXC MRTY FI00705 CXCENCD FI00700 CXCDTAR FI00719

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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 CRTLNSDLC command	Communications Configuration
CXCCTSV	CTSTMR value in CRTLNSDLC command	Communications Configuration
CXCDTAR	LINESPEED value in CRTLNSDLC command	Communications Configuration
CXCENCD	NRZI value in CRTLNSDLC command	Communications Configuration
CXCINAT	INACTTMR value in CRTLNSDLC command	Communications Configuration
CXCMAXI	MAXFRAME value in CRTLNSDLC command	Communications Configuration
CXCMODU	MODULUS value in CRTLNSDLC command	Communications Configuration
CXCMRTY	FRAMERTY value in CRTLNSDLC command	Communications Configuration
CXCMSTA	MAXCTL value in CRTLNSDLC command	Communications Configuration

Failing Item	Description	Document Description
CXCNPRT	NPRDRCVTMR value in CRTLINS DLC command	Communications Configuration
CXCRPTO	IDL TMR value in CRTLINS DLC command	Communications Configuration
CXCSNDT	SHMNODE value in CRTLINS DLC command	Communications Configuration
CXCSTAD	STNADR value in CRTCTL____command	Communications Configuration
CXCTEMP	No failure found	Communications Configuration
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	
GXC EEEEE	Active device turned off	
GXCLINK	Communications network equipment	
UXCFF00	User suspected problem	

## (B1xx) Service processor firmware reference codes

*For use by service providers.*

A B1xx reference code indicates that an exception occurred in a service processor firmware-detected operation. To resolve any B1xx reference code, determine if the SRC requires a service action or if it is informational in nature (which does not require a service action).

If you already know the nature of your B1xx reference code, use the following links to see the appropriate information:

- For a B1xx SRC that requires a service action, see “(B1xx) Service processor firmware reference codes” on page 304 for further instructions.
- For a B1xx SRC that is informational, see “(B1xx) Service processor firmware reference code descriptions” on page 302 for a description of the error.

To determine the nature of the SRC, use Table 1. How to determine the nature of a (B1xx) reference code.

1. In the first column of the table, find the entry that indicates the location where you found the SRC.
2. In the second column for that entry, follow the instructions about how to determine the nature of the SRC.

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

Where you found the SRC	How to determine the nature of the SRC
AIX® error log	<p>After you find a B1xx SRC in the AIX error log, look in the AIX diagnostics results log.</p> <ul style="list-style-type: none"> <li>• If you find the same SRC in the AIX diagnostics results log, it requires a service action. See “(B1xx) Service processor firmware reference codes” on page 304 for instructions.</li> <li>• If you <b>do not</b> find the same SRC in the AIX diagnostics results log, it is informational. See “(B1xx) Service processor firmware reference code descriptions” on page 302 for a description of the error.</li> </ul>

## B1xx

Where you found the SRC	How to determine the nature of the SRC
Linux <sup>®</sup> error log	<p>After you find a B1xx SRC in the Linux error log, look in the Linux diagnostics results log.</p> <ul style="list-style-type: none"> <li>If you find the same SRC in the Linux diagnostics results log, it requires a service action. See “(B1xx) Service processor firmware reference codes” on page 304 for instructions.</li> <li>If you <b>do not</b> find the same SRC in the Linux diagnostics results log, it is informational. See “(B1xx) Service processor firmware reference code descriptions” for a description of the error.</li> </ul>
Product Activity Log (PAL)	<p>After you find a B1xx SRC in the PAL<sup>®</sup>, look in the Service Action Log (SAL).</p> <ul style="list-style-type: none"> <li>If you find the same SRC in the SAL, it requires a service action. See “(B1xx) Service processor firmware reference codes” on page 304 for instructions.</li> <li>If you <b>do not</b> find the same SRC in the SAL, the it is informational. See “(B1xx) Service processor firmware reference code descriptions” for a description of the error.</li> </ul>
Hardware Management Console (HMC) SRC history for either a partition or the server	<p>After you find a B1xx SRC in the HMC history for either a partition or the server, look in the Service Focal Point.</p> <ul style="list-style-type: none"> <li>If you find the same SRC in the Service Focal Point, it requires a service action. See “(B1xx) Service processor firmware reference codes” on page 304 for instructions.</li> <li>If you <b>do not</b> find the same SRC in the Service Focal Point, it is informational. See “(B1xx) Service processor firmware reference code descriptions” for a description of the error.</li> </ul>
Advanced System Management Interface (ASMI)	<p>Use the ASMI functions to display detailed information about the nature of the SRC.</p> <ul style="list-style-type: none"> <li>If the SRC requires a service action, see “(B1xx) Service processor firmware reference codes” on page 304 for instructions.</li> <li>If the SRC is informational, see “(B1xx) Service processor firmware reference code descriptions” for a description of the error.</li> </ul> <p><b>Note:</b> For more information, see Accessing the Advanced System Management Interface.</p>
Any other location	<p>If you find a B1xx SRC in any other location, or if the previous entries in this table do not apply, the SRC requires a service action.</p> <p>See “(B1xx) Service processor firmware reference codes” on page 304 for instructions.</p>

## (B1xx) Service processor firmware reference code descriptions

*For use by service providers.*

A B1xx reference code indicates that an exception occurred in a service processor firmware-detected operation. The following table offers a brief description of B1xx SRCs.

**Note:** To determine if the SRC is informational or requires a service action, see “(B1xx) Service processor firmware reference codes” on page 301.

**Table 1. (B1xx) Service processor reference code descriptions**

Reference Code	Description
B1101000 to B110FFFF	Processor subsystem event or error reported by the service processor.
B1111000 to B111FFFF	Processor FRU event or error reported by the service processor.
B1121000 to B112FFFF	Processor chip (including internal cache) event or error reported by the service processor.
B1131000 to B113FFFF	Processor unit (CPU) event or error reported by the service processor.
B1141000 to B114FFFF	Processor/system bus controller and interface event or error reported by the service processor.
B1201000 to B120FFFF	Memory subsystem event or error reported by the service processor.

Reference Code	Description
B1211000 to B121FFFF	Memory controller event or error reported by the service processor.
B1221000 to B122FFFF	Memory bus interface event or error reported by the service processor.
B1231000 to B123FFFF	Memory DIMM event or error reported by the service processor.
B1241000 to B124FFFF	Memory card/FRU event or error reported by the service processor.
B1251000 to B125FFFF	External cache event or error reported by the service processor.
B1301000 to B130FFFF	I/O subsystem event or error reported by the service processor.
B1311000 to B131FFFF	I/O hub (Remote I/O) event or error reported by the service processor.
B1321000 to B132FFFF	I/O bridge event or error reported by the service processor.
B1331000 to B133FFFF	I/O bus interface event or error reported by the service processor.
B1341000 to B134FFFF	I/O processor event or error reported by the service processor.
B1351000 to B135FFFF	SMA hub event or error reported by the service processor.
B1361000 to B136FFFF	Remote I/O loop and associated I/O hub event or error reported by the service processor.
B1371000 to B137FFFF	Remote I/O loop and associated I/O bridge event or error reported by the service processor.
B1381000 to B138FFFF	Processor Host Bridge (PHB) event or error reported by the service processor.
B1391000 to B139FFFF	EADS/EADS-X global event or error reported by the service processor.
B13A1000 to B13AFFFF	EADS/EADS-X slot event or error reported by the service processor.
B1401000 to B140FFFF	I/O adapter event or error reported by the service processor.
B1461000 to B146FFFF	I/O device event or error reported by the service processor.
B1501000 to B150FFFF	CEC hardware event or error reported by the service processor.
B1511000 to B152FFFF	Service processor event or error reported by the service processor.
B1551000 to B155FFFF	VPD device and interface event or error reported by the service processor.
B1561000 to B156FFFF	I2C device and interface event or error reported by the service processor.
B1571000 to B157FFFF	JTAG device and interface event or error reported by the service processor.
B1581000 to B158FFFF	Clock and control event or error reported by the service processor.
B1591000 to B159FFFF	Control panel event or error reported by the service processor.
B15A1000 to B15AFFFF	Time-of-day hardware (including the battery) event or error reported by the service processor.
B15B1000 to B15BFFFF	Storage/memory device on service processor event or error reported by the service processor.
B1601000 to B160FFFF	Power/cooling subsystem and control event or error reported by the service processor.
B1611000 to B161FFFF	Power supply event or error reported by the service processor.
B1621000 to B162FFFF	Power control hardware event or error reported by the service processor.
B1631000 to B163FFFF	Fan or other air moving device event or error reported by the service processor.
B1701000 to B170FFFF	Other event or error reported by the service processor.
B1711000 to B171FFFF	HMC subsystem and hardware event or error reported by the service processor.
B1721000 to B172FFFF	Test tool event or error reported by the service processor.
B1731000 to B173FFFF	Removal media event or error reported by the service processor.
B1741000 to B174FFFF	Multiple subsystems event or error reported by the service processor.
B1751000 to B175FFFF	Unknown, invalid event or error reported by the service processor.
B1761000 to B176FFFF	Informational event reported by the service processor.

## B1xx

Reference Code	Description
B17B1000 to B17BFFFF	Surveillance error: service processor lost communication with the server firmware.
B17C1000 to B17CFFFF	Surveillance error: service processor lost communication with the HMC.
B17D1000 to B17DFFFF	Surveillance error: HMC lost communication with a logical partition.
B1801000 to B180FFFF	Platform firmware event or error reported by the service processor.
B1811000 to B181FFFF	Service processor firmware event or error reported by the service processor.
B1821000 to B182FFFF	Server firmware event or error reported by the service processor.
B1851000 to B185FFFF	SPCN firmware event or error reported by the service processor.
B1861000 to B186FFFF	Bulk power firmware event or error reported by the service processor.
B1871000 to B187FFFF	HMC code or firmware event or error reported by the service processor.
B1901000 to B190FFFF	Software event or error reported by the service processor.
B1A01000 to B1A0FFFF	External environment event or error reported by the service processor
B1A11000 to B1A1FFFF	Input power source (AC) event or error reported by the service processor.
B1A21000 to B1A2FFFF	Room (ambient) temperature event or error reported by the service processor.
B1A31000 to B1A3FFFF	User error reported by the service processor.

### (B1xx) Service processor firmware reference codes

*For use by service providers.*

A B1xx reference code indicates that an exception occurred in a service processor firmware-detected operation. To resolve any B1xx reference code, use the following procedure:

1. Use the Hardware Management Console, control panel, system console, or error log to record all the system reference code data words. Save the information so you can refer to it later. For more information, see Collecting reference codes and system information (if you are using the Hardware Management Console or the control panel).

If you do not already have the reference code data and cannot use the control panel to retrieve the data, use the Advanced System Management Interface. For more information, see Accessing the Advanced System Management Interface (if you are using the ASMI).

2. Does the error code have a format like B151 72xx or B181 72xx, and did it occur early in the power-on process, before the server reached standby? (The display indicates standby when **01** appears in the upper left corner.)

**No:** Continue with the next step. If you do not already have the reference code data and cannot use the control panel to retrieve the data, use the Advanced System Management Interface. For more information, see Accessing the Advanced System Management Interface.

**Yes:** The error on the control panel is a service processor early termination error. When such an early error occurs, and when no other service processor functions are available, you might experience the following conditions:

- The control panel might not appear to respond to your inputs
- You cannot access the Advanced System Management Interface (ASMI) menus

**You cannot perform a slow boot.** In this case only, use the 8-character SRC that you recorded in step 1 of this slow boot procedure as the starting point for your service action. Go to Table 1. (B1xx) Service processor early termination reference codes, look up the SRC, and perform the recommended actions. **This ends the procedure.**

3. Perform the following:
  - a. Replace the first or next FRU or perform the first or next isolation procedure in the list you obtained by using control panel functions 14-19. 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 302 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.

4. Is the new error code the same as the one that brought you to this procedure?

**Yes:** Repeat step 3 and 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 Perform all actions before exchanging Failing Items	Failing Item
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
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

## (B3xx) Connection monitoring reference codes

*For use by service providers.*

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

## B3xx

- B303

**Table 1. (B301) Connection monitoring reference codes**

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0001	Hardware Management Console (HMC) or partition connection monitoring fault	NEXTLVL
0002	HMC or partition connection monitoring fault  Perform the following steps: <ol style="list-style-type: none"><li>1. Verify the network between the HMC and the partition by pinging in both directions. Correct any problems that you detect.</li><li>2. Reboot the HMC.</li></ol>	
0012, 0013, 0019, 0020, 0023, 0025, 0026	HMC or partition connection monitoring fault	NEXTLVL
0027	HMC or partition connection monitoring fault  Before using the entry in the Failing Items column, do the following: <ol style="list-style-type: none"><li>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.</li><li>2. If you do not use short host names or if the previous step does not correct the problem, use the Failing Item column.</li></ol>	NEXTLVL
0029, 002B, 002C, 002D	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
0001	Hardware Management Console (HMC) or partition connection monitoring fault  Before using the entry in the Failing Items column, do the following: <ol style="list-style-type: none"><li>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.</li><li>2. If you do not use short host names or if the previous step does not correct the problem, use the Failing Item column.</li></ol>	NEXTLVL

**Table 3. (B303) Connection monitoring reference codes**

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0001	The communication link between the service processor and the Hardware Management Console (HMC) failed	FSPSP33
0002	A single partition HMC link failed	FSPSP33



Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
0003	Multiple partition HMC links failed	FSPSP33
0004	All partition links for a single system to HMC failed	FSPSP33
0005	All system links from one system to a single HMC failed	FSPSP33
0006	The links between a single HMC and a single managed system failed	FSPSP33
0007	A single HMC link to more than one managed system occurred	FSPSP33
0008	One HMC link to another single HMC failed	FSPSP33
0009	One HMC link to more than one HMC occurred	FSPSP33
000A	The HMC lost links to all managed systems	FSPSP33
000B	Multiple HMCs lost links to a single managed system	FSPSP33
000C	Multiple HMCs lost links to multiple managed systems	FSPSP33
000D	Multiple HMCs lost links to multiple managed systems	FSPSP33
000E	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.	
000F	A single partition HMC link failure occurred on a redundant path	FSPSP33
0010	A single HMC link to one HMC failure occurred on a redundant path	
0011	Server firmware connection monitoring to the flexible service processor failed	FSPSP33
0012	Flexible service processor connection monitoring of server firmware failed	FSPSP33
0013	The communication path (mailbox) between server firmware and the flexible service processor failed	FSPSP33
1100	Customer reported a problem when creating a serviceable event on the HMC user interface.  Contact the customer for more information about the problem.	

## (BAxx) Partition firmware reference (error) codes

*For use by service providers.*

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	Incompatible firmware levels were found  Reflash the platform firmware.	
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

## BAxx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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 Refer to partition firmware progress code CA00E174	FWHOST
BA010003	Cannot get server hardware address 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
BA050001	Failed to reboot a partition in logical partition mode	FWFWPBL
BA050004	Failed to locate service processor device tree node.	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.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
BA060008	No configurable adapters found by the remote IPL menu in the 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
BA060030	Logical partitioning with shared processors is enabled and the operating system does not support it.  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.	
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. • 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
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.	


## BAxx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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
BA140001	SCSI read/write optical: test unit ready failed; hardware error	FWSCSI1

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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
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
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
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

## BAxx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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"> <li>• <b>Yes:</b> Complete the following steps. <ol style="list-style-type: none"> <li>1. Check for and apply any available server firmware updates.</li> <li>2. Replace the adapter at the location code that was reported with the error.</li> </ol> </li> <li>• <b>No:</b> Remove the PCI adapter specified by the location code.</li> </ul>	
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.	
BA188001	EEH recovered a failing I/O adapter  Replace the adapter in the slot identified by the location code.	
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	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
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
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.	
BA278003	Unable to lock the firmware update lid manager <ol style="list-style-type: none"> <li>1. Reboot the system.</li> <li>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.</li> </ol>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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 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

## (BF67) Power Linux reference codes

*For use by service providers.*

The Linux operating system detected a failure in the emulex driver.

We need detail here about how and where the user would see the Linux SRC.

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) Power 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) Power 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

## BF67

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
7801	<p>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:</p> <ul style="list-style-type: none"> <li>• A possible lack of memory resources. Try increasing the <i>lpfc num_bufs</i> configuration parameter to allocate more buffers</li> <li>• A possible driver buffer management problem</li> </ul>	NEXTLVL
7802	<p>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:</p> <ul style="list-style-type: none"> <li>• A possible lack of memory resources. Try increasing the <i>lpfc num_bufs</i> configuration parameter to allocate more buffers</li> <li>• A possible driver buffer management problem</li> </ul>	NEXTLVL
7803	<p>This message indicates one of the following conditions:</p> <ul style="list-style-type: none"> <li>• Port rsp ring put index is greater than the size of rsp ring</li> <li>• Port cmd ring get index is greater than the size of cmd ring</li> <li>• Port cmd ring get index is greater than the size of cmd ring</li> <li>• The assigned I/O iotag is greater than the max allowed</li> <li>• The assigned I/O iotag is greater than the max allowed</li> </ul> <p>This error might indicate a software driver, firmware or hardware problem.</p>	NEXTLVL
7804	<p>The Rctl/Type of a received frame did not match any for the configured masks for the specified ring.</p> <p>This error might indicate a software driver or firmware problem.</p>	NEXTLVL
7805	<p>Received an unknown IOCB command completion.</p> <p>This error might indicate a software driver or firmware problem.</p>	NEXTLVL
7806	<p>The driver was unable to find a matching command for the completion received on the specified ring.</p> <p>This error might indicate a software driver or firmware problem.</p>	NEXTLVL
7807	<p>A unknown mailbox command completed.</p> <p>This error might indicate a software driver, firmware or hardware problem.</p>	NEXTLVL
7808	<p>The configuration parameter for scan-down is out of range.</p> <p>Software driver error.</p>	NEXTLVL
7809	<p>The driver attempted to register the HBA interrupt service routine with the host operating system but failed.</p> <p>This error might indicate a hardware or driver problem.</p>	NEXTLVL
780A	<p>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> <p>This error might indicate a driver or host operating system problem.</p>	NEXTLVL



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"> <li>• ASCII string to hex conversion failed. Input byte count less than 1</li> <li>• ASCII string to hex conversion failed. Input byte count greater than the max &lt;num&gt;</li> <li>• 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</li> </ul> <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

## BF67

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) Power Linux reference codes

*For use by service providers.*

The Linux operating system detected a failure in the ipr driver.

We need detail here about how and where the user would see the Linux SRC.

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) Power 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) Power 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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
1A00	Firmware file %s not found. Have the customer update the adapter microcode.	NEXTLVL
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"> <li>• Array protection temporarily suspended</li> <li>• IOA detected device error</li> <li>• Cache data belongs to devices other than those attached</li> <li>• Maximum number of arrays already exist</li> <li>• Incorrect hardware configuration change has been detected</li> </ul> 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
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

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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) Power Linux reference codes

*For use by service providers.*

The Linux operating system detected a failure in a driver or subsystem.

We need detail here about how and where the user would see the Linux SRC.

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) Power Linux SRC that you want to find, then perform the suggested actions:

- Table 1. (BF77 0xxx) Power Linux reference codes (olympic driver)
- Table 2. (BF77 5xxx) Power Linux reference codes (pcnet32 driver)
- Table 3. (BF77 6xxx) Power Linux reference codes (bcm 5700 driver)
- Table 4. (BF77 7xxx) Power Linux reference codes (e100 driver)
- Table 5. (BF77 8xxx) Power 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) Power Linux reference codes (olympic driver)**

## BF77

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: 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: • 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
0F0B	Invalid return code in asb.  Have the customer upgrade the driver	IOADPTR

**Table 2. (BF77 5xxx) Power 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) Power 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 procs 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
6504	Memory allocation failed - buffer parameters may be set too high. Have the customer do the following: 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: 1. Change the rx_coalesce_ticks parameter of the driver 2. Change the rx_max_coalesce_frames parameter of the driver	NEXTLVL

## BF77

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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"> <li>1. Change the tx_coalesce_ticks parameter of the driver</li> <li>2. Change the tx_max_coalesce_frames parameter of the driver</li> </ol>	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"> <li>1. Verify the driver software level</li> <li>2. Change the nic_tx_bd parameter</li> </ol>	NEXTLVL
6801	This adapter does not support hardware checksum offload. Have the customer do the following: <ol style="list-style-type: none"> <li>1. Verify the driver software level</li> <li>2. Change the driver's rx_checksum parameter</li> <li>3. Change the driver's tx_checksum parameter</li> </ol>	NEXTLVL
6802	This adapter does not support hardware TSO. Have the customer do the following: <ol style="list-style-type: none"> <li>1. Verify the driver software level</li> <li>2. Change the driver's enable_tso parameter</li> </ol>	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) Power Linux reference codes (e100 driver)**

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
SRC	Probable Causes	Actions
7800	Internal error in driver, kernel, or firmware. Have the customer do the following: <ol style="list-style-type: none"> <li>1. Verify the driver software level.</li> <li>2. Run diagnostics.</li> </ol>	NEXTLVL
7801	Insufficient kernel memory is available for the driver. Have the customer do the following: <ol style="list-style-type: none"> <li>1. Install more memory in the system</li> <li>2. Reconfigure the kernel to reduce memory consumption</li> <li>3. Install the driver earlier in system bringup</li> </ol>	NEXTLVL



Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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) Power 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
8F00	Adapter hardware failure.	IOADPTR

## (Exxx) Licensed Internal Code reference codes

*For use by service providers.*

The Hardware Management Console generates Exxx xxxx error codes when it encounters a Licensed Internal Code problem.

**Table 1. (Exxx) Licensed Internal Code progress codes**

## Exxx

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
xxxx	Licensed Internal Code failure.	NEXTLVL

### (E302) Licensed Internal Code reference codes

*For use by service providers.*

The Hardware Management Console generates E302 xxxx error codes when it encounters a Licensed Internal Code problem.

**Table 1. (E302) Licensed Internal Code progress codes**

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
xxxx	Licensed Internal Code failure.	NEXTLVL
F800	<p>An error occurred while attempting to create an instance of the service processor 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 the system is in a good state (for example, power off, standby, or operating). Then repeat the operation.</p>	
F801	<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>	
F802	<p>The survey from the repository method was called, but the repository selected was not RETAIN<sup>®</sup>, the IBM Web site, the DVD, or the disk 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>	
F803	<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>	
F804	<p>The request to get a list of RETAIN fixpacks failed because the request timed out.</p> <p>Verify that you correctly entered valid values for the FTP site, user, password, and and directory. Then repeat the operation.</p>	
F805	<p>The request to get a list of RETAIN fixpacks failed with an exception.</p> <p>Repeat the operation. If it fails, call your next level of support.</p>	
F806	<p>The request to get a list of RETAIN fixpacks failed with an error code.</p> <p>Repeat the operation. If it fails, call your next level of support.</p>	
F807	<p>No phone server was available to service the request to get a list of RETAIN fixpacks.</p> <p>Ensure that your connection to RETAIN is set up correctly and repeat the operation.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
F808	<p>The list of fixpacks was retrieved from RETAIN, 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>	
F809	<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>	
F80A	<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>	
F80B	<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>	
F80C	<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>	
F80D	<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>	
F80E	<p>The list of fixpacks was retrieved from RETAIN, 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>	
F80F	<p>The method to import the stageable cover letter was called, but the repository selected was not RETAIN, the IBM Web site,, the DVD, or the disk drive.</p> <p>Use the HMC GUI to reselect the source for code updates, then retry the update. If the problem occurs again, contact your next level of support.</p>	
F810	<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, then retry the operation.</p>	
F811	<p>The request to get cover letter from RETAIN 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>	
F812	<p>The request to get cover letter from RETAIN 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>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
F813	The request to get cover letter from RETAIN failed with an error code.  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.	
F814	No phone server was available to service the request to get cover letters from RETAIN.  Configure the HMC as a phone server and retry the operation.	
F815	Failure when attempting to copy the cover letter from the DVD to the storage area.  The CD or DVD may be faulty. Try another one.	
F816	An error occurred when attempting to get the service processor to run a query of its state.  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.	
F817	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.	
F818	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.	
F819	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.	
F81A	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.	
F81B	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.	
F81C	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.	
F81D	Failure during an attempt to copy the cover letter form the IBM Web site to the staging area.  Reboot the HMC. Verify that your LAN connection is set up properly. Then retry the operation.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
F820	<p>An error occurred while attempting to pull the common marker firmware update file from flash memory to the disk drive.</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. If the problem occurs again contact your next level of support.</p>	
F821	<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>	
F822	<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>	
F828	<p>An error occurred while attempting to pull the master firmware update file from flash to the disk drive.</p> <p>Reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.</p>	
F829	<p>An error occurred while attempting to pull the master firmware update file from the disk 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>	
F82A	<p>An error occurred while attempting to pull 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>	
F82B	<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>	
F830	<p>An error occurred while attempting to read a flash firmware update file from the hard file into memory.</p> <p>Reboot the HMC and try the operation again. If the problem occurs again, consider replacing the disk drive of the HMC.</p>	
F831	<p>A file that was supposed to be a firmware update file either does not exist or is too small to contain a valid header.</p> <p>If you are using nondisruptive microcode, verify that your test firmware update files are correct. Otherwise contact your next level of support.</p>	
F838	<p>An error occurred while attempting to read the information about the fixpack out of the cover letter.</p> <p>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.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
F840	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.	
F841	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.	
F842	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.	
F843	An error occurred while attempting to issue an code update complete to the master service processor.  Try the operation again. If the problem occurs again, contact your next level of support.	
F844	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.	
F845	The "import from a remote repository" code routine was called, but the repository selected was not RETAIN 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.	
F846	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.	
F847	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.	
F848	A request to import RETAIN 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 occurs again, contact your next level of support.	
F849	A request to import RETAIN 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 occurs again, contact your next level of support.	
F84A	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.	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
F84B	<p>Failure during an attempt to close the surveyed list of fixpacks.</p> <p>Reboot the HMC and try the operation again. If the problem occurs again, consider replacing the disk drive of your HMC.</p>	
F84C	<p>An error occurred while attempting to get the engineering change streams in order to list all of the updates available on the removable media.</p> <p>Reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.</p>	
F84D	<p>An error occurred while trying to copy the RPM files from the media repository to the hard file.</p> <p>The CD or DVD may be faulty. Try another one.</p>	
F84E	<p>An error occurred in a method 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>	
F84F	<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>	
F850	<p>A failure occurred while trying to unpack the RPM file in the "complete concurrently" method.</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 <b>ls</b> command)</pre> <pre>rpm -e rpm <i>packagename</i> (where <i>packagename</i> is the name of the package returned by the <b>rpm -e</b> command)</pre>	
F851	<p>The request to retrieve fixpacks from RETAIN 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>	
F852	<p>No phone server was available to serve the request to retrieve RETAIN fixpacks.</p> <p>Configure the HMC as a phone server and retry the operation.</p>	
F853	<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>	
F854	<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>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
F855	Importing from an FTP site failed when the files from the FTP repository were not retrieved.  Try the operation again. If the problem occurs again, contact your next level of support.	
F856	A failure occurred when 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.	
F857	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.	
F858	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.	
F859	A exception occurred when 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.	
F85A	A exception occurred while trying to unpack the RPM file in the "complete concurrently" method.  Try the operation again. If the problem occurs again, contact your next level of support.	
F85B	An exception occurred while trying to import updates from the DVD.  The CD or DVD may be faulty. Try another one.	
F85C	An error occurred while attempting to copy the T side to the P side.  Try the operation again. If the problem occurs again, contact your next level of support.	
F85D	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.	
F85E	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.	
F85F	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.	
F860	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.	



Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
F861	<p>An error occurred while attempting to open the server firmware diff file prior to writing.</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>	
F862	<p>An error occurred while attempting to write the server firmware diff file to the server 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>	
F863	<p>An error occurred while attempting to close the server 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 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>	
F864	<p>An exception occurred during the query to see if a server firmware update has completed.</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>	
F865	<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>	
F866	<p>The server firmware update timed out.</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>	
F867	<p>An interruption occurred while waiting for the server 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>	
F868	<p>An error occurred while issuing a start code update command to the secondary service processor.</p>	
F869	<p>An error occurred while when issuing a write firmware update file command to the secondary service processor.</p>	
F86A	<p>An error occurred issuing a code update complete to the secondary service processor.</p>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
F86B	<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>	
F86C	<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>	
F86D	<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>	
F86E	<p>An error occurred during a call to a code module while preparing to write the server 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 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>	
F86F	<p>An error occurred during a call to a code module while attempting to write the server 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 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>	
F870	<p>An error occurred during a call to a code module after writing the server 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 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>	
F871	<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>	
F872	<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>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
F873	<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 <b>Select Advanced Features</b> and then select <b>Install And Activate</b>. If the code update fails again, contact your next level of support.</p>	
F874	<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>	
F875	<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>	
F876	<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>	
F877	<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>	
F878	<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>	
F879	<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>	
F87A	<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>	
F87B	<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>	
F87C	<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>	
F87D	<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>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
F87E	<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>	
F87F	<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>	
F880	<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>	
F881	An IPL was executed as part of a disruptive firmware update.	
F882	A power off was executed as part of a disruptive firmware update.	
F883	A power on was executed as part of a disruptive firmware update.	
F884	<p>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.</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. Once 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.</p>	
F885	<p>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.</p> <p>Contact the next level of support for assistance in getting the HMC to communicate with the service processor again.</p>	
F886	A retrieval was issued but no changes are available to supply.	
F887	An apply command was issued but no changes are available to apply.	
F888	<p>A <code>chsyscfg</code> command was issued to change the next IPL side, but it failed.</p> <p>Reboot the HMC and try the 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
F889	An exception occurred after a <code>chsyscfg</code> 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.	
F88A	Powering off the system unit has started.	
F88B	Reading of the firmware update files has started.	
F88C	Writing of the firmware update files has started.	
F88D	Rebooting the service processor has started.	
F88E	Powering on the system unit has started.	
F88F	Restoring of the firmware update files to the P side has started.	
F890	An error occurred while attempting to find the directory used as temporary storage.  Reboot the HMC and try the operation again. If the problem occurs again, contact your next level of support.	
F891	Failure when attempting to import an RPM package from 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.	
F892	A request was received to take the service processor back to an earlier level, but it was a concurrent request.  Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support	
F893	A general error occurred while applying code.  Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support	
F894	A general error occurred while processing a hardware upgrade.  Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support	
F895	A general error occurred while committing code.  Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support	
F896	A general error occurred while exporting code to the DVD.  Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support	
F897	A general error occurred while importing code.  Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support	
F898	A general error occurred while rejecting code.  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
F8A0	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.	
F8A1	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.	
F8A2	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.	
F8A3	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.	
F8A4	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.	
F8A5	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.	
F8A6	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.	
F8A8	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.	
F8D0	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.	
F8D1	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.	
F8E0	An error occurred while trying to complete the importAllUpdatesSynchronously method in the PI adapter class.  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
F8E1	An error occurred while trying to complete the applyAllStagedSynchronously method in the PI adapter class.  Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.	
F8F0	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.	
F8F1	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.	
F8F2	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.	
F9B2	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.	
F9B3	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.	
F9B4 to F9B6	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.	
F9B7	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.	
F9B8	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.	
F9B9	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.	
F9BA	Error during the main processing for the client 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.	
F9BB	Error during the main processing for the server side of the hardware upgrade task.  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
F9BC	<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>	
F9BD	<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>	
F9BE	<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>	
F9BF	<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>	
F9C0	<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>	
F9C1	<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>	
F9C2	<p>Error during the main "service" processing for the server side of the change internal code wizard cecconcurrency panel handler.</p> <p>Reboot the HMC and retry the operation. If the problem occurs again, contact your next level of support.</p>	
F9C3	<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>	
F9C4	<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>	
F9C5	<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>	
F9C6	<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>	



Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
F9C7	<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>	
F9C8	<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>	
F9C9	<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>	
F9CA	<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>	
F9CB	<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>	
F9CC	<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>	
F9CD	<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>	
F9CE	<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>	
F9CF	<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>	
F9D0	<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>	
F9D1	<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>	
F9D2	<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>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
F9D3	<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>	
F9D4	<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>	
F9D5	<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>	
F9D6	<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>	
F9D7	<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>	
F9D8	<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>	
F9D9	<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>	
F9DA	<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>	
F9DB	<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>	
F9DC	<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>	
F9DD	<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>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
F9DE	<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>	
F9DF	<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>	
F9E0	<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>	
F9E1	<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>	
F9E2	<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>	
F9E3	<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>	
F9E4	<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>	
F9E5	<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>	
F9E6	<p>Error trying to perform some processing in the Advanced Targeting for System 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>	
F9E7	<p>Error in the select advanced targeting 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>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
F9E8	<p>Error in the CEC/power concurrency 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>	
F9E9	<p>Error in the CEC/power 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>	
F9EA	<p>Error in the change FTP directory 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>	
F9EB	<p>Error in the specify levels 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>	
F9EC	<p>Error in the advanced features confirm 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>	
F9ED	<p>Error in the LIC 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>	
F9EE	<p>Error in the flash side selection 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>	
F9EF	<p>Error in the FTP site access 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>	
F9F0	<p>Error in the advanced features install and activate (implied retrieval) 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>	
F9F1	<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>	
F9F2	<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>	

Reference Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
F9F3	<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>	
F9F4	<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>	
F9F5	<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>	
F9F6	<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>	
F9F7	<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>	
F9F8	<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>	
F9F9	<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>	
F9FA	<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>	
F9FB	<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>	
F9FC, F9FD	<p>Error in the change internal code wizard1 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>	
F9FE	<p>Error in the change internal code wizard2 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
F9FF	<p>Error in the change internal code wizard3 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>	

## Using system reference codes

*For use by service providers.*

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 and BAxx) and service processor SRCs (A1xx and B1xx), only the first two characters of the SRC indicate 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 or D 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

### 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:
  - 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.

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## List of service request numbers

*For use by service providers.*

The service request number (SRN) list is in numeric order.

For information about using this list of SRNs and about SRNs in general, see “Using service request numbers” on page 554.

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 354
- “SRNs 60B-xxx through 6C9-600” on page 365
- “SRNs 700-xxx through 7C1-117” on page 405
- “SRNs 801-xxxx through 89c-302” on page 444
- “SRNs 900-001 through xxxxxxxx” on page 471
- “SRNs 2520-101 through 25D0-108” on page 525
- “SRNs 2600-101 through 2600-704” on page 549
- “SCSI Devices SRNs (ssss-102 to ssss-640)” on page 552

### 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	<b>P</b> Adapter port number
	<b>AA</b> SSA Address

## 10104 through SSA03

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.  <b>Note:</b> 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.
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.



Service Request Number	SRN Src.	Failing Function Codes	Description and Action
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.
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.

## 10104 through SSA03

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
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.
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.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
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.
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.

## 10104 through SSA03

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
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.
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.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
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.
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.

## 10104 through SSA03

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
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.
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.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
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.
7xxx			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. <b>Note:</b> In this SRN, an x represents a digit 0 through F.
8xxx			A Configuration Error occurred. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive. <b>Note:</b> In this SRN, an x represents a digit 0 through F.
D0000			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.
D0100			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.
D0200			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.
D0300			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.
D0400			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.

## 10104 through SSA03

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
D0450			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.
D0460			A Format operation was degraded. Action: Refer to the SRN table in the <i>Service Guide</i> for the unit containing the disk drive.
D4000			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.
D4100			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.
D4300			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. <b>Note:</b> In this SRN, an x 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.
DFFFF			<b>Note:</b> 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	SRN Src.	Failing Function Codes	Description and Action
101-000	A		The system hung while attempting to configure a device. Action: Use PFW1540: Problem isolation procedures.
101-185	A		A checkstop occurred. Action: Use PFW1540: Problem isolation procedures.
101-517	A		The system unit failed to IPL. Action: Use PFW1540: Problem isolation procedures.
101-518	A		CD-ROM read problems after boot. <b>Note:</b> 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	A		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 PFW 1540: Problem isolation procedures.
101-544	A		Disk read problems occurred after booting. <b>Note:</b> 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.
101-551 to 101-557	A		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 PFW 1540: Problem isolation procedures.
101-558	A		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	A		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 PFW 1540: 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.

## 101-000 through 59D-xxx

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
101-662	A		An unexpected system interrupt. Action: Use PFW 1540: Problem isolation procedures.
101-711 to 101-726	A	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. <b>Note:</b> xxx corresponds to the last three digits of the SRN.
101-727	A		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	A	7C1	The system unit halted while configuring an audio subsystem. Action: Go to General problem resolution.
101-80c	A	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	A		An unexpected system interrupt. Action: Use PFW 1540: Problem isolation procedures. Suspect either a SCSI adapter or integrated SCSI if so equipped.
101-888	A	210 227 E10	The system does not IPL. Action: Go to General problem resolution.
101-c32	D		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	D		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		A problem was encountered mounting the CD-ROM. Action: Use PFW 1540: Problem isolation procedures.
101-2004	A		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-xxxx	A	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	D	151	The time-of-day battery failed. Action: Go to General problem resolution.
109-200	B		The system crashed while being run by the customer. Action: Use Problem determination procedure, and get a new SRN.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
110-101	C		The diagnostics did not detect an installed resource. Action: If this SRN appeared when running concurrent diagnostics, then run concurrent using the <b>diag -a</b> command, otherwise use Missing resource problem resolution.
110-908	D	908 C33 C36	The system halted while diagnostics were executing. Action: Go to General problem resolution.
110-921 to 110-926	D	xxx 812	The system halted while diagnostics were executing. <b>Note:</b> xxx corresponds to the last three digits of the SRN. Action: Go to General problem resolution.
110-935	D	935 812	The system halted while diagnostics were executing. Action: Go to General problem resolution.
110-946	D	946 221	The system halted while diagnostics were executing. Action: Go to General problem resolution.
110-xxxx	D	xxxx 221	The system halted while diagnostics were executing. <b>Note:</b> 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 xxx, then proceed to the FFC table using the substituted digits as your FFC.. Action: Go to General problem resolution.
111-107	B		A machine check occurred. Action: Go to Problem determination procedure.
111-108	B		An encoded SRN was displayed. Action: Go to Problem determination procedure.
111-121	B		There is a display problem. Action: Do problem determination on the display. Action: Go to General problem resolution.
111-259	B		Cannot display readable information on the terminal. Action: Go to Console and keyboard problem resolution Entry 3.
111-725	B	725	Cannot display readable information on the display. <b>Note:</b> Suspect the display adapter attached to the console display. Action: Go to Console and keyboard problem resolution.
111-736	B	736 821	The keyboard does not respond. Action: Go to Console and keyboard problem resolution Entry 1.
111-78C	B	PCI adapter 227 E10	I/O bus problem. Action: Go to General problem resolution. <b>Note:</b> PCI adapter refers to the adapters you made note of when using Console and keyboard problem resolution.
111-82C	B		Cannot display readable information on the display. Action: Go to Console and keyboard problem resolution Entry 2.
111-921	B	921 821	The keyboard does not respond. Action: Go to Console and keyboard problem resolution Entry 1.
111-922	B	922 821	The keyboard does not respond. Action: Go to Console and keyboard problem resolution Entry 1.
111-923	B	923 821	The keyboard does not respond. Action: Go to Console and keyboard problem resolution Entry 1.
111-947	B	221	System beeper not functioning correctly. Action: Go to General problem resolution.

## 101-000 through 59D-xxx

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
111-999	D	210	System does not perform a soft reset. Action: Go to General problem resolution.
2E6-101	D	221	Enhanced error handling failure on the bus. Action: Go to General problem resolution.
2E6-102	D	293	Enhanced error handling failure on a PCI-PCI Bridge. Action: Go to General problem resolution.
2E6-103	D	2E6 221	Enhanced error handling failure on the adapter. Action: Go to General problem resolution.
2E6-212	D	2E6	FIFO empty bit set. Action: Go to General problem resolution.
2E6-213	D	2E6	FIFO empty bit clear. Action: Go to General problem resolution.
2E6-214	D	2E6	FIFO full bit set. Action: Go to General problem resolution.
2E6-215	D	2E6	FIFO full bit clear. Action: Go to General problem resolution.
2E6-216	D	2E6	FIFO data miscompare. Action: Go to General problem resolution.
2E6-217	D	2E6	SCSI FIFO data miscompare. Action: Go to General problem resolution.
2E6-218	D	2E6	SCSI FIFO underflow. Action: Go to General problem resolution.
2E6-219	D	2E6	SCSI parity error. Action: Go to SCSI bus problems.
2E6-220	D	2E6	SCSI FIFO flags error. Action: Go to General problem resolution.
2E6-221	D	2E6 221	Miscompare during the write/read of the configuration register. Action: Go to General problem resolution.
2E6-222	D	2E6	Error during the write/read of the memory register. Action: Go to General problem resolution.
2E6-223	D	2E6	Miscompare during the write/read of the memory I/O register. Action: Go to SCSI Bus Problems.
2E6-224	D	2E6 221	SCSI configuration register read or write error. Action: Go to General problem resolution.
2E6-225	D	2E6	Adapter POST failed. Action: Go to General problem resolution.
2E6-226	D		SCSI wrap or PTC failure. Action: Go to SCSI Bus Problems.
2E6-227	D	2E6 221	SCSI adapter test failure. Action: Go to General problem resolution.
2E6-230	D		Arbitration test failed. Action: Go to SCSI Bus Problems.
2E6-231	D		Function could not complete. Action: Go to SCSI Bus Problems.
2E6-232	D		SCSI bus data miscompare. Action: Go to SCSI Bus Problems.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
2E6-240	D		No terminal power. Action: Go to SCSI Bus Problems.
2E6-242	D		SCSI bus problem. Action: Go to SCSI Bus Problems.
2E6-301	D	2E6 221	The parent device open failed. Action: Go to General problem resolution.
2E6-701	G	2E6	Error log analysis indicates a PCI SCSI adapter failure. Action: Go to General problem resolution.
2E6-801	G		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	G		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	G		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	D	221	Enhanced error handling failure on the bus. Action: Go to General problem resolution.
2E7-102	D	293	Enhanced error handling failure on a PCI-PCI Bridge. Action: Go to General problem resolution.
2E7-103	D	2E7 221	Enhanced error handling failure on the adapter. Action: Go to General problem resolution.
2E7-212	D	2E7	FIFO empty bit set. Action: Go to General problem resolution.
2E7-213	D	2E7	FIFO empty bit clear. Action: Go to General problem resolution.
2E7-214	D	2E7	FIFO full bit set. Action: Go to General problem resolution.
2E7-215	D	2E7	FIFO full bit clear. Action: Go to General problem resolution.
2E7-216	D	2E7	FIFO data miscompare. Action: Go to General problem resolution.
2E7-217	D	2E7	SCSI FIFO data miscompare. Action: Go to General problem resolution.
2E7-218	D	2E7	SCSI FIFO underflow. Action: Go to General problem resolution.
2E7-219	D		SCSI parity error. Action: Go to SCSI Bus problems.
2E7-220	D	2E7	SCSI FIFO flags error. Action: Go to General problem resolution.

## 101-000 through 59D-xxx

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
2E7-221	D	2E7 221	Miscompare during the write/read of the configuration register. Action: Go to General problem resolution.
2E7-222	D	2E7	Error during the write/read of the memory register. Action: Go to General problem resolution.
2E7-223	D	2E7	Miscompare during the write/read of the memory I/O register. Action: Go to SCSI Bus problems.
2E7-224	D	2E7 221	SCSI configuration register read or write error. Action: Go to General problem resolution.
2E7-225	D	2E7	Adapter POST failed. Action: Go to General problem resolution.
2E7-226	D		SCSI wrap or PTC failure. Action: Go to SCSI Bus problems.
2E7-227	D	2E7 221	SCSI adapter test failure. Action: Go to General problem resolution.
2E7-230	D		Arbitration test failed. Action: Go to SCSI Bus problems.
2E7-231	D		Function could not complete. Action: Go to SCSI Bus problems.
2E7-232	D		SCSI bus data miscompare. Action: Go to SCSI Bus problems.
2E7-240	D		No terminal power. Action: Go to SCSI Bus problems.
2E7-242	D		SCSI bus problem. Action: Go to SCSI Bus problems.
2E7-301	D	2E7	Configuration open failed for parent bus. Action: Go to General problem resolution.
2E7-701	G	2E7	Error log analysis indicates a PCI SCSI adapter failure. Action: Go to General problem resolution.
2E7-801	G		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	G		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	G		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	E	751	Post indicates an adapter failure. Action: Go to General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
440-xxx to 443-xxx			See "SCSI Devices SRNs (ssss-102 to ssss-640)" on page 552.
444-101	D	2C3 444	External wrap test failed on port 0. Action: Go to General problem resolution.
444-102	D	2C3 444	External wrap test failed on port 1. Action: Go to General problem resolution.
444-103	D	227	Enhanced error handling failure on bus. Action: Go to General problem resolution.
444-104	D	227	Enhanced error handling failure on Eads chip. Action: Go to General problem resolution.
444-105	D	444	Enhanced error handling failure on adapter. Action: Go to General problem resolution.
444-106	D	776 646	Enhanced error handling failure on bus. Action: Go to General problem resolution.
444-107	D	776 646	EEH failure on Eads chip. Action: Go to General problem resolution.
444-108	D	776 646	Enhanced error handling failure on adapter. Action: Go to General problem resolution.
444-201	D	444 227	Internal adapter test failed. Action: Go to General problem resolution.
444-202	D	444 227	External wrap test failed on port 0. Action: Go to General problem resolution.
444-203	D	444 227	External wrap test failed on port 1. Action: Go to General problem resolution.
444-204	D	2C3 444	External wrap test failed on port 0. Action: Go to General problem resolution.
444-205	D	2C3 444	External wrap test failed on port 1. Action: Go to General problem resolution.
444-206	D	2C3 444 software	External wrap test failed on port 0. Action: Go to General problem resolution.
444-207	D	2C3 444 software	External wrap test failed on port 1. Action: Go to General problem resolution.
444-208	D	444 227	Enhanced error handling failure opening the adapter. Action: Go to General problem resolution.
444-301	D	444 227 software	Internal adapter test failed. Action: Go to General problem resolution.
444-302	D	444 227 software	External wrap test failed on port 0. Action: Go to General problem resolution.
444-303	D	444 227 software	External wrap test failed on port 1. Action: Go to General problem resolution.

## 101-000 through 59D-xxx

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
444-304	D	2C3 444 software	External wrap test failed on port 0. Action: Go to General problem resolution.
444-305	D	2C3 444 software	External wrap test failed on port 1. Action: Go to General problem resolution.
444-700	D	444 software	Error log analysis indicates a hardware problem. Action: Go to General problem resolution.
444-701	D	444 227	Error log analysis indicates that this adapter has failed to initialize due to enhanced error handling errors. Action: Go to General problem resolution.
447-101	D	447	The Fibre Channel Adapter configuration failed. Action: Go to General problem resolution.
447-102	D	447	The Reset test failed. Action: Go to General problem resolution.
447-103	D	447	The Register test failed. Action: Go to General problem resolution.
447-104	D	447	The SRAM test failed. Action: Go to General problem resolution.
447-105	D	447	The Internal Wrap test failed. Action: Go to General problem resolution.
447-106	D	447	Gigabaud Link Module (GLM) Wrap Test Failure. Action: Go to General problem resolution.
447-107	D	447	The External Wrap test failed. Action: Go to General problem resolution.
447-109	D	221	Enhanced Error Handling Failure on EADs chip. Action: Go to General problem resolution.
447-110	D	447	Enhanced Error Handling Failure on adapter. Action: Go to General problem resolution.
447-201	D	447 221	The Configuration Register test failed. Action: Go to General problem resolution.
447-202	D	447 221	The Interrupt test failed. Action: Go to General problem resolution.
447-203	D	447 221	The PCI Wrap test failed. Action: Go to General problem resolution.
447-204	D	447 221	The DMA test failed. Action: Go to General problem resolution.
447-205	D	447 221	I/O error on a read/write operation. Action: Go to General problem resolution.
447-701	G	447 221	Error log analysis indicates that an error has occurred with the adapter. Action: Go to General problem resolution.
447-703	G	447	Error log analysis indicates that an unknown adapter error has occurred. Action: Go to General problem resolution.
447-704	G	447	Error log analysis indicates that an adapter error has occurred. Action: Go to General problem resolution.



Service Request Number	SRN Src.	Failing Function Codes	Description and Action
451-xxx			See "SCSI Devices SRNs (ssss-102 to ssss-640)" on page 552.
453-xxx			See "SCSI Devices SRNs (ssss-102 to ssss-640)" on page 552.
458-110	D	458	The <b>Reserve</b> command failed. Action: Use MAP 0210: General problem resolution.
458-120	D	458	The <b>Inquiry</b> command failed. Action: Use MAP 0210: General problem resolution.
458-130	D	458 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution.
458-135	D	458 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution.
458-140	D	458	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution.
458-150	D	458 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution.
458-160	D	458 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution.
458-169	D	458 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution.
458-170	D	458 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
458-180	D	458 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution.
458-185	D	458 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution.
458-190	D	458	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution.
458-200	D	458 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution.
458-210	D	458 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
458-220	D	458	The <b>Release</b> command failed. Action: Use MAP 0210: General problem resolution.
458-230	D	458	The <b>Request Sense</b> command failed. Action: Use MAP 0210: General problem resolution.
458-240	D	458	The <b>Openx</b> command failed. Action: Use MAP 0210: General problem resolution.
458-300	D	458 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
458-310	D	B88 458 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
458-320	G	458 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
458-411 to 458-423	D	458 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.

## 101-000 through 59D-xxx

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
458-511 to 458-523	D	458 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
458-611 to 458-623	D	458 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
458-711 to 458-723	D	458 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.
459-110	D	459	The <b>Reserve</b> command failed. Action: Use MAP 0210: General problem resolution.
459-120	D	459	The <b>Inquiry</b> command failed. Action: Use MAP 0210: General problem resolution.
459-130	D	459 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution.
459-135	D	459 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution.
459-140	D	459	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution.
459-150	D	459 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution.
459-160	D	459 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution.
459-169	D	459 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution.
459-170	D	459 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
459-180	D	459 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution.
459-185	D	459 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution.
459-190	D	459	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution.
459-200	D	459 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution.
459-210	D	459 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
459-220	D	459	The <b>Release</b> command failed. Action: Use MAP 0210: General problem resolution.
459-230	D	459	The <b>Request Sense</b> command failed. Action: Use MAP 0210: General problem resolution.
459-240	D	459	The <b>Openx</b> command failed. Action: Use MAP 0210: General problem resolution.
459-300	D	459 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
459-310	D	B88 459 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
459-320	G	459 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
459-411 to 459-423	D	459 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.
459-511 to 459-523	D	459 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
459-611 to 459-623	D	459 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
459-711 to 459-723	D	459 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.
541-xxx	D	541	A DLT tape device problem has occurred. Action: Refer to the DLT tape device documentation.
542-xxx	D	542	An 8mm 60GB tape device problem has occurred. Action: Refer to the 8mm 60GB tape device documentation.
56B-xxx			See "SCSI Devices SRNs (ssss-102 to ssss-640)" on page 552.
56D-xxx			See "SCSI Devices SRNs (ssss-102 to ssss-640)" on page 552.
57B-xxx			See "SCSI Devices SRNs (ssss-102 to ssss-640)" on page 552.
57D-xxx			See "SCSI Devices SRNs (ssss-102 to ssss-640)" on page 552.
58B-xxx			See "SCSI Devices SRNs (ssss-102 to ssss-640)" on page 552.
58D-xxx			See "SCSI Devices SRNs (ssss-102 to ssss-640)" on page 552.
59B-xxx			See "SCSI Devices SRNs (ssss-102 to ssss-640)" on page 552.
59D-xxx			See "SCSI Devices SRNs (ssss-102 to ssss-640)" on page 552.

## SRNs 60B-xxx through 6C9-600

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	SRN Src.	Failing Function Codes	Description and Action
60B-xxx			See SCSI Devices SRNs.
601-xxx			See SCSI Devices SRNs.
613-xxx	D	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.

**60B-xxx through 6C9-600**

<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
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	D	636	EPROM test failure. Action: Use MAP 0210: General problem resolution.
636-102	D	636	Adapter SDRAM failure. Action: Use MAP 0210: General problem resolution.
636-103	D	636	Adapter checksum failure. Action: Use MAP 0210: General problem resolution.
636-104	D	636	Adapter memory test failure. Action: Use MAP 0210: General problem resolution.
636-105	D	636	Adapter buffer test failure. Action: Use MAP 0210: General problem resolution.
636-106	D	636	Adapter cache test failure. Action: Use MAP 0210: General problem resolution.
636-107	D	636	Internal loop-back test failure. Action: Use MAP 0210: General problem resolution.
636-108	D	636	External wrap test failure. Action: Use MAP 0210: General problem resolution.
636-109	D	221	Enhanced error handling failure on the bus. Action: Use MAP 0210: General problem resolution.
636-110	D	221	Enhanced error handling failure on the Eads chip. Action: Use MAP 0210: General problem resolution.
636-111	D	636	Enhanced error handling failure on the adapter. Action: Use MAP 0210: General problem resolution.
636-201	D	636 221	Hardware failure opening adapter. Action: Use MAP 0210: General problem resolution.
636-202	D	636 221	Interrupt test failure. Action: Use MAP 0210: General problem resolution.
636-203	D	636 221	Adapter DMA test failure. Action: Use MAP 0210: General problem resolution.
636-204	D	636 221	Enhanced error handling failure opening the adapter. Action: Use MAP 0210: General problem resolution.
636-701	G	636	ELA indicates an I/O failure on the adapter. Action: Use MAP 0210: General problem resolution.
637-101	D	221	Enhanced error handling failure on the bus. Action: Use MAP 0210: General problem resolution.
637-102	D	293	Enhanced error handling failure on a PCI-PCI Bridge. Action: Use MAP 0210: General problem resolution.
637-103	D	637 221	Enhanced error handling failure on the adapter. Action: Use MAP 0210: General problem resolution.
637-212	D	637	FIFO empty bit set. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
637-213	D	637	FIFO empty bit clear. Action: Use MAP 0210: General problem resolution.
637-214	D	637	FIFO full bit set. Action: Use MAP 0210: General problem resolution.
637-215	D	637	FIFO full bit clear. Action: Use MAP 0210: General problem resolution.
637-216	D	637	FIFO data miscompare. Action: Use MAP 0210: General problem resolution.
637-217	D	637	SCSI FIFO data miscompare. Action: Use MAP 0210: General problem resolution.
637-218	D	637	SCSI FIFO underflow. Action: Use MAP 0210: General problem resolution.
637-219	D		SCSI parity error. Action: Go to SCSI Bus Problems.
637-220	D	637	SCSI FIFO flags error. Action: Use MAP 0210: General problem resolution.
637-221	D	637 221	Miscompare during the write/read of the configuration register. Action: Use MAP 0210: General problem resolution.
637-222	D	637	Error during the write/read of the memory register. Action: Use MAP 0210: General problem resolution.
637-223	D	637	Miscompare during the write/read of the memory I/O register. Action: Go to SCSI Bus Problems.
637-224	D	637 221	SCSI configuration register read or write error. Action: Use MAP 0210: General problem resolution.
637-225	D	637	Adapter POST failed. Action: Use MAP 0210: General problem resolution.
637-226	D		SCSI wrap or PTC failure. Action: Go to SCSI Bus Problems.
637-227	D	637 221	SCSI adapter test failure. Action: Use MAP 0210: General problem resolution.
637-230	D		Arbitration test failed. Action: Go to SCSI Bus Problems.
637-231	D		Function could not complete. Action: Go to SCSI Bus Problems.
637-232	D		SCSI bus data miscompare. Action: Go to SCSI Bus Problems.
637-240	D		No terminal power. Action: Go to SCSI Bus Problems.
637-242	D		SCSI bus problem. Action: Go to SCSI Bus Problems.
637-301	D	637 221	The parent device open failed. Action: Use MAP 0210: General problem resolution.
637-701	G	637	Error log analysis indicates a PCI SCSI adapter failure. Action: Use MAP 0210: General problem resolution.

**60B-xxx through 6C9-600**

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
637-801	G		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.
637-802	G		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.
637-803	G		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.
638-xxx			See SCSI devices SRNs ssss-102 through ssss-640.
639-xxx			See SCSI devices SRNs ssss-102 through ssss-640.
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	D	D46	External Test Failure. Action: Use MAP 0210: General problem resolution.
646-102	D	240	External Test Failure. Action: Use MAP 0210: General problem resolution.
646-103	D	646	I/O Test Failure. Action: Use MAP 0210: General problem resolution.
646-104	D	646 221	Adapter On-card Test Failure. Action: Use MAP 0210: General problem resolution.
646-105	D	646	Wrap Test Failure. Action: Use MAP 0210: General problem resolution.
646-106	D	646	Enhanced Error Handling failure on bus. Action: Use MAP 0210: General problem resolution.
646-107	D	646	EEH failure on PCI-PCI bridge chip. Action: Use MAP 0210: General problem resolution.
646-108	D	646	Enhanced Error Handling failure on adapter. Action: Use MAP 0210: General problem resolution.
646-201	D	646 221	Configuration Register Test Failure. Action: Use MAP 0210: General problem resolution.
646-202	D	646 221	Wrap Test Failure. Action: Use MAP 0210: General problem resolution.
646-204	F	D46 240	External Test Failure. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
646-205	F	D46 646	External Test Failure. Action: Run advanced diagnostics with wrap test for this resource to obtain a correct problem resolution.
646-206	F	240 646	External Test Failure. Action: Run advanced diagnostics with wrap test for this resource to obtain a correct problem resolution.
646-302	F	240 D46 221	External Test Failure. Action: Run advanced diagnostics with wrap test for this resource to obtain a correct problem resolution.
646-303	F	D46 646 221	External Test Failure. Action: Run advanced diagnostics with wrap test for this resource to obtain a correct problem resolution.
646-401	F	240 D46 646 221	External Test Failure. Action: Run advanced diagnostics with wrap test for this resource to obtain a correct problem resolution. Action: Use MAP 0210: General problem resolution.
646-701	G	646	Error log analysis indicates that an adapter error has occurred. Action: Use MAP 0210: General problem resolution.
646-702	G	646	Error log analysis indicates that an adapter check has occurred. Action: Use MAP 0210: General problem resolution.
646-703	G	646 221	Error log analysis indicates that a DMA failure has occurred. Action: Use MAP 0210: General problem resolution.
646-704	G	646 221	Error log analysis indicates that a PCI Bus error has occurred. Action: Use MAP 0210: General problem resolution.
646-705	G	646 221	Error log analysis indicates that a Programmed I/O error has occurred. Action: Use MAP 0210: General problem resolution.
646-706	G	646	ELA indicates a command write failure occurred. Action: Use MAP 0210: General problem resolution.
646-707	G	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	D	650	Disk drive configuration failed. Action: Use MAP 0210: General problem resolution.
653-xxx			SCSI devices SRNs ssss-102 through ssss-640.
655-001	D	655 221 Monitor/ Cable	Adapter problem. Action: Use MAP 0210: General problem resolution.
655-002	D	655 Monitor/ Cable	Display problem. Action: Use MAP 0210: General problem resolution.
655-003	D	software 655	Software error. Action: Use MAP 0210: General problem resolution.
657-001	D	software 657	Software error. Action: Use MAP 0210: General problem resolution.

## 60B-xxx through 6C9-600

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
657-002	D	657 software	Adapter failure. Action: Use MAP 0210: General problem resolution.
657-003	D	657 227	Adapter failure. Action: Use MAP 0210: General problem resolution.
657-004	D	657 Monitor/ Cable	Display failure. Action: Use MAP 0210: General problem resolution.
657-005	D	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	D	221	Enhanced error handling failure on the bus. Action: Use MAP 0210: General problem resolution.
662-102	D	293	Enhanced error handling failure on a PCI-PCI Bridge. Action: Use MAP 0210: General problem resolution.
662-103	D	662 221	Enhanced error handling failure on the adapter. Action: Use MAP 0210: General problem resolution.
662-212	D	662	FIFO empty bit set. Action: Use MAP 0210: General problem resolution.
662-213	D	662	FIFO empty bit clear. Action: Use MAP 0210: General problem resolution.
662-214	D	662	FIFO full bit set. Action: Use MAP 0210: General problem resolution.
662-215	D	662	FIFO full bit clear. Action: Use MAP 0210: General problem resolution.
662-216	D	662	FIFO data miscompare. Action: Use MAP 0210: General problem resolution.
662-217	D	662	SCSI FIFO data miscompare. Action: Use MAP 0210: General problem resolution.
662-218	D	662	SCSI FIFO underflow. Action: Use MAP 0210: General problem resolution.
662-219	D		SCSI parity error. Action: Go to SCSI Bus Problems.
662-220	D	662	SCSI FIFO flags error. Action: Use MAP 0210: General problem resolution.
662-221	D	662 221	Miscompare during the write/read of the configuration register. Action: Use MAP 0210: General problem resolution.
662-222	D	662	Error during the write/read of the memory register. Action: Use MAP 0210: General problem resolution.
662-223	D	662	Miscompare during the write/read of the memory I/O register. Action: Go to SCSI Bus Problems.
662-224	D	662 221	SCSI configuration register read or write error. Action: Use MAP 0210: General problem resolution.



Service Request Number	SRN Src.	Failing Function Codes	Description and Action
662-225	D	662	Adapter POST failed. Action: Use MAP 0210: General problem resolution.
662-226	D		SCSI wrap or PTC failure. Action: Go to SCSI Bus Problems.
662-227	D	662 221	SCSI adapter test failure. Action: Use MAP 0210: General problem resolution.
662-230	D		Arbitration test failed. Action: Go to SCSI Bus Problems.
662-231	D		Function could not complete. Action: Go to SCSI Bus Problems.
662-232	D		SCSI bus data miscompare. Action: Go to SCSI Bus Problems.
662-240	D		No terminal power. Action: Go to SCSI Bus Problems.
662-242	D		SCSI bus problem. Action: Go to SCSI Bus Problems.
662-301	D	662 221	The parent device open failed. Action: Use MAP 0210: General problem resolution.
662-701	G	662	Error log analysis indicates a PCI SCSI adapter failure. Action: Use MAP 0210: General problem resolution.
662-801	G		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.
662-802	G		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	G		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	D	663 C94 C95	IBM ARTIC960RxD or RxF PCI Adapter Central Processing Unit test failure. Action: Use MAP 0210: General problem resolution.
663-102	D	663 C94 C95	IBM ARTIC960RxD or RxF PCI Adapter Timer test failure. Action: Use MAP 0210: General problem resolution.
663-103	D	663 C94 C95	IBM ARTIC960RxD or RxF PCI Adapter Bus Interface test failure. Action: Use MAP 0210: General problem resolution.
663-104	D	C94 663 C95	IBM ARTIC960RxD or RxF PCI Adapter Dynamic Random Access Memory test failure. Action: Use MAP 0210: General problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
663-105	D	663 C94 C95	IBM ARTIC960RxD or RxF PCI Adapter Memory Protection test failure. Action: Use MAP 0210: General problem resolution.
663-106	D	663 C94 C95	IBM ARTIC960RxD PCI Adapter Debug Port test failure. Action: Use MAP 0210: General problem resolution.
663-107	D	C95663 C97	Interface board wrap test failure. Action: Use MAP 0210: General problem resolution.
663-110	D	C94 663 C95	IBM ARTIC960RxD or RxF PCI Adapter Download Diagnostics test failure. Action: Use MAP 0210: General problem resolution.
663-123	D	C95 663 C94	Interface board non-wrap test failure. Action: Use MAP 0210: General problem resolution.
663-150	D	663 software 227	Device configuration failure. Action: Use MAP 0210: General problem resolution.
663-151	D	663 software 227	Device driver indicates a hardware failure. Action: Use MAP 0210: General problem resolution.
663-152	D	663	Failure and error in determining which type of IBM ARTIC960RxD PCI Adapter. Action: Use MAP 0210: General problem resolution.
663-153	D	663 227 C94 software	Error log analysis indicates a IBM ARTIC960RxD or RxF PCI Adapter failure. Action: Use the <b>errpt</b> command to check error log. Action: Use MAP 0210: General problem resolution.
663-154	D	C94 663 C95	IBM ARTIC960RxD or RxF PCI Adapter initialization failure. Action: Use MAP 0210: General problem resolution.
663-155	D	663 C94 C95	IBM ARTIC960RxD or RxF PCI Adapter initialization failure. Action: Use MAP 0210: General problem resolution.
663-156	D	C95 663 C94	IBM ARTIC960RxD or RxF PCI Adapter initialization failure. Action: Use MAP 0210: General problem resolution.
663-157	D	C98 C97 C95	Cable wrap test failure. Action: Use MAP 0210: General problem resolution.
664-111	D	664 B88	Unable to reserve device. Action: Use MAP 0210: General problem resolution.
664-112	D	664 B88	Unable to do configuration. Action: Use MAP 0210: General problem resolution.
664-113	D	664 B88	Unable to open the device driver. Action: Use MAP 0210: General problem resolution.
664-121	D	664	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
664-122	D	664	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
664-123	D	664	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
664-125	D	664 B88	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
664-126	D	664	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
664-127	D	664	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
664-128	D	664	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
664-129	D	664	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
664-150	D	Test Disc 664	A media error was detected. Action: Use MAP 0210: General problem resolution.
664-151	D	664 B88	A command timeout was detected. Action: Use MAP 0210: General problem resolution.
664-152	D	664	A command reservation conflict was detected. Action: Use MAP 0210: General problem resolution.
664-162	D	664	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
664-171	D	664	Unable to reserve device. Action: Use MAP 0210: General problem resolution.
664-172	D	664	Unable to do configuration. Action: Use MAP 0210: General problem resolution.
664-173	D	664	Unable to open device driver. Action: Use MAP 0210: General problem resolution.
664-175	D	664	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
664-198	D	664 B88	Undefined error detected. Action: Use MAP 0210: General problem resolution.
664-199	D	664	Undefined error detected. Action: Use MAP 0210: General problem resolution.
664-211	D	664	The LED test failed. Action: Use MAP 0210: General problem resolution.
664-281	D	664	No tone during audio test. Action: Use MAP 0210: General problem resolution.
664-301	G	664	Errors found during ELA. Action: Use MAP 0210: General problem resolution.
664-302	G	664 B88	Errors found during ELA. Action: Use MAP 0210: General problem resolution.
667-101	D	667 227	The PCI wrap test failed. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
667-102	D	667	The POST indicates an adapter failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.

**60B-xxx through 6C9-600**

<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
667-103	D	667	The POST indicates an adapter channel failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
667-104	D	190	The POST indicates a defective cable. Action: Use MAP 0210: General problem resolution.
667-105	D	B3A	The POST indicates a defective backplane or external enclosure. Action: Use MAP 0210: General problem resolution.
667-106	D	722	The POST indicates the last disk drive reconnected caused a channel failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
667-108	D	221	Enhanced error handling failure on bus. Action: Use MAP 0210: General problem resolution.
667-109	D	667	The NVRAM test indicates an adapter failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
667-110	D	722	The disk reported a Predictive Failure Analysis error (PFA). Action: Use MAP 0270: SCSI RAID problem resolution and verification.
667-111	D	722	The disk drive has been failed by the adapter. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
667-112	G	722	ELA indicates that the disk reported a hard data error. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
667-113	G	722	ELA indicates that the disk reported a hard equipment error. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
667-114	G	E29	ELA indicates a cache failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
667-115	G	E30	ELA indicates that the cache battery is either low on power or has failed. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
667-116	D	667	Failed to disable data scrub. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
667-117	D	E29	POST indicates cache failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
667-118	D	E29	NVRAM test indicates cache failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
667-119	D	E29	NVRAM test indicates that write cache is missing. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
667-120	D	E29	NVRAM test indicates that cache size is invalid. Action: Use MAP 0270: SCSI RAID problem resolution and verification.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
667-121	D	E30	Adapter test indicates that the cache battery is low on power. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
667-122	D	E30	Adapter test indicates cache battery failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
667-123	D	667	ELA indicates an adapter failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
667-124	D	221	Enhanced error handling failure on PCI-PCI Bridge. Action: Use MAP 0210: General problem resolution.
667-125	D	667 221	Enhanced error handling failure on adapter. Action: Use MAP 0210: General problem resolution.
667-400	F	667 190 B3A 722	POST indicates a channel failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
667-701	G	667 221	Error Log Analysis indicates an enhanced error handling error. Action: Use MAP 0210: General problem resolution.
669-101	D	221	Enhanced error handling failure on bus. Action: Use MAP 0210: General problem resolution.
669-102	D	221	Enhanced error handling failure on Eads chip. Action: Use MAP 0210: General problem resolution.
669-103	D	669	Enhanced error handling failure on adapter. Action: Use MAP 0210: General problem resolution.
669-201	D	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	D	669	I/O register test failure. Action: Use MAP 0210: General problem resolution.
669-203	D	669	Adapter memory test failure. Action: Use MAP 0210: General problem resolution.
669-204	D	669	Adapter initialization test failure. Action: Use MAP 0210: General problem resolution.
669-205	D	669	Internal loopback test failure. Action: Use MAP 0210: General problem resolution.
669-206	D	669	External wrap test failure (1000 Mbps). Action: Use MAP 0210: General problem resolution.
669-701	G	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	G	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	G	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.

## 60B-xxx through 6C9-600

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
669-704	G	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	G		Diagnostics indicates adapter configuration failure. Action: Use MAP 0210: General problem resolution.
66C-101	D	221	Enhanced error handling failure on bus. Action: Use MAP 0210: General problem resolution.
66C-102	D	221	Enhanced error handling failure on Eads chip. Action: Use MAP 0210: General problem resolution.
66C-103	D	66C	Enhanced error handling failure on adapter. Action: Use MAP 0210: General problem resolution.
66C-201	D	66C 221	Configuration register test failure. Action: Use MAP 0210: General problem resolution.
66C-202	D	66C	I/O register test failure. Action: Use MAP 0210: General problem resolution.
66C-203	D	66C	Adapter memory test failure. Action: Use MAP 0210: General problem resolution.
66C-204	D	66C	Adapter initialization test failure. Action: Use MAP 0210: General problem resolution.
66C-205	D	66C	Internal loopback test failure. Action: Use MAP 0210: General problem resolution.
66C-206	D	66C	External wrap test failure (1000 Mbps). Action: Use MAP 0210: General problem resolution.
66C-207	D	66C	External wrap test failure (10 Mbps). Action: Use MAP 0210: General problem resolution.
66C-208	D	66C	External wrap test failure (100 Mbps). Action: Use MAP 0210: General problem resolution.
66C-702	G	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	G	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	G	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	D	66D 227	The PCI wrap test failed. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-102	D	66D E2A	The POST indicates an adapter failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-103	D	66D	The POST indicates an adapter channel failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-104	D	190	The POST indicates a defective cable. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
66D-105	D	B3A	The POST indicates a defective backplane or external enclosure. Action: Use MAP 0210: General problem resolution.
66D-106	D	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	D	221	Enhanced error handling failure on bus. Action: Use MAP 0210: General problem resolution.
66D-109	D	66D	The test indicates an adapter failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-110	D	722	The disk reported a Predictive Failure Analysis error (PFA). Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-111	D	722	The disk drive has been failed by the adapter. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-112	G	722	ELA indicates that the disk reported a hard data error. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-113	G	722	ELA indicates that the disk reported a hard equipment error. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-114	G	E2A	ELA indicates a cache failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-115	G	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	D	66D	Failed to disable data scrub. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-117	D	E2A	POST indicates cache failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-118	D	E2A	Adapter test indicates a cache failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-119	D	E2A	Adapter test indicates that write cache is missing. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-120	D	E2A	Adapter test indicates that cache size is invalid. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-121	D	E3A	Adapter test indicates that the cache battery is low on power. Action: Use MAP 0270: SCSI RAID problem resolution and verification.

## 60B-xxx through 6C9-600

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
66D-122	D	E3A	Adapter test indicates cache battery failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-123	D	66D	ELA indicates an adapter failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-124	D	221	Enhanced error handling failure on PCI-PCI Bridge. Action: Use MAP 0210: General problem resolution.
66D-125	D	66D 221	Enhanced error handling failure on adapter. Action: Use MAP 0210: General problem resolution.
66D-400	F	66D 190 B3A 722	The POST test indicates a channel failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
66D-701	G	66D 221	Error Log Analysis indicates an enhanced error handling error. Action: Use MAP 0210: General problem resolution.
66E-100	D	66E	Unable to configure the parent device. Action: Use MAP 0210: General problem resolution.
66E-102	D	66E	SCSI command <b>Inquiry</b> has failed. Unable to get Additional Vital Product Data. Action: Use MAP 0210: General problem resolution.
66E-103	D	66E	SCSI command <b>Reserve</b> has failed. Action: Use MAP 0210: General problem resolution.
66E-104	D	66E	SCSI command <b>Mode Sense</b> has failed. Action: Use MAP 0210: General problem resolution.
66E-105	D	66E	SCSI command <b>Mode Select</b> has failed. Action: Use MAP 0210: General problem resolution.
66E-106	D	66E	SCSI command <b>Allow Media Removal</b> has failed. Action: Use MAP 0210: General problem resolution.
66E-107	D	66E	SCSI command <b>Prevent Media Removal</b> has failed. Action: Use MAP 0210: General problem resolution.
66E-108	D	66E	SCSI command <b>Start Stop Unit</b> has failed. Action: Use MAP 0210: General problem resolution.
66E-109	D	66E	SCSI command <b>Test Unit Ready</b> has failed. Action: Use MAP 0210: General problem resolution.
66E-10A	D	66E	SCSI command <b>Send Diagnostic</b> has failed. Action: Use MAP 0210: General problem resolution.
66E-10B	D	66E	SCSI command <b>Release</b> has failed. Action: Use MAP 0210: General problem resolution.
66E-10F	D	66E	Undetermined hardware error has occurred. Action: Use MAP 0210: General problem resolution.
66E-200	D	66E B88	Unable to configure the device. Action: Use MAP 0210: General problem resolution.
66E-201	D	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.



Service Request Number	SRN Src.	Failing Function Codes	Description and Action
66E-202	D	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	D	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	D	66E B88	A SCSI reservation conflict has occurred. Action: Use MAP 0210: General problem resolution.
66E-205	D	media 66E	The <b>Random Write/Read/Compare Test</b> 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	D	66E media	The <b>Random Write/Read/Compare Test</b> 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	D	media 66E	The <b>Random Read Test</b> 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	D	66E media	The <b>Random Read Test</b> 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.
66E-209	D	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. Use MAP 0210: General problem resolution.
66E-20A	D	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	D	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	D	66E B88 190	SCSI command timeout has occurred. Action: Use MAP 0210: General problem resolution. to replace the defective DVD-ROM drive.
66E-301	D	B88 190 66E	Unit Attention has occurred. Action: Use MAP 0210: General problem resolution.
66E-700	G	66E	ELA indicates an irrecoverable hardware error. Action: Use MAP 0210: General problem resolution.
66E-701	G	66E	ELA indicates an undetermined hardware error. Action: Use MAP 0210: General problem resolution.

## 60B-xxx through 6C9-600

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
670-xxx to 673-xxx			See SCSI devices SRNs ssss-102 through ssss-640.
674-101	D	674 C94 C95	IBM ARTIC960Rx PCI Adapter Central Processing Unit (CPU) test failure. Action: Use MAP 0210: General problem resolution.
674-102	D	674 C94 C95	IBM ARTIC960Rx PCI Adapter Timer test failure. Action: Use MAP 0210: General problem resolution.
674-103	D	674 C94 C95	IBM ARTIC960Rx PCI Adapter Bus Interface test failure. Action: Use MAP 0210: General problem resolution.
674-104	D	C94 674 C95	IBM ARTIC960Rx PCI Adapter Dynamic Random Access Memory (DRAM) test failure. Action: Use MAP 0210: General problem resolution.
674-105	D	674 C94 C95	IBM ARTIC960Rx PCI Adapter Memory Protection test failure. Action: Use MAP 0210: General problem resolution.
674-106	D	674 C94 C95	IBM ARTIC960Rx PCI Adapter Debug Port test failure. Action: Use MAP 0210: General problem resolution.
674-107	D	C95 674 C97	Interface board wrap test failure. Action: Use MAP 0210: General problem resolution.
674-110	D	C94 674 C95	IBM ARTIC960Rx PCI Adapter Download Diagnostics test failure. Action: Use MAP 0210: General problem resolution.
674-123	D	C95 C97	Interface board non-wrap test failure. Action: Use MAP 0210: General problem resolution.
674-150	D	674 software 227	Device configuration failure. Action: Use MAP 0210: General problem resolution.
674-151	D	674 software 227	Device driver indicates a hardware failure. Action: Use MAP 0210: General problem resolution.
674-152	D	674	Failure and error in determining which type of IBM ARTIC960Rx PCI Adapter. Action: Use MAP 0210: General problem resolution.
674-153	D	674 227 C94 software	Error log analysis indicates a IBM ARTIC960Rx PCI Adapter failure. Action: Use the <b>errpt</b> command to check error log. Action: Use MAP 0210: General problem resolution.
674-154	D	C94 674 C95	IBM ARTIC960Rx PCI Adapter initialization failure. Action: Use MAP 0210: General problem resolution.
674-155	D	674 C94 C95	IBM ARTIC960Rx PCI Adapter initialization failure. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
674-156	D	C95 674 C94	IBM ARTIC960Rx PCI Adapter initialization failure. Action: Use MAP 0210: General problem resolution.
674-157	D	C97 C95	Cable wrap test failure. Action: Use MAP 0210: General problem resolution.
675-101	D	675 C94 C95	IBM ARTIC960Hx Adapter Central Processing Unit (CPU) test failure. Action: Use MAP 0210: General problem resolution.
675-102	D	675 C94 C95	IBM ARTIC960Hx Adapter Timer test failure. Action: Use MAP 0210: General problem resolution.
675-103	D	675 C94 C95	IBM ARTIC960Hx Adapter Bus Interface test failure. Action: Use MAP 0210: General problem resolution.
675-104	D	C94 675 C95	IBM ARTIC960Hx Adapter Dynamic Random Access Memory (DRAM) test failure. Action: Use MAP 0210: General problem resolution.
675-105	D	675 C94 C95	IBM ARTIC960Hx Adapter Memory Protection test failure. Action: Use MAP 0210: General problem resolution.
675-106	D	675 C94 C95	IBM ARTIC960Hx Adapter Debug Port test failure. Action: Use MAP 0210: General problem resolution.
675-107	D	C95 675 C97	Interface board wrap test failure. Action: Use MAP 0210: General problem resolution.
675-110	D	C94 675 C95	IBM ARTIC960Hx Adapter Download Diagnostics test failure. Action: Use MAP 0210: General problem resolution.
675-123	D	C95 675 C94	Interface board non-wrap test failure. Action: Use MAP 0210: General problem resolution.
675-150	D	675 software 227	Device configuration failure. Action: Use MAP 0210: General problem resolution.
675-151	D	675 software 227	Device driver indicates a hardware failure. Action: Use MAP 0210: General problem resolution.
675-152	D	675	Failure and error in determining which type of IBM ARTIC960Hx Adapter. Action: Use MAP 0210: General problem resolution.
675-153	D	675 227 C94 software	Error log analysis indicates a IBM ARTIC960Hx Adapter failure. Action: Use the <b>errpt</b> command to check error log.MAP 0210: General problem resolution.
675-154	D	C94 675 C95	IBM ARTIC960Hx Adapter initialization failure. Action: Use the MAP 0210: General problem resolution.

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<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
675-155	D	675 C94 C95	IBM ARTIC960Hx Adapter initialization failure. Action: Use the MAP 0210: General problem resolution.
675-156	D	C95 675 C94	IBM ARTIC960Hx Adapter initialization failure. Action: Use the MAP 0210: General problem resolution.
675-157	D	C98 C97 C95	Cable wrap test failure. Action: Use the MAP 0210: General problem resolution.
677-101	D	677	The Fibre Channel Adapter configuration failed. Action: Use the MAP 0210: General problem resolution.
677-102	D	677	The Reset test failed. Action: Use the MAP 0210: General problem resolution.
677-103	D	677	The Register test failed. Action: Use the MAP 0210: General problem resolution.
677-104	D	677	The SRAM test failed. Action: Use the MAP 0210: General problem resolution.
677-105	D	677	The Internal Wrap test failed. Action: Use the MAP 0210: General problem resolution.
677-106	D	677	The Gigabaud Link Module (GLM) Wrap Test Failure. Action: Use the MAP 0210: General problem resolution.
677-107	D	677	The External Wrap test failed. Action: Use the MAP 0210: General problem resolution.
677-109	D	221	Enhanced Error Handling Failure on EADs chip. Action: Use the MAP 0210: General problem resolution.
677-110	D	677	Enhanced Error Handling Failure on adapter. Action: Use the MAP 0210: General problem resolution.
677-201	D	677 221	The Configuration Register test failed. Action: Use the MAP 0210: General problem resolution.
677-202	D	677 221	The Interrupt test failed. Action: Use the MAP 0210: General problem resolution.
677-203	D	677 221	The PCI Wrap test failed. Action: Use the MAP 0210: General problem resolution.
677-204	D	677 221	The DMA test failed. Action: Use the MAP 0210: General problem resolution.
677-205	D	677 221	I/O error on a read/write operation. Action: Use the MAP 0210: General problem resolution.
677-701	G	677 221	Error log analysis indicates that an error has occurred with the adapter. Action: Use the MAP 0210: General problem resolution.
677-703	G	677	Error log analysis indicates that an unknown adapter error has occurred. Action: Use the MAP 0210: General problem resolution.
677-704	G	677	Error log analysis indicates that an adapter error has occurred. Action: Use MAP 0210: General problem resolution.
678-098	J	678	Tape drive indicates an error. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
678-099	J	678 B88	Tape drive not found. Action: Use MAP 0210: General problem resolution.
678-101	D	678	Timeout while attempting to communicate with SCSI device. Action: Use MAP 0210: General problem resolution.
678-102	D	678	The SCSI device indicates busy. Action: Use MAP 0210: General problem resolution.
678-103	D	678	The SCSI device indicates a reservation conflict. Action: Use MAP 0210: General problem resolution.
678-104	D	678	The SCSI device indicates a check condition. Action: Use MAP 0210: General problem resolution.
678-105	D	678	An error is detected in request sense data. Action: Use MAP 0210: General problem resolution.
678-107	D	678	Sense data from the SCSI drive has unexpected data. Action: Use MAP 0210: General problem resolution.
678-110	D	678	The <b>Reserve</b> command failed. Action: Use MAP 0210: General problem resolution.
678-111	D	678	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution.
678-112	D	678	The write-protect sensor test failed. Action: Use MAP 0210: General problem resolution.
678-113	D	678	Invalid condition from drive after a request sense. Action: Use MAP 0210: General problem resolution.
678-114	D	678	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution.
678-120	D	678	The <b>Inquiry</b> command failed. Action: Use MAP 0210: General problem resolution.
678-130	D	678 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution.
678-134	D	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
678-135	D	678 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution.
678-140	D	678	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution.
678-150	D	678 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution.
678-160	D	678 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution.
678-161	D	678 B88	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution.
678-163	D	678 B88	Invalid condition from the drive after a request sense. Action: Use MAP 0210: General problem resolution.
678-164	D	678 B88	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution.
678-165	D	678 B88 276	Write, Read and Compare Test failed. Action: Use MAP 0210: General problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
678-166	D	678 B88 software	Unable to configure the device. Action: Use MAP 0210: General problem resolution.
678-167	D	678 B88	An unexpected SCSI error occurred. Action: Use MAP 0210: General problem resolution.
678-168	D	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
678-169	D	678 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution.
678-170	D	678 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
678-180	D	678 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution.
678-185	D	678 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution.
678-190	D	678	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution.
678-200	D	678 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution.
678-201	G	678 B88	Error diagnosed from error log analysis. Action: Use MAP 0210: General problem resolution.
678-210	D	678 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
678-211	D	678 B88	The device open failed. Action: Use MAP 0210: General problem resolution.
678-220	D	678	The <b>Release</b> command failed. Action: Use MAP 0210: General problem resolution.
678-230	D	678	The <b>Request Sense</b> command failed. Action: Use MAP 0210: General problem resolution.
678-240	D	678	The <b>Openx</b> command failed. Action: Use MAP 0210: General problem resolution.
678-260	D	678	The device configuration failed. Action: Use MAP 0210: General problem resolution.
678-261	D	678	The device open failed. Action: Use MAP 0210: General problem resolution.
678-300	D	678 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
678-310	D	B88 678 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
678-320	G	678 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
678-411 to 678-423	D	678 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
678-511 to 678-523	D	678 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
678-611 to 678-623	D	678 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
678-711 to 678-723	D	678 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.
679-xxx			See SCSI devices SRNs ssss-102 through ssss-640.
67B-100	D	67B	POST failed: Catastrophic error detected. Action: Use MAP 0210: General problem resolution.
67B-601	G	11A	ELA indicates a low battery warning. Action: Use MAP 0210: General problem resolution.
67B-602	G	67B	ELA indicates a mesh violation - tamper. Action: Use MAP 0210: General problem resolution.
67B-603	G	67B	ELA indicates the coprocessor is held in a reset condition. Action: Use MAP 0210: General problem resolution.
67B-604	G	67B	ELA indicates a +3, +5, or +12 V over-voltage condition. Action: Use MAP 0210: General problem resolution.
67B-605	G	67B	ELA indicates an out-of-temperature specification. Action: Use MAP 0210: General problem resolution.
67B-606	G	67B	ELA indicates a X-ray or dead battery condition. Action: Use MAP 0210: General problem resolution.
67B-607	G	67B	ELA indicates: Intrusion latch. Action: Use MAP 0210: General problem resolution.
67E-001	D	67E 221 Monitor/Cable	Adapter problem. Action: Use MAP 0210: General problem resolution.
67E-002	D	67E Monitor/Cable	Display problem. Action: Use MAP 0210: General problem resolution.
67E-003	D	software 67E	Software error. Action: Use MAP 0210: General problem resolution.
67E-004	D	67E Monitor/Cable	The monitor test failed. Action: Use MAP 0210: General problem resolution.
681-xxx			SCSI devices SRNs ssss-102 through ssss-640.
682-111	D	682 B88	Unable to reserve device. Action: Use MAP 0210: General problem resolution.
682-112	D	682 B88	Unable to do configuration. Action: Use MAP 0210: General problem resolution.
682-113	D	682 B88	Unable to open the device driver. Action: Use MAP 0210: General problem resolution.
682-121	D	682	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.

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<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
682-122	D	682	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
682-123	D	682	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
682-125	D	682 B88	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
682-126	D	682	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
682-127	D	682	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
682-128	D	682	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
682-129	D	682	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
682-150	D	Test Disc 682	A media error was detected. Action: Use MAP 0210: General problem resolution.
682-151	D	682 B88	A command timeout was detected. Action: Use MAP 0210: General problem resolution.
682-152	D	682	A command reservation conflict was detected. Action: Use MAP 0210: General problem resolution.
682-162	D	682	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
682-171	D	682	Unable to reserve device. Action: Use MAP 0210: General problem resolution.
682-172	D	682	Unable to do configuration. Action: Use MAP 0210: General problem resolution.
682-173	D	682	Unable to open device driver. Action: Use MAP 0210: General problem resolution.
682-175	D	682	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
682-198	D	682 B88	Undefined error detected. Action: Use MAP 0210: General problem resolution.
682-199	D	682	Undefined error detected. Action: Use MAP 0210: General problem resolution.
682-211	D	682	The LED test failed. Action: Use MAP 0210: General problem resolution.
682-281	D	682	No tone during audio test. Action: Use MAP 0210: General problem resolution.
682-301	G	682	Errors found during ELA. Action: Use MAP 0210: General problem resolution.
682-302	G	682 B88	Errors found during ELA. Action: Use MAP 0210: General problem resolution.
683-128	G	683	Error Log Analysis Indicates hardware failure VSS2105 Model B09. Action: Use MAP 0210: General problem resolution.
685-001	D	685 Monitor/ cable	RGB_SCREEN_USER_FAIL Action: Use MAP 0210: General problem resolution.



Service Request Number	SRN Src.	Failing Function Codes	Description and Action
685-040	D	685 227 Monitor/ cable	STATUS_POLL_TIMEOUT_ERROR Action: Use MAP 0210: General problem resolution.
685-041	D	685 227 Monitor/ cable	CRC_POLL_TIMEOUT_ERROR Action: Use MAP 0210: General problem resolution.
685-060	D	software 685	SVC_AIDS_INPUT_ERROR Action: Use MAP 0210: General problem resolution.
685-081	D	software 685	LOOP_COUNT_WAS_ZERO Action: Use MAP 0210: General problem resolution.
685-082	D	software 685	INVALID_TU_NUMBER Action: Use MAP 0210: General problem resolution.
685-0B0	D	software 685	ROM test failed. Action: Use MAP 0210: General problem resolution.
685-0B1	D	software 685	ROM test failed. Action: Use MAP 0210: General problem resolution.
685-0D0	D	softwar 685	INTERNAL_ERROR_DATA_SIZE_0 Action: Use MAP 0210: General problem resolution.
685-0D1	D	software 685	INTERNAL_ERROR_DATA_SIZE_1 Action: Use MAP 0210: General problem resolution.
685-0D2	D	software 685	INTERNAL_ERROR_DATA_SIZE_2 Action: Use MAP 0210: General problem resolution.
685-0D3	D	software 685	INTERNAL_ERROR_DATA_SIZE_3 Action: Use MAP 0210: General problem resolution.
685-0D5	D	software 685	ODM_INIT_FAILED Action: Use MAP 0210: General problem resolution
685-0D6	D	software 685	ODM_OBJECT_SEARCH_FAILED Action: Use MAP 0210: General problem resolution
685-0D8	D	software 685	ODM_GET_OBJECT_FAILED Action: Use MAP 0210: General problem resolution.
685-0D9	D	software 685	ODM_TERM_FAILED Action: Use MAP 0210: General problem resolution.
685-0DB	D	software 685	.ILLEGAL_RESOLUTION_SPECIFIED Action: Use MAP 0210: General problem resolution
685-0E5	D	software 685	AIXGSC_MGA_START_INTERRUPT_FAILED Action: Use MAP 0210: General problem resolution
685-0E6	D	software 685	AIXGSC_MGA_STOP_INTERRUPT_FAILED Action: Use MAP 0210: General problem resolution
685-0E7	D	software 685	MDD_OPEN_BUS_FAILED Action: Use MAP 0210: General problem resolution
685-0E8	D	software 685	MDD_IOCTL_ERROR Action: Use MAP 0210: General problem resolution
685-0E9	D	software 685	OPEN_RCM_ERROR Action: Use MAP 0210: General problem resolution

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<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
685-0EA	D	software 685	IOCTL_GSC_HANDLE_FAILED Action: Use MAP 0210: General problem resolution
685-0EB	D	software 685	AIXGSC_MAKE_GP_FAILED Action: Use MAP 0210: General problem resolution
685-0EC	D	software 685	AIXGSC_UNMAKE_GP_FAILED Action: Use MAP 0210: General problem resolution
685-0ED	D	software 685	DEVICE_BUSY_ERROR Action: Use MAP 0210: General problem resolution
685-0EE	D	software 685	AIXGSC_MGA_SET_DISPLAY_FAILED Action: Use MAP 0210: General problem resolution
685-100	D	685 227 Monitor/ cable	REG_32_BIT_PRTN_ERROR Action: Use MAP 0210: General problem resolution
685-101	D	685 227 Monitor/ cable	REG_32_BIT_ADDR_UNIQ_ERROR Action: Use MAP 0210: General problem resolution
685-102	D	685 227 Monitor/ cable	REG_8_BIT_PTRN_ERROR Action: Use MAP 0210: General problem resolution
685-103	D	685 227 Monitor/ cable	REG_8_BIT_ADDR_UNIQ_ERROR Action: Use MAP 0210: General problem resolution
685-104	D	685 227 Monitor/ cable	CRTC_REGS_PTRN_ERROR Action: Use MAP 0210: General problem resolution
685-105	D	685 227 Monitor/ cable	CRTC_REGS_ADDR_UNIQ_ERROR Action: Use MAP 0210: General problem resolution
685-106	D	685 227 Monitor/ cable	CRTCEXT_REGS_PTRN_ERROR Action: Use MAP 0210: General problem resolution
685-107	D	685 227 Monitor/ cable	CRTCEXT_REGS_ADDR_UNIQ_ERROR Action: Use MAP 0210: General problem resolution
685-108	D	685 227 Monitor/ cable	RAMDAC_REGS_PTRN_ERROR Action: Use MAP 0210: General problem resolution
685-109	D	685 227 Monitor/ cable	RAMDAC_REGS_ADDR_UNIQ_ERROR Action: Use MAP 0210: General problem resolution

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
685-10A	D	685 227 Monitor/ cable	PALETTE_REGS_PTRN_ERROR Action: Use MAP 0210: General problem resolution
685-10B	D	685 227 Monitor/ cable	PALETTE_REGS_ADDR_UNIQ_ERROR Action: Use MAP 0210: General problem resolution
685-200	D	685 227	ROM test failed. Action: Use MAP 0210: General problem resolution
685-201	D	685 227	ROM test failed. Action: Use MAP 0210: General problem resolution
685-202	D	685 227	ROM test failed. Action: Use MAP 0210: General problem resolution
685-203	D	685 227	ROM test failed. Action: Use MAP 0210: General problem resolution
685-204	D	685 227	ROM test failed. Action: Use MAP 0210: General problem resolution
685-205	D	685 227	ROM test failed. Action: Use MAP 0210: General problem resolution
685-206	D	685 227	ROM test failed. Action: Use MAP 0210: General problem resolution
685-207	D	685 227	ROM test failed. Action: Use MAP 0210: General problem resolution
685-208	D	685 227	ROM test failed. Action: Use MAP 0210: General problem resolution
685-209	D	685 227	ROM test failed. Action: Use MAP 0210: General problem resolution
685-20B	D	685 227	ROM test failed. Action: Use MAP 0210: General problem resolution
685-400	D	685 227 Monitor/ cable	SGRAM_RED_SCREEN_ERROR Action: Use MAP 0210: General problem resolution
685-401	D	685 227 Monitor/ cable	SGRAM_GREEN_SCREEN_ERROR Action: Use MAP 0210: General problem resolution
685-402	D	685 227 Monitor/ cable	SGRAM_BLUE_SCREEN_ERROR Action: Use MAP 0210: General problem resolution
685-403	D	685 227 Monitor/ cable	SGRAM_WHITE_SCREEN_ERROR Action: Use MAP 0210: General problem resolution

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
685-404	D	685 227 Monitor/ cable	SGRAM_INCREMENTING_SCREEN_ERROR Action: Use MAP 0210: General problem resolution
685-500	D	685 227 Monitor/ cable	BLIT_TEST_ERROR_640 x 480 Action: Use MAP 0210: General problem resolution
685-501	D	685 227 Monitor/ cable	BLIT_TEST_ERROR_800 x 600 Action: Use MAP 0210: General problem resolution
685-502	D	685 227 Monitor/ cable	BLIT_TEST_ERROR_1024 x 768 Action: Use MAP 0210: General problem resolution
685-503	D	685 227 Monitor/ cable	BLIT_TEST_ERROR_1280 x 1024 Action: Use MAP 0210: General problem resolution
685-504	D	software 685	INTERNAL_ERROR_DATA_SIZE_4 Action: Use MAP 0210: General problem resolution
685-600	D	685 227 Monitor/ cable	DRAW_TEST_ERROR_640 x 480_A Action: Use MAP 0210: General problem resolution
685-601	D	685 227 Monitor/ cable	DRAW_TEST_ERROR_800 x 600_A Action: Use MAP 0210: General problem resolution
685-602	D	685 227 Monitor/ cable	DRAW_TEST_ERROR_1024 x 768_A Action: Use MAP 0210: General problem resolution
685-603	D	685 227 Monitor/ cable	DRAW_TEST_ERROR_1280 x 1024_A Action: Use MAP 0210: General problem resolution
685-604	D	685 227 Monitor/ cable	INTERNAL_ERROR_DATA_SIZE_5 Action: Use MAP 0210: General problem resolution
685-605	D	685 227 Monitor/ cable	DRAW_TEST_ERROR_640 x 480_B Action: Use MAP 0210: General problem resolution
685-606	D	685 227 Monitor/ cable	DRAW_TEST_ERROR_800 x 600_B Action: Use MAP 0210: General problem resolution

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
685-607	D	685 227 Monitor/ cable	DRAW_TEST_ERROR_1024 x 768_B Action: Use MAP 0210: General problem resolution
685-608	D	685 227 Monitor/ cable	DRAW_TEST_ERROR_1280 x 1024_B Action: Use MAP 0210: General problem resolution
685-609	D	software 685	INTERNAL_ERROR_DATA_SIZE_6 Action: Use MAP 0210: General problem resolution
685-60A	D	685 227 Monitor/ cable	DRAW_TEST_ERROR_640 x 480_C Action: Use MAP 0210: General problem resolution
685-60B	D	685 227 Monitor/ cable	DRAW_TEST_ERROR_800 x 600_C Action: Use MAP 0210: General problem resolution
685-60C	D	685 227 Monitor/ cable	DRAW_TEST_ERROR_1024 x 768_C Action: Use MAP 0210: General problem resolution
685-60D	D	685 227 Monitor/ cable	DRAW_TEST_ERROR_1280 x 1024_C Action: Use MAP 0210: General problem resolution
685-60E	D	software 685	INTERNAL_ERROR_DATA_SIZE_7 Action: Use MAP 0210: General problem resolution
686-114	D	686	The register verification test failed. Action: Use MAP 0210: General problem resolution
686-124	D	686	The adapter RAM verification test failed. Action: Use MAP 0210: General problem resolution
686-152	D	686 D57	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution
686-153	D	686	The modem control line test failed. Action: Use MAP 0210: General problem resolution
686-252	D	686	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution
686-253	D	686	The modem control line test failed. Action: Use MAP 0210: General problem resolution
686-501	D	686	Adapter Reset failed Action: Use MAP 0210: General problem resolution
686-511	D	686	Adapter to host memory test failed (byte tag test). Action: Use MAP 0210: General problem resolution
686-512	D	686	Adapter to host memory test failed (word tag test). Action: Use MAP 0210: General problem resolution
686-513	D	686	Adapter to host memory test failed (byte pattern test). Action: Use MAP 0210: General problem resolution

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
686-514	D	686	Adapter to host memory test failed (word pattern test). Action: Use MAP 0210: General problem resolution
686-521	D	686	Adapter BIOS POST CPU failed. Action: Use MAP 0210: General problem resolution
686-522	D	686	Adapter BIOS POST Checksum failed. Action: Use MAP 0210: General problem resolution
686-523	D	686	Adapter BIOS POST Timer failed. Action: Use MAP 0210: General problem resolution
686-524	D	686	Adapter BIOS POST RAM failed. Action: Use MAP 0210: General problem resolution
686-526	D	686	Adapter BIOS POST Async Ports failed. Action: Use MAP 0210: General problem resolution
686-527	D	686	Adapter BIOS test failed. Action: Use MAP 0210: General problem resolution
686-528	D	686	Adapter BIOS Reset failed. Action: Use MAP 0210: General problem resolution
686-529	D	686	Adapter BIOS Download failed. Action: Use MAP 0210: General problem resolution
686-531	D	686	Adapter BIOS Command failed. Action: Use MAP 0210: General problem resolution
686-533	D	686	Adapter BIOS Timer test failed. Action: Use MAP 0210: General problem resolution
686-534	D	686	Adapter BIOS RAM test failed. Action: Use MAP 0210: General problem resolution
686-541	D	686	Port async internal loopback test failed (general). Action: Use MAP 0210: General problem resolution
686-542	D	686	Port async internal loopback test failed (no response from the port). Action: Use MAP 0210: General problem resolution
686-551	D	686	Port async external loopback test failed (general). Action: Use MAP 0210: General problem resolution
686-552	D	686	Port async external loopback test failed (data signals). Action: Use MAP 0210: General problem resolution
686-553	D	686	Port async external loopback test failed (control signals). Action: Use MAP 0210: General problem resolution
686-554	D	686	Port async external loopback test failed (modem signals). Action: Use MAP 0210: General problem resolution
686-555	D	686	Port async external loopback test failed (no response from port). Action: Use MAP 0210: General problem resolution
686-901 to 686-920	D	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	D	686 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
686-922 to 686-924	D	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	D	686	The adapter failed to configure software Action: Use MAP 0210: General problem resolution
686-926 to 686-950	D	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	D	687	The controller register test failed. Action: Use MAP 0210: General problem resolution
687-114	D	687	The register verification test failed. Action: Use MAP 0210: General problem resolution
687-124	D	687	The adapter RAM verification test failed. Action: Use MAP 0210: General problem resolution
687-144	D	687	The sync line test failed. Action: Use MAP 0210: General problem resolution
687-152	D	837 684 687 152	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution
687-153	D	687	The modem control line test failed. Action: Use MAP 0210: General problem resolution
687-244	D	687	The sync line test failed. Action: Use MAP 0210: General problem resolution
687-252	D	687	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution
687-253	D	687	The modem control line test failed. Action: Use MAP 0210: General problem resolution
687-501	D	687	Adapter Reset failed. Action: Use MAP 0210: General problem resolution
687-502	D	687	Adapter Fuse failed. Action: Use MAP 0210: General problem resolution
687-511	D	687	Adapter to host memory test failed (byte tag test). Action: Use MAP 0210: General problem resolution
687-512	D	687	Adapter to host memory test failed (word tag test). Action: Use MAP 0210: General problem resolution
687-513	D	687	Adapter to host memory test failed (byte pattern test). Action: Use MAP 0210: General problem resolution
687-514	D	687	Adapter to host memory test failed (word pattern test). Action: Use MAP 0210: General problem resolution

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<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
687-521	D	687	Adapter BIOS POST CPU failed. Action: Use MAP 0210: General problem resolution
687-522	D	687	Adapter BIOS POST Checksum failed. Action: Use MAP 0210: General problem resolution
687-523	D	687	Adapter BIOS POST Timer failed. Action: Use MAP 0210: General problem resolution
687-524	D	687	Adapter BIOS POST RAM failed. Action: Use MAP 0210: General problem resolution
687-525	D	687	Adapter BIOS POST Sync Line failed. Action: Use MAP 0210: General problem resolution
687-527	D	687	Adapter BIOS test failed. Action: Use MAP 0210: General problem resolution
687-528	D	687	Adapter BIOS Reset failed. Action: Use MAP 0210: General problem resolution
687-529	D	687	Adapter BIOS Download failed. Action: Use MAP 0210: General problem resolution
687-531	D	687	Adapter BIOS Command failed. Action: Use MAP 0210: General problem resolution
687-533	D	687	Adapter BIOS Timer test failed. Action: Use MAP 0210: General problem resolution
687-534	D	687	Adapter BIOS RAM test failed. Action: Use MAP 0210: General problem resolution
687-541	D	687	Port sync internal loopback test failed. Action: Use MAP 0210: General problem resolution
687-551	D	687	Port sync external loopback test failed. Action: Use MAP 0210: General problem resolution
687-600	D	837	232RAN status test failed. Action: Use MAP 0210: General problem resolution
687-700	D	684	422RAN status test failed. Action: Use MAP 0210: General problem resolution
687-901 to 687-920	D	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	D	software 687	The adapter failed to configure. Action: Use MAP 0210: General problem resolution
687-922 to 687-924	D	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	D	687 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution



Service Request Number	SRN Src.	Failing Function Codes	Description and Action
687-926 to 687-950	D	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	D	68C	Timeout while attempting to communicate with SCSI device. Action: Use MAP 0210: General problem resolution
68C-102	D	68C	The SCSI device indicates busy. Action: Use MAP 0210: General problem resolution.
68C-103	D	68C	The SCSI device indicates a reservation conflict. Action: Use MAP 0210: General problem resolution.
68C-104	D	68C	The SCSI device indicates a check condition. Action: Use MAP 0210: General problem resolution.
68C-105	D	68C	An error is detected in request sense data. Action: Use MAP 0210: General problem resolution.
68C-107	D	68C	Sense data from the SCSI drive has unexpected data. Action: Use MAP 0210: General problem resolution
68C-110	D	68C	The <b>Reserve</b> command failed. Action: Use MAP 0210: General problem resolution
68C-111	D	68C	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution
68C-112	D	68C	The write-protect sensor test failed. Action: Use MAP 0210: General problem resolution
68C-113	D	68C	Invalid condition from drive after a request sense. Action: Use MAP 0210: General problem resolution
68C-114	D	68C	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution
68C-120	D	68C	The <b>Inquiry</b> command failed. Action: Use MAP 0210: General problem resolution
68C-130	D	68C media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution
68C-134	D	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution
68C-135	D	68C media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution
68C-140	D	68C	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution
68C-150	D	68C media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution
68C-160	D	68C media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution.
68C-161	D	68C B88	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution.
68C-163	D	68C B88	Invalid condition from the drive after a request sense. Action: Use MAP 0210: General problem resolution.

**60B-xxx through 6C9-600**

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
68C-164	D	68C B88	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution.
68C-165	D	68C B88 276	Write, Read and Compare Test failed. Action: Use MAP 0210: General problem resolution.
68C-166	D	68C B88 software	Unable to configure the device. Action: Use MAP 0210: General problem resolution.
68C-167	D	68C B88	An unexpected SCSI error occurred. Action: Use MAP 0210: General problem resolution.
68C-168	D	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
68C-169	D	68C media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution.
68C-170	D	68C B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
68C-180	D	68C media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution.
68C-185	D	68C media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution.
68C-190	D	68C	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution.
68C-200	D	68C media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution.
68C-201	G	68C B88	Error diagnosed from error log analysis. Action: Use MAP 0210: General problem resolution.
68C-210	D	68C B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
68C-211	D	68C B88	The device open failed. Action: Use MAP 0210: General problem resolution.
68C-220	D	68C	The <b>Release</b> command failed. Action: Use MAP 0210: General problem resolution.
68C-230	D	68C	The <b>Request Sense</b> command failed. Action: Use MAP 0210: General problem resolution.
68C-240	D	68C	The <b>Openx</b> command failed. Action: Use MAP 0210: General problem resolution.
68C-260	D	68C	The device configuration failed. Action: Use MAP 0210: General problem resolution.
68C-261	D	68C	The device open failed. Action: Use MAP 0210: General problem resolution.
68C-300	D	68C software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
68C-310	D	B88 68C software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
68C-320	G	68C media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
68C-411 to 68C-423	D	68C B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.
68C-511 to 68C-523	D	68C B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
68C-611 to 68C-623	D	68C B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
68C-711 to 68C-723	D	68C B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.
68E-001	D	Software 68E	Software error. Action: Use MAP 0210: General problem resolution.
68E-002	D	68E Software	Adapter failure. Action: Use MAP 0210: General problem resolution.
68E-003	D	68E 227	Adapter failure. Action: Use MAP 0210: General problem resolution.
68E-004	D	68E Monitor/ Cable	Display failure. Action: Use MAP 0210: General problem resolution.
68E-005	D	68E 227 Monitor/ Cable	Adapter failure. Action: Use MAP 0210: General problem resolution.
690-xxx			See SCSI devices SRNs ssss-102 through ssss-640.
691-200	D	691 227	The ATM 25Mbps Adapter open test failed. Action: Use MAP 0210: General problem resolution.
691-202	D	691 227	The ATM 25Mbps Adapter register test failed. Action: Use MAP 0210: General problem resolution.
691-203	D	691 227	The ATM 25Mbps Adapter memory test failed. Action: Use MAP 0210: General problem resolution.
691-204	D	691 227	The ATM 25Mbps Adapter NVRAM test failed. Action: Use MAP 0210: General problem resolution.
691-205	D	691 227	The ATM 25Mbps Adapter interrupt test failed. Action: Use MAP 0210: General problem resolution.
691-206	D	691 227	The ATM 25Mbps Adapter wrap test failed. Action: Use MAP 0210: General problem resolution.
691-210	D	691 227	The ATM 25Mbps Adapter close test failed. Action: Use MAP 0210: General problem resolution.
691-220	D	691 227	The ATM 25Mbps Adapter was not found. Action: Re-install the ATM 25Mbps Adapter and re-run the test. If the error continues, use MAP 0210: General problem resolution.
691-300	D	Wrap Plug 691 227	The ATM 25Mbps Adapter wrap test failed. Action: Re-install the wrap plug and re-run the test. If the error continues, use MAP 0210: General problem resolution.

60B-xxx through 6C9-600

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
691-700	G	691 227	Error log analysis reported a hardware error. Action: Use MAP 0210: General problem resolution.
692-110	D	692	The <b>Reserve</b> command failed. Action: Use MAP 0210: General problem resolution.
692-120	D	692	The <b>Inquiry</b> command failed. Action: Use MAP 0210: General problem resolution.
692-130	D	692 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution.
692-135	D	692 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution.
692-140	D	692	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution.
692-150	D	692 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution.
692-160	D	692 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution.
692-169	D	692 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution.
692-170	D	692 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
692-180	D	692 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution.
692-185	D	692 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution.
692-190	D	692	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution.
692-200	D	692 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution.
692-210	D	692 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
692-220	D	692	The <b>Release</b> command failed. Action: Use MAP 0210: General problem resolution.
692-230	D	692	The <b>Request Sense</b> command failed. Action: Use MAP 0210: General problem resolution.
692-240	D	692	The <b>Openx</b> command failed. Action: Use MAP 0210: General problem resolution.
692-300	D	692 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
692-310	D	B88 692 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
692-320	G	692 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
692-411 to 692-423	D	692 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
692-511 to 692-523	D	692 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
692-611 to 692-623	D	692 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
692-711 to 692-723	D	692 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.
693-100	D	693 227	Adapter open failed. Action: Use MAP 0210: General problem resolution.
693-101	D	693 227	Adapter config register test failed. Action: Use MAP 0210: General problem resolution.
693-102	D	693 227	Adapter reset failed. Action: Use MAP 0210: General problem resolution.
693-103	D	693 227	Adapter I/O register test failed. Action: Use MAP 0210: General problem resolution.
693-104	D	693 227	Adapter microcode download test failed. Action: Use MAP 0210: General problem resolution.
693-105	D	693 227	Adapter internal wrap test failed. Action: Use MAP 0210: General problem resolution.
693-106	D	693 227	Adapter close failed. Action: Use MAP 0210: General problem resolution.
697-100	D	697 software 227	Charm memory write failure. Action: Use MAP 0210: General problem resolution.
697-101	D	697 software 227	Charm memory read failure. Action: Use MAP 0210: General problem resolution.
697-102	D	697 software 227	PCI configuration register write failure. Action: Use MAP 0210: General problem resolution.
697-103	D	697 software 227	Charm software reset failure. Action: Use MAP 0210: General problem resolution.
697-104	D	697 software 227	Packet memory error. Action: Use MAP 0210: General problem resolution.
697-105	D	697 software 227	Control memory failure. Action: Use MAP 0210: General problem resolution.
697-106	D	697	Link-R detected bad parity. Action: Use MAP 0210: General problem resolution.
697-107	D	697	Suni detected bad parity. Action: Use MAP 0210: General problem resolution.
697-108	D	697	Suni initialization failure. Action: Use MAP 0210: General problem resolution.

## 60B-xxx through 6C9-600

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
697-109	D	Wrap Plug 697	Loss of light detected in Link test. Action: Check wrap plug installation. Action: Use MAP 0210: General problem resolution.
697-10B	D	Wrap Plug 697	External Loopback failed Action: Check wrap plug installation. Action: Use MAP 0210: General problem resolution.
697-10C	D	697 software 227	Internal Loopback failed. Action: Use MAP 0210: General problem resolution.
697-10D	D	697 227 software	DMS failed. Action: Use MAP 0210: General problem resolution.
697-121	D	697	Adapter memory test failure. Action: Use MAP 0210: General problem resolution.
697-122	D	697	Adapter checksum failure. Action: Use MAP 0210: General problem resolution.
697-123	D	697	Internal wrap test failure Action: Use MAP 0210: General problem resolution.
697-124	D	697	External wrap test failure Action: Use MAP 0210: General problem resolution.
697-125	D	221	Enhanced Error Handling failure on bus Action: Use MAP 0210: General problem resolution.
697-126	D	221	Enhanced Error Handling failure on EADS chip Action: Use MAP 0210: General problem resolution.
697-127	D	697	Enhanced Error Handling failure on adapter Action: Use MAP 0210: General problem resolution.
697-1FF	D	697 software 227	EPROM checksum failed Action: Use MAP 0210: General problem resolution.
697-200	D	software 697 227	Klog error Action: Use MAP 0210: General problem resolution.
697-201	D	software 697 227	ASL error Action: Use MAP 0210: General problem resolution.
697-202	D	software 697 227	ODM Initialization error Action: Use MAP 0210: General problem resolution.
697-203	D	software 697 227	Diagnostic configuration failure. Action: Use MAP 0210: General problem resolution.
697-205	D	software 697 227	Error in diag open. Action: Use MAP 0210: General problem resolution.
697-206	D	software 697 227	Error in releasing adapter Action: Use MAP 0210: General problem resolution.
697-221	D	697 221	Hardware failure opening the adapter Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
697-222	D	697 221	Enhanced Error Handling failure opening the adapter Action: Use MAP 0210: General problem resolution.
697-223	D	697 221	Interrupt test failure Action: Use MAP 0210: General problem resolution.
697-224	D	697 221	Adapter DMA test failure Action: Use MAP 0210: General problem resolution.
697-701	G	697 221	Error Log Analysis indicates an I/O failure on the adapter. Action: Use MAP 0210: General problem resolution.
697-702	G	697	Error Log Analysis indicates an unrecovered interrupt error. Action: Use MAP 0210: General problem resolution.
698-100	D	698 software 227	Charm memory write failure. Action: Use MAP 0210: General problem resolution.
698-101	D	698 software 227	Charm memory read failure. Action: Use MAP 0210: General problem resolution.
698-102	D	698 software 227	PCI configuration register write failure. Action: Use MAP 0210: General problem resolution.
698-103	D	698 software 227	Charm software reset failure. Action: Use MAP 0210: General problem resolution.
698-104	D	698 software 227	Packet memory error Action: Use MAP 0210: General problem resolution.
698-105	D	698 software 227	Control memory failure. Action: Use MAP 0210: General problem resolution.
698-106	D	698	Link-R detected bad parity. Action: Use MAP 0210: General problem resolution.
698-107	D	698	Suni detected bad parity. Action: Use MAP 0210: General problem resolution.
698-108	D	698	Suni initialization failure. Action: Use MAP 0210: General problem resolution.
698-109	D	Wrap Plug 698	Loss of light detected in Link test. Action: Check wrap plug installation. Action: Use MAP 0210: General problem resolution.
698-10B	D	Wrap Plug 698	External Loopback failed Action: Check wrap plug installation. Action: Use MAP 0210: General problem resolution.
698-10C	D	698 software 227	Internal Loopback failed. Action: Use MAP 0210: General problem resolution.
698-10D	D	698 227 software	DMS failed. Action: Use MAP 0210: General problem resolution.
698-121	D	698	Adapter memory test failure. Action: Use MAP 0210: General problem resolution.

**60B-xxx through 6C9-600**

<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
698-122	D	698	Adapter checksum failure. Action: Use MAP 0210: General problem resolution.
698-123	D	698	Internal wrap test failure. Action: Use MAP 0210: General problem resolution.
698-124	D	698	External wrap test failure. Action: Use MAP 0210: General problem resolution.
698-125	D	221	Enhanced Error Handling failure on bus. Action: Use MAP 0210: General problem resolution.
698-126	D	221	Enhanced Error Handling failure on EADS chip. Action: Use MAP 0210: General problem resolution.
698-127	D	698	Enhanced Error Handling failure on adapter. Action: Use MAP 0210: General problem resolution.
698-1FF	D	698 software 227	EPROM checksum failed. Action: Use MAP 0210: General problem resolution.
698-200	D	software 698 227	Klog error. Action: Use MAP 0210: General problem resolution.
698-201	D	software 698 227	ASL error. Action: Use MAP 0210: General problem resolution.
698-202	D	software 698 227	ODM Initialization error. Action: Use MAP 0210: General problem resolution.
698-203	D	software 698 227	Diagnostic configuration failure. Action: Use MAP 0210: General problem resolution.
698-205	D	software 698 227	Error in diag open. Action: Use MAP 0210: General problem resolution.
698-206	D	software 698 227	Error in releasing adapter. Action: Use MAP 0210: General problem resolution.
698-221	D	698 221	Hardware failure opening the adapter. Action: Use MAP 0210: General problem resolution.
698-222	D	698 221	Enhanced Error Handling failure opening the adapter. Action: Use MAP 0210: General problem resolution.
698-223	D	698 221	Interrupt test failure. Action: Use MAP 0210: General problem resolution.
698-224	D	698 221	Adapter DMA test failure. Action: Use MAP 0210: General problem resolution.
698-701	G	698 221	Error Log Analysis indicates an I/O failure on the adapter. Action: Use MAP 0210: General problem resolution.
698-702	G	698	Error Log Analysis indicates an unrecovered interrupt error. Action: Use MAP 0210: General problem resolution.
699-100	D	699	An error was found on the adapter Action: Use MAP 0210: General problem resolution.



Service Request Number	SRN Src.	Failing Function Codes	Description and Action
699-110	G	699	Error Log analysis indicates a hardware error. Action: Use MAP 0210: General problem resolution.
699-120	D	699	Adapter hardware has caused a software failure. Action: Use MAP 0210: General problem resolution.
69b-101	D	69b	EPROM test failure. Action: Use MAP 0210: General problem resolution.
69b-102	D	69b	Adapter SDRAM failure. Action: Use MAP 0210: General problem resolution.
69b-103	D	69b	Adapter checksum failure. Action: Use MAP 0210: General problem resolution.
69b-104	D	69b	Adapter memory test failure. Action: Use MAP 0210: General problem resolution.
69b-105	D	69b	Adapter buffer test failure. Action: Use MAP 0210: General problem resolution.
69b-106	D	69b	Adapter cache test failure. Action: Use MAP 0210: General problem resolution.
69b-107	D	69b	Internal loopback test failure. Action: Use MAP 0210: General problem resolution.
69b-108	D	69b	External wrap test failure. Action: Use MAP 0210: General problem resolution.
69b-109	D	221	Enhanced Error Handling failure on bus. Action: Use MAP 0210: General problem resolution.
69b-110	D	221	Enhanced Error Handling failure on Eads chip. Action: Use MAP 0210: General problem resolution.
69b-111	D	69b	Enhanced Error Handling failure on adapter. Action: Use MAP 0210: General problem resolution.
69b-201	D	69b 221	Hardware failure opening adapter. Action: Use MAP 0210: General problem resolution.
69b-202	D	69b 221	Interrupt test failure. Action: Use MAP 0210: General problem resolution.
69b-203	D	69b 221	Adapter DMA test failure. Action: Use MAP 0210: General problem resolution.
69b-204	D	69b 221	Enhanced error handling failure opening the adapter. Action: Use MAP 0210: General problem resolution.
69b-701	G	69b	Error Log Analysis indicates an I/O failure on the adapter. Action: Use MAP 0210: General problem resolution.
69d-101	D	69d	EPROM test failure. Action: Use MAP 0210: General problem resolution.
69d-102	D	69d	Adapter SDRAM failure. Action: Use MAP 0210: General problem resolution.
69d-103	D	69d	Adapter checksum failure. Action: Use MAP 0210: General problem resolution.
69d-104	D	69d	Adapter memory test failure. Action: Use MAP 0210: General problem resolution.
69d-105	D	69d	Adapter buffer test failure. Action: Use MAP 0210: General problem resolution.

## 60B-xxx through 6C9-600

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
69d-106	D	69d	Adapter cache test failure. Action: Use MAP 0210: General problem resolution.
69d-107	D	69d	Internal loopback test failure. Action: Use MAP 0210: General problem resolution.
69d-108	D	69d	External wrap test failure. Action: Use MAP 0210: General problem resolution.
69d-109	D	221	Enhanced Error Handling failure on bus. Action: Use MAP 0210: General problem resolution.
69d-110	D	221	Enhanced Error Handling failure on Eads chip. Action: Use MAP 0210: General problem resolution.
69d-111	D	69d	Enhanced Error Handling failure on adapter. Action: Use MAP 0210: General problem resolution.
69d-201	D	69d 221	Hardware failure opening adapter. Action: Use MAP 0210: General problem resolution.
69d-202	D	69d 221	Interrupt test failure. Action: Use MAP 0210: General problem resolution.
69d-203	D	69d 221	Adapter DMA test failure. Action: Use MAP 0210: General problem resolution.
69d-204	D	69d 221	Enhanced error handling failure opening the adapter. Action: Use MAP 0210: General problem resolution.
69d-701	G	69d	Error Log Analysis indicates an I/O failure on the adapter. Action: Use MAP 0210: General problem resolution.
6C9-100	D	B88	Unable to configure the parent device. Action: Use MAP 0210: General problem resolution.
6C9-101	D	6C9	Unable to open the device. Action: Use MAP 0210: General problem resolution.
6C9-102	D	6C9	SCSI command <b>Reserve</b> failed. Action: Use MAP 0210: General problem resolution.
6C9-103	D	6C9	SCSI command <b>Inquiry</b> has failed. Unable to get Additional Vital Product Data. Action: Use MAP 0210: General problem resolution.
6C9-104	D	6C9	SCSI command <b>Mode Sense</b> has failed. Action: Use MAP 0210: General problem resolution.
6C9-105	D	6C9	SCSI command <b>Mode Select</b> has failed. Action: Use MAP 0210: General problem resolution.
6C9-106	D	6C9	SCSI command <b>Allow Media Removal</b> has failed. Action: Use MAP 0210: General problem resolution.
6C9-107	D	6C9	SCSI command <b>Prevent Media Removal</b> has failed. Action: Use MAP 0210: General problem resolution.
6C9-108	D	6C9	SCSI command <b>Start Stop Unit</b> has failed. Action: Use MAP 0210: General problem resolution.
6C9-109	D	6C9	SCSI command <b>Test Unit Ready</b> has failed. Action: Use MAP 0210: General problem resolution.
6C9-10A	D	6C9	SCSI command <b>Send Diagnostic</b> has failed. Action: Use MAP 0210: General problem resolution.
6C9-10E	D	6C9	SCSI command <b>Release</b> has failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
6C9-10F	D	6C9	Undetermined hardware error has occurred. Action: Use MAP 0210: General problem resolution.
6C9-200	D	6C9 B88	Unable to configure the device Action: Use MAP 0210: General problem resolution.
6C9-201	D	6C9	The <b>Read Media Test</b> has detected data miscompare. Action: 1. Run Diagnostic on this drive with another test medium. 2. MAP 0210: General problem resolution.
6C9-202	D	6C9	DVD-ROM drive has detected a media error. Action: 1. Verify that the test medium is inserted properly . 2. Run Diagnostic on this drive with another test medium. 3. Use MAP 0210: General problem resolution.
6C9-203	D	6C9 B88	A SCSI reservation conflict has occurred. Action: Use MAP 0210: General problem resolution.
6C9-300	D	6C9 B88 190	SCSI command timeout has occurred. Action: Use MAP 0210: General problem resolution.
6C9-301	D	6C9 B88 190	Unit Attention has occurred. Action: Use MAP 0210: General problem resolution.
6C9-600	G	6C9	ELA indicates an unrecoverable hardware error. 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	SRN Src.	Failing Function Codes	Description and Action
700-xxx to 707-xxx			See SCSI devices SRNs (ssss-102 to ssss-640).
709-101	D	709	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
709-111	D	709 221	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
709-112	D	709 221	Unable to determine the type of adapter from the VPD. Action: Use MAP 0210: General problem resolution.
709-113	D	709	The VPD verification test failed. Action: Use MAP 0210: General problem resolution.
709-114	D	709	The register verification test failed. Action: Use MAP 0210: General problem resolution.
709-115	D	709	The VPD verification test failed. Action: Use MAP 0210: General problem resolution.

**700-xxx through 802-67E**

<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
709-116	D	D57 709	The 128-port controller line test failed. Action: Use MAP 0210: General problem resolution.
709-117	D	684	Diagnostics: Remote Async Node test failed. Action: Use MAP 0210: General problem resolution.
709-118	D	837	Remote async node test failed. Action: Use MAP 0210: General problem resolution.
709-119	F	709	Sync line termination test failed. Action: Use MAP 0210: General problem resolution.
709-151	D	837	Could not perform because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
709-152	D	837 836	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
709-153	D	837	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
709-154	D	684 709	Diagnostics: Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
709-155	D	684 709 152	Diagnostics: The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
709-161	D	266	Could not perform because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
709-162	D	266	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
709-163	D	266	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
709-164	D	D06	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
709-171	D	259	Could not perform because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
709-172	D	259	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
709-173	D	259	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
709-174	D	263	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
709-175	D	263	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
709-181	D	261	Could not perform because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
709-182	D	261	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
709-183	D	261	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
709-251	D	709 837	Could not perform because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
709-252	D	709 837	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
709-253	D	709 837	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
709-254	D	709 684	Diagnostics: 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.
709-255	D	709 684	Diagnostics: The data wrap communications test failed while running the Remote Async Node wrap test. Action: Use MAP 0210: General problem resolution.
709-271	D	709 837	Could not perform because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
709-272	D	709 837	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
709-273	D	709 837	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
709-274	D	709 684	Diagnostics: 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.
709-275	D	709 684	Diagnostics: The data wrap communications test failed while running the Printer/Terminal cable wrap test. Action: Use MAP 0210: General problem resolution.
709-281	D	709 837	Could not perform because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
709-282	D	709 837	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
709-283	D	709 837	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
709-481	D	D56	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
709-482	D	D56	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
709-483	D	D56	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
709-901 to 709-920	D	software 709	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 709; otherwise, suspect a software problem.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
709-921	D	709 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
709-922 to 709-924	D	software 709	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 709; otherwise, suspect a software problem.
709-925	D	709 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
709-926 to 709-943	D	software 709	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 709; otherwise, suspect a software problem.
721-xxx			See SCSI devices SRNs (ssss-102 to ssss-640).
722-xxx	D	722	Unknown disk drive type is failing. Action: Use MAP 0210: General problem resolution.
723-xxx	D	723	Unknown CD-ROM type is failing. Action: Use MAP 0210: General problem resolution.
724-xxx	D	724	Unknown tape drive failure. Action: Use MAP 0210: General problem resolution.
733-110 to 733-120	D	733	The <b>Reserve</b> command failed, or the <b>Inquiry</b> command failed. Action: Use MAP 0210: General problem resolution.
733-130 to 733-135	D	733 media	The <b>Load</b> command failed, or the <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution.
733-140	D	733	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution.
733-150 to 733-169	D	733 media	The <b>Test Unit Ready</b> command failed, or the <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution.
733-170	D	733 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
733-180 to 733-185	D	733 media	The <b>Load</b> command failed, or the <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution.
733-190	D	733	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution.
733-200	D	733 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution.
733-210	D	733 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
733-220 to 733-240	D	733	140 GB 8 mm tape drive failed. Action: Use MAP 0210: General problem resolution.
733-300	D	733 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
733-310	D	B88 733 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
733-320	G	733 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
733-411 to 733-423	D	733 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.
733-511 to 733-523	D	733 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
733-611 to 733-723	D	733 B88 software	An adapter, device, or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
734-111	D	734 B88	Unable to reserve device. Action: Use MAP 0210: General problem resolution.
734-112	D	734 B88	Unable to do configuration. Action: Use MAP 0210: General problem resolution.
734-113	D	734 B88	Unable to open the device driver. Action: Use MAP 0210: General problem resolution.
734-121	D	734	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
734-122	D	734	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
734-123	D	734	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
734-125	D	734 B88	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
734-126	D	734	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
734-127	D	734	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
734-128	D	734	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
734-129	D	734	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
734-150	D	Test Disc 734	A media error was detected. Action: Use MAP 0210: General problem resolution.
734-151	D	734 B88	A command timeout was detected. Action: Use MAP 0210: General problem resolution.
734-152	D	734	A command reservation conflict was detected. Action: Use MAP 0210: General problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
734-162	D	734	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
734-171	D	734	Unable to reserve device. Action: Use MAP 0210: General problem resolution.
734-172	D	734	Unable to do configuration. Action: Use MAP 0210: General problem resolution.
734-173	D	734	Unable to open device driver. Action: Use MAP 0210: General problem resolution.
734-175	D	734	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
734-198	D	734 B88	Undefined error detected. Action: Use MAP 0210: General problem resolution.
734-199	D	734	Undefined error detected. Action: Use MAP 0210: General problem resolution.
734-211	D	734	The LED test failed. Action: Use MAP 0210: General problem resolution.
734-281	D	734	No tone during audio test. Action: Use MAP 0210: General problem resolution.
734-301	G	734	Errors found during ELA. Action: Use MAP 0210: General problem resolution.
734-302	G	734 B88	Errors found during ELA. Action: Use MAP 0210: General problem resolution.
736-101	D	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
736-102	D	736 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
736-103	D	736 821	The keyboard reset failed. Action: Use MAP 0210: General problem resolution.
736-104	D	736	Unknown keyboard. Action: Use MAP 0210: General problem resolution.
736-105	D	736 821	The keyboard light-on test failed. Action: Use MAP 0210: General problem resolution.
736-106	D	736 821	The keyboard light-off test failed. Action: Use MAP 0210: General problem resolution.
736-201	D	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
736-202	D	736 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
736-203	D	736 821	The read keyboard ID test failed. Action: Use MAP 0210: General problem resolution.
736-204	D	736	The keyboard layout ID test failed. Action: Use MAP 0210: General problem resolution.
736-205	D	736 821	The keyboard echo test failed. Action: Use MAP 0210: General problem resolution.
736-206	D	736 821	The select scan code set test failed. Action: Use MAP 0210: General problem resolution.



Service Request Number	SRN Src.	Failing Function Codes	Description and Action
736-301	D	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
736-302	D	736 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
736-303	D	736	An error occurred in turning on the lamps. Action: Use MAP 0210: General problem resolution.
736-304	D	736	An error occurred in turning off the lamps. Action: Use MAP 0210: General problem resolution.
736-401	D	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
736-402	D	736 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
736-403	D	736	Unable to recognize the keyboard. Action: Use MAP 0210: General problem resolution.
736-404	D	736 821	The keyboard is failing. Action: Use MAP 0210: General problem resolution.
736-701	D	736 821	Error configuring the device. Action: Use MAP 0210: General problem resolution.
736-901	G	821	The error log analysis indicates an adapter failure. Action: Use MAP 0210: General problem resolution.
736-902	G	736 821	The error log analysis indicates a device failure. Action: Use MAP 0210: General problem resolution.
736-903	G	736 821	The error log analysis indicates an unknown failure. Action: Use MAP 0210: General problem resolution.
741-xxx			See SCSI devices SRNs ( <i>ssss-102 to ssss-640</i> ).
742-101	D	742	Configuration register test failed. Action: Use MAP 0210: General problem resolution
742-102	D	742	I/O register test failed. Action: Use MAP 0210: General problem resolution
742-104	D	742	Internal loopback test failed. Action: Use MAP 0210: General problem resolution
742-105	D	742	Internal loopback test failed. Action: Use MAP 0210: General problem resolution
742-106	D	742	External loopback test failed. Action: Use MAP 0210: General problem resolution
742-121	D	D59	Configuration register test failed. Action: Use MAP 0210: General problem resolution
742-122	D	D59	I/O register test failed. Action: Use MAP 0210: General problem resolution
742-124	D	D59	Internal loopback test failed. Action: Use MAP 0210: General problem resolution
742-125	D	D59	Internal loopback test failed. Action: Use MAP 0210: General problem resolution
742-126	D	D59	External loopback test failed. Action: Use MAP 0210: General problem resolution

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<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
742-141	D	D60	Configuration register test failed. Action: Use MAP 0210: General problem resolution
742-142	D	D60	I/O register test failed. Action: Use MAP 0210: General problem resolution
742-144	D	D60	Internal loopback test failed. Action: Use MAP 0210: General problem resolution
742-145	D	D60	Internal loopback test failed. Action: Use MAP 0210: General problem resolution
742-160	D	B08	10Base-T transceiver test failed. Action: Use MAP 0210: General problem resolution
742-161	D	B09	10Base-2 transceiver test failed. Action: Use MAP 0210: General problem resolution
742-203	D	742 software	Device configuration failed. Action: Use MAP 0210: General problem resolution
742-223	D	D59 software	Device configuration failed. Action: Use MAP 0210: General problem resolution
742-224	D	B08 D59	10 Base-T transceiver test failed. Action: Use MAP 0210: General problem resolution
742-225	D	B09 D59	10 Base-2 transceiver test failed. Action: Use MAP 0210: General problem resolution
742-243	D	D60 software	Device configuration failed. Action: Use MAP 0210: General problem resolution
742-700	G	742 software	Error log analysis indicates a hardware problem. Action: Use MAP 0210: General problem resolution
742-720	G	D59 software	Error log analysis indicates a hardware problem. Action: Use MAP 0210: General problem resolution
742-740	G	D60 software	Error log analysis indicates a hardware problem. Action: Use MAP 0210: General problem resolution
745-100	D	media 745	Recovered error. Action: No action required.
745-200	D	media 745	Drive Not Ready. Action: Install media, refer to the tape autoloader service information.
745-300 to 745-350	D	media 745	4-mm Tape Auto Loader problem. Action: Replace media, clean drive, refer to the tape autoloader service information.
745-400	D	745 magazine media	General Hardware Failure. Action: Replace media, clean drive, refer to the tape autoloader service information.
745-410 to 745-435	D	745 media	Internal Hardware Failure Action: Replace drive, refer to the tape autoloader service information.
745-440	D	745 SCSI Adapter	SCSI Hardware Failure. Action: Replace drive, refer to the tape autoloader service information.
745-441 to 745-443	D	745 media	4-mm Tape Auto Loader problem. Action: Replace drive, refer to the tape autoloader service information.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
745-444	D	745 environment media	Humidity too High Action: Lower humidity, replace media, refer to the tape autoloader service information.
745-445	D	clean media drive	Drive Requires Cleaning Action: Clean drive, replace media, refer to the tape autoloader service information.
745-460 to 745-465	D	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	D	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	D	745 magazine media	Drawer Open/Close Failure Action: Check magazine and media, refer to the tape autoloader service information.
745-500	D	745 system	Illegal request to drive Action: Software conflict, refer to the tape autoloader service information.
745-600	D	745 system	Unit Attention Action: Software conflict, media changed, refer to the tape autoloader service information.
745-700	D	745 media	Not Writeable Action: Check media for write-protect, refer to the tape autoloader service information.
745-800	D	745 media	Blank Media Action: Check media, refer to the tape autoloader service information.
745-B00	D	745 SCSI Adapter	SCSI Interface Failure Action: Check SCSI interface, refer to the tape autoloader service information.
745-D00	D	745 media	Tape Full Action: Check replace media, refer to the tape autoloader service information.
746-101	D	221	Enhanced error handling failure on the bus. Action: Use MAP 0210: General problem resolution
746-102	D	293	Enhanced error handling failure on a PCI-PCI Bridge. Action: Use MAP 0210: General problem resolution
746-103	D	746 221	Enhanced error handling failure on the adapter. Action: Use MAP 0210: General problem resolution
746-212	D	746	FIFO empty bit set. Action: Use MAP 0210: General problem resolution
746-213	D	746	FIFO empty bit clear. Action: Use MAP 0210: General problem resolution
746-214	D	746	FIFO full bit set. Action: Use MAP 0210: General problem resolution
746-215	D	746	FIFO full bit clear. Action: Use MAP 0210: General problem resolution

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<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
746-216	D	746	FIFO data miscompare. Action: Use MAP 0210: General problem resolution
746-217	D	746	SCSI FIFO data miscompare. Action: Use MAP 0210: General problem resolution
746-218	D	746	SCSI FIFO underflow. Action: Use MAP 0210: General problem resolution
746-219	D		SCSI parity error. Action: Use MAP 0050: SCSI bus problems
746-220	D	746	SCSI FIFO flags error. Action: Use MAP 0210: General problem resolution
746-221	D	746 221	Miscompare during the write/read of the configuration register. Action: Use MAP 0210: General problem resolution
746-222	D	746	Error during the write/read of the memory register. Action: Use MAP 0210: General problem resolution
746-223	D	746	Miscompare during the write/read of the memory I/O register. Action: Use MAP 0050: SCSI bus problems
746-224	D	746 221	SCSI configuration register read or write error. Action: Use MAP 0210: General problem resolution
746-225	D	746	Adapter POST failed. Action: Use MAP 0210: General problem resolution
746-226	D		SCSI wrap or PTC failure. Action: Use MAP 0050: SCSI bus problems
746-227	D	746 221	SCSI adapter test failure. Action: Use MAP 0210: General problem resolution
746-230	D		Arbitration test failed. Action: Use MAP 0050: SCSI bus problems
746-231	D		Function could not complete. Action: Use MAP 0050: SCSI bus problems
746-232	D		SCSI bus data miscompare. Action: Use MAP 0050: SCSI bus problems
746-240	D		No terminal power. Action: Use MAP 0050: SCSI bus problems
746-242	D		SCSI bus error. Action: Use MAP 0050: SCSI bus problems
746-301	D	746 221	The parent device open failed. Action: Use MAP 0210: General problem resolution
746-701	G	746	Error log analysis indicates a PCI SCSI adapter failure. Action: Use MAP 0210: General problem resolution
746-801	G		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	SRN Src.	Failing Function Codes	Description and Action
746-802	G		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	G		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	D	221	Enhanced error handling failure on the bus. Action: Use MAP 0210: General problem resolution
747-102	D	293	Enhanced error handling failure on a PCI-PCI Bridge. Action: Use MAP 0210: General problem resolution
747-103	D	747 221	Enhanced error handling failure on the adapter. Action: Use MAP 0210: General problem resolution
747-212	D	747	FIFO empty bit set. Action: Use MAP 0210: General problem resolution
747-213	D	747	FIFO empty bit clear. Action: Use MAP 0210: General problem resolution
747-214	D	747	FIFO full bit set. Action: Use MAP 0210: General problem resolution
747-215	D	747	FIFO full bit clear. Action: Use MAP 0210: General problem resolution
747-216	D	747	FIFO data miscompare. Action: Use MAP 0210: General problem resolution
747-217	D	747	SCSI FIFO data miscompare. Action: Use MAP 0210: General problem resolution
747-218	D	747	SCSI FIFO underflow. Action: Use MAP 0210: General problem resolution
747-219	D		SCSI parity error. Action: Use MAP 0050: SCSI bus problems
747-220	D	747	SCSI FIFO flags error. Action: Use MAP 0210: General problem resolution
747-221	D	747 221	Miscompare during the write/read of the configuration register. Action: Use MAP 0210: General problem resolution
747-222	D	747	Error during the write/read of the memory register. Action: Use MAP 0210: General problem resolution
747-223	D	747	Miscompare during the write/read of the memory I/O register. Action: Use MAP 0050: SCSI bus problems
747-224	D	747 221	SCSI configuration register read or write error. Action: Use MAP 0210: General problem resolution
747-225	D	747	Adapter POST failed. Action: Use MAP 0210: General problem resolution
747-226	D		SCSI wrap or PTC failure. Action: Use MAP 0050: SCSI bus problems

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<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
747-227	D	747 221	SCSI adapter test failure. Action: Use MAP 0210: General problem resolution
747-230	D		Arbitration test failed. Action: Use MAP 0050: SCSI bus problems
747-231	D		Function could not complete. Action: Use MAP 0050: SCSI bus problems
747-232	D		SCSI bus data miscompare. Action: Use MAP 0050: SCSI bus problems
747-240	D		No terminal power. Action: Use MAP 0050: SCSI bus problems
747-242	D		SCSI bus error. Action: Use MAP 0050: SCSI bus problems
747-301	D	747 221	The parent device open failed. Action: Use MAP 0210: General problem resolution
747-701	G	747	Error log analysis indicates a PCI SCSI adapter failure. Action: Use MAP 0210: General problem resolution
747-801	G		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	G		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	G		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	D	749	7331 Model 205 Tape Library. Refer to service documentation for this device.
750-100	D	750	The adapter open test failed. Action: Use MAP 0210: General problem resolution
750-200	D	750 221	Config register test failed. Action: Use MAP 0210: General problem resolution
750-201	D	750 221	I/O register test failed. Action: Use MAP 0210: General problem resolution
750-202	D	750 221	Adapter self-test failed. Action: Use MAP 0210: General problem resolution
750-300	D	256 750 221	The connect test failed. Action: Use MAP 0210: General problem resolution
750-301	D	256 750 221	Token-ring internal wrap test failure. Action: Use MAP 0210: General problem resolution

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
750-302	D	256 750 221	Token-ring external wrap failure. Action: Use MAP 0210: General problem resolution
750-303	D	256 750 221	Token-ring initialization test failure. Action: Use MAP 0210: General problem resolution
750-400	D	240 256 750 221	The connect test failed. Action: Use MAP 0210: General problem resolution
750-401	D	240 256 750 221	Token-ring internal wrap test failure. Action: Use MAP 0210: General problem resolution
750-402	D	240 256 750 221	Token-ring external wrap test failure. Action: Use MAP 0210: General problem resolution
750-403	D	240 256 750 221	Token-ring initialization test failure. Action: Use MAP 0210: General problem resolution
750-700	G	750 221	Error Log analysis indicated a hardware failure. Action: Use MAP 0210: General problem resolution
751-101	D	751 227	The PCI wrap test failed. Action: Use MAP 0270: SCSI RAID problem resolution and verification
751-102	D	751	The POST indicates an adapter failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification
751-103	D	751	The POST indicates an adapter channel failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
751-104	D	190	The POST indicates a defective cable. Action: Use MAP 0210: General problem resolution
751-105	D	B3A	The POST indicates a defective backplane or external enclosure. Action: Use MAP 0210: General problem resolution
751-106	D	722	The POST indicates a disk failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification
751-108	D	221	Enhanced error handling failure on the bus. Action: Use MAP 0210: General problem resolution
751-109	D	751	The NVRAM test indicates an adapter failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification
751-110	D	722	The disk reported a Predictive Failure Analysis error (PFA). Action: Use MAP 0270: SCSI RAID problem resolution and verification

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
751-111	D	722	The disk drive has been failed by the adapter. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
751-112	G	722	ELA indicates that the disk reported a hard data error. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
751-113	G	722	ELA indicates that the disk reported a hard equipment error. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
751-114	G	E29	ELA indicates a cache failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
751-115	G	E30	ELA indicates that the cache battery is either low on power or has failed. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
751-116	D	751	Failed to disable data scrub. Action: Use MAP 0210: General problem resolution
751-117	D	E29	POST indicates cache failure Action: Use MAP 0210: General problem resolution
751-118	D	E29	NVRAM test indicates cache failure. Action: Use MAP 0210: General problem resolution
751-119	D	E29	NVRAM test indicates that write cache is missing. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
751-120	D	E29	NVRAM test indicates that cache size is invalid. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
751-121	D	E30	NVRAM test indicates that the cache battery is low on power. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
751-122	D	E30	NVRAM test indicates cache battery failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
751-123	D	751	ELA indicates an adapter failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
751-124	D	221	Enhanced error handling failure on PCI-PCI Bridge. Action: Use MAP 0210: General problem resolution
751-125	D	751 221	Enhanced error handling failure on adapter. Action: Use MAP 0210: General problem resolution
751-400	F	751 190 B3A 722	POST indicates a channel failure. Action: Use MAP 0270: SCSI RAID problem resolution and verification.
751-701	G	751 221	Error Log Analysis indicates an EEH error. Action: Use MAP 0210: General problem resolution
757-110	D	757	The <b>Reserve</b> command failed. Action: Use MAP 0210: General problem resolution



Service Request Number	SRN Src.	Failing Function Codes	Description and Action
757-120	D	757	The <b>Inquiry</b> command failed. Action: Use MAP 0210: General problem resolution
757-130	D	757 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution
757-135	D	757 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution
757-140	D	757	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution
757-150	D	757 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution
757-160	D	757 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution
757-169	D	757 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution
757-170	D	757 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution
757-180	D	757 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution
757-185	D	757 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution
757-190	D	757	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution
757-200	D	757 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution
757-210	D	757 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution
757-220	D	757	The <b>Release</b> command failed. Action: Use MAP 0210: General problem resolution
757-230	D	757	The <b>Request Sense</b> command failed. Action: Use MAP 0210: General problem resolution
757-240	D	757	The <b>Openx</b> command failed. Action: Use MAP 0210: General problem resolution
757-300	D	757 software	The device configuration failed. Action: Use MAP 0210: General problem resolution
757-310	D	B88 757 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution
757-320	D	757 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution
757-411 to 757-423	D	757 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution
757-511 to 757-523	D	757 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
757-611 to 757-623	D	757 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution
757-711 to 757-723	D	757 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution
759-xxx			See "SCSI Devices SRNs (ssss-102 to ssss-640)" on page 552. Action: Use MAP 0210: General problem resolution
763-1xx	D	763 software 221	Problem detected with a device or device data corrupted. <b>Note:</b> You may need to reinstall <b>ssp.css</b> software.
763-200 to 763-299	D	ext clock 763 wrap plug	Problem detected with the external clock (SP switch). <b>Notes:</b> 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	D	763	Problem detected with the internal clock. Action: Use MAP 0210: General problem resolution
763-3xx	D	763 221	Problem detected with the POS registers. Action: Use MAP 0210: General problem resolution
763-4xx	D	763 software	TBIC test failed. Action: Use MAP 0210: General problem resolution
763-5xx	D	763	SRAM test failed. Action: Use MAP 0210: General problem resolution
763-6xx	D	763	Microprocessor test failed. Action: Use MAP 0210: General problem resolution
763-7xx	D	763	Interrupt test failed. Action: Use MAP 0210: General problem resolution
763-8xx	D	763	FIFO test failed. Action: Use MAP 0210: General problem resolution
763-9xx	D	763 221 Switch-cable	DMA engine test failed. <b>Note:</b> Refer to your <i>SP Maintenance Information</i> for the switch cable FRU part number.
763-Ax3	D	763 terminator	Card wrap test failed. <b>Note:</b> The terminator FRU part number is listed under the 763 FFC. Action: Use MAP 0210: General problem resolution
763-Ax4	D	Switch-cable wrap plug	Card wrap test failed. <b>Notes:</b> 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	D	763	Bad adapter card. (except for SRN 763-282) Action: Replace the SP Switch MX Adapter.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
764-1xx	D	764 software 221	Problem detected with a device or device data corrupted. <b>Note:</b> You may need to reinstall <b>ssp.css</b> software.
764-200 to 764-299	D	ext clock 764 wrap plug	Problem detected with the external clock (SP switch). <b>Notes:</b> 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.
764-2A0 to 764-2A9	D	764	Problem detected with the internal clock. Action: Use MAP 0210: General problem resolution
764-3xx	D	764 221	Problem detected with the POS registers. Action: Use MAP 0210: General problem resolution
764-4xx	D	764 software	TBIC test failed. Action: Use MAP 0210: General problem resolution
764-5xx	D	764	SRAM test failed. Action: Use MAP 0210: General problem resolution
764-6xx	D	764	Microprocessor test failed. Action: Use MAP 0210: General problem resolution
764-7xx	D	764	Interrupt test failed. Action: Use MAP 0210: General problem resolution
764-8xx	D	764	FIFO test failed. Action: Use MAP 0210: General problem resolution
764-9xx	D	764 221 switch-cable	DMA engine test failed. <b>Note:</b> Refer to your <i>SP Maintenance Information</i> for the switch cable FRU part number.
764-Ax3	D	764 terminator	Card wrap test failed. <b>Note:</b> The terminator FRU part number is listed under the 763 FFC.
764-Ax4	D	Switch-cable wrap plug	Card wrap test failed. <b>Notes:</b> 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	D	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).
775-001	D	775 227 Monitor	"NO" to color panel. Action: Use MAP 0210: General problem resolution
775-002	D	775 Monitor	"NO" to cursor panel. Action: Use MAP 0210: General problem resolution
775-007	D	Info code	The EMC_SCROLLING_17_H_TEST failed. Action: Use MAP 0210: General problem resolution

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<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
775-009	D	Info code	The EMC_SCROLLING_21_H_TEST failed. Action: Use MAP 0210: General problem resolution
775-064	D	775 227	TRIO64V+_TIMEOUT Action: Use MAP 0210: General problem resolution
775-101	D	775 227	Color miscompare. Action: Use MAP 0210: General problem resolution
775-102	D	775 227	Clipping error. Action: Use MAP 0210: General problem resolution
775-103	D	775 227	Rectangle fill test failed. Action: Use MAP 0210: General problem resolution
775-128	D	software 775	MALLOC_ERROR Action: Use MAP 0210: General problem resolution
775-161	D	software	Loop count value in rules file is zero. Action: Use MAP 0210: General problem resolution
775-191	D	775 227	Red screen error. Action: Use MAP 0210: General problem resolution
775-193	D	775 227	Green screen error. Action: Use MAP 0210: General problem resolution
775-1FF	D	775 227	Rectangle fill test failed. Action: Use MAP 0210: General problem resolution
775-201	D	775 227	Color miscompare. Action: Use MAP 0210: General problem resolution
775-202	D	775 227	Clipping error. Action: Use MAP 0210: General problem resolution
775-203	D	775 227	Image transfer across Plane Test failed. Action: Use MAP 0210: General problem resolution
775-211	D	software	INTERNAL_ERROR_DATA_SIZE Action: Use MAP 0210: General problem resolution
775-212	D	software	INTERNAL_ERROR_NO_ACCESS Action: Use MAP 0210: General problem resolution
775-215	D	775 227	Black screen error Action: Use MAP 0210: General problem resolution
775-217	D	775 227	The 9 x 7 Cross hatch grid failed. Action: Use MAP 0210: General problem resolution
775-233	D	software	OPEN_RCM_ERROR Action: Use MAP 0210: General problem resolution
775-234	D	software	IOCTL_GSC_HANDLE_FAILED Action: Use MAP 0210: General problem resolution
775-235	D	software	AIXGSC_MAKE_GP_FAILED Action: Use MAP 0210: General problem resolution
775-236	D	software	AIXGSC_UNMAKE_GP_FAILED Action: Use MAP 0210: General problem resolution
775-237	D	software	DEVICE_BUSY_ERROR Action: Use MAP 0210: General problem resolution
775-241	D	Info code	The SCROLLING_17_H_TEST failed. Action: Use MAP 0210: General problem resolution

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
775-263	D	Info code	The EMC_SCROLLING_21_H_TEST failed Action: Use MAP 0210: General problem resolution
775-2FF	D	775 227	Image transfer across Plane Test failed. Action: Use MAP 0210: General problem resolution
775-301	D	775 227	A write of "0x00" to the palette register failed. Action: Use MAP 0210: General problem resolution
775-302	D	775 227	A write of "0x15" to the palette register failed. Action: Use MAP 0210: General problem resolution
775-303	D	775 227	A write of "0x2A" to the palette register failed. Action: Use MAP 0210: General problem resolution
775-304	D	775 227	A write of "0x3F" to the palette register failed. Action: Use MAP 0210: General problem resolution
775-305	D	775 227	The test of the palette registers failed. Action: Use MAP 0210: General problem resolution
775-3FF	D	775 227	The test of the palette registers failed. Action: Use MAP 0210: General problem resolution
775-401	D	775 227	Frame buffer base address inconsistent. Action: Use MAP 0210: General problem resolution
775-402	D	775 227	VRAM inaccessible. Action: Use MAP 0210: General problem resolution
775-403	D	775 227	Miscompare found in VRAM. Action: Use MAP 0210: General problem resolution
775-404	D	775 227	The test of the VRAM failed. Action: Use MAP 0210: General problem resolution
775-447	D	775 227	Green screen error. Action: Use MAP 0210: General problem resolution
775-449	D	775 227	Blue Screen error. Action: Use MAP 0210: General problem resolution
775-471	D	775 227	The 9 x 7 Cross hatch grid failed. Action: Use MAP 0210: General problem resolution
775-473	D	775 227	The 11 x 9 Cross hatch grid failed. Action: Use MAP 0210: General problem resolution
775-495	D	Info code	The SCROLLING_17_H_TEST failed. Action: Use MAP 0210: General problem resolution
775-497	D	Info code	The SCROLLING_21_H_TEST failed. Action: Use MAP 0210: General problem resolution
775-4FF	D	775 227	The test of the VRAM failed. Action: Use MAP 0210: General problem resolution
775-501	D	775 227	Color miscompare. Action: Use MAP 0210: General problem resolution
775-502	D	775 227	Clipping error. Action: Use MAP 0210: General problem resolution
775-503	D	775 227	Direct Frame Buffer test failed. Action: Use MAP 0210: General problem resolution
775-5FF	D	775 227	Direct Frame Buffer test failed. Action: Use MAP 0210: General problem resolution

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<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
775-601	D	775 227	Video Stream Register test failed. Action: Use MAP 0210: General problem resolution
775-602	D	775 227	Video Stream hardware test failed. Action: Use MAP 0210: General problem resolution
775-6FF	D	775 227	Video Stream hardware test failed. Action: Use MAP 0210: General problem resolution
775-701	D	775 227	The 0 Degree Short Stroke Draw failed. Action: Use MAP 0210: General problem resolution
775-702	D	775 227	The 45-Degree Short Stroke Draw failed. Action: Use MAP 0210: General problem resolution
775-703	D	775 227	Blue Screen error, or 90 Degree Short Stroke Draw failed. Action: Use MAP 0210: General problem resolution
775-704	D	775 227	The 135-Degree Short Stroke Draw failed. Action: Use MAP 0210: General problem resolution
775-705	D	775 227	White screen error, or 180 Degree Short Stroke Draw failed. Action: Use MAP 0210: General problem resolution
775-706	D	775 227	The 225-Degree Short Stroke Draw failed. Action: Use MAP 0210: General problem resolution
775-707	D	775 227	The 270-Degree Short Stroke Draw failed. Action: Use MAP 0210: General problem resolution
775-708	D	775 227	The 315-Degree Short Stroke Draw failed Action: Use MAP 0210: General problem resolution
775-709	D	775 227	Short Stroke Vector Function test failed. Action: Use MAP 0210: General problem resolution
775-727	D	775 227	The 11 x 9 Cross hatch grid failed. Action: Use MAP 0210: General problem resolution
775-750	D	Info code	The SCROLLING_21_H_TEST failed. Action: Use MAP 0210: General problem resolution
775-753	D	Info code	The EMC_SCROLLING_17_H_TEST failed. Action: Use MAP 0210: General problem resolution
775-7FE	D	775 227	Short Stroke Vector Function test failed. Action: Use MAP 0210: General problem resolution
775-7FF	D	software 775 227	Bad vector detected. Action: Use MAP 0210: General problem resolution
775-801	D	775 227	Color for PatBlt thru screen failed. Action: Use MAP 0210: General problem resolution
775-802	D	775 227	Clipping for PatBlt thru screen failed. Action: Use MAP 0210: General problem resolution
775-803	D	775 227	Color for PatBlt Across screen failed. Action: Use MAP 0210: General problem resolution
775-804	D	775 227	Clipping for PatBlt Across screen failed. Action: Use MAP 0210: General problem resolution
775-805	D	775 227	Pattern Fill Across the Plane test failed. Action: Use MAP 0210: General problem resolution
775-8FF	D	775 227	Pattern Fill Across the Plane test failed. Action: Use MAP 0210: General problem resolution

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
775-901	D	775 227	Color miscompare of white boxes detected. Action: Use MAP 0210: General problem resolution
775-902	D	775 227	Clipping error of white boxes detected. Action: Use MAP 0210: General problem resolution
775-903	D	775 227	Color miscompare of color bars detected. Action: Use MAP 0210: General problem resolution
775-904	D	775 227	Clipping error of white boxes detected. Action: Use MAP 0210: General problem resolution
775-905	D	775 227	Color miscompare of white boxes detected. Action: Use MAP 0210: General problem resolution
775-906	D	775 227	Clipping error of white boxes detected. Action: Use MAP 0210: General problem resolution
775-907	D	775 227	Color miscompare of white boxes detected. Action: Use MAP 0210: General problem resolution
775-908	D	775 227	Clipping miscompare of white boxes detected. Action: Use MAP 0210: General problem resolution
775-909	D	775 227	The Area fill test (color bars) failed. Action: Use MAP 0210: General problem resolution
775-937	D	775 227	Red screen error. Action: Use MAP 0210: General problem resolution
775-959	D	775 227	White screen error. Action: Use MAP 0210: General problem resolution
775-961	D	775 227	Black screen error. Action: Use MAP 0210: General problem resolution
775-9FF	D	775 227	The Area fill test (color bars) failed. Action: Use MAP 0210: General problem resolution
775-A01	D	775 227	Color miscompare of horizontal top line. Action: Use MAP 0210: General problem resolution
775-A02	D	775 227	Clipping error of horizontal top line. Action: Use MAP 0210: General problem resolution
775-A03	D	775 227	Color miscompare of vertical right line. Action: Use MAP 0210: General problem resolution
775-A04	D	775 227	Clipping error of vertical right line. Action: Use MAP 0210: General problem resolution
775-A05	D	775 227	Color miscompare of horizontal bottom line. Action: Use MAP 0210: General problem resolution
775-A06	D	775 227	Clipping error of horizontal bottom line. Action: Use MAP 0210: General problem resolution
775-A07	D	775 227	Color miscompare of vertical left line. Action: Use MAP 0210: General problem resolution
775-A08	D	775 227	Clipping error of vertical left line. Action: Use MAP 0210: General problem resolution
775-A09	D	775 227	Color miscompare of horizontal center line. Action: Use MAP 0210: General problem resolution
775-A0A	D	775 227	Clipping error of horizontal center line. Action: Use MAP 0210: General problem resolution

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<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
775-A0B	D	775 227	Color miscompare of vertical center line. Action: Use MAP 0210: General problem resolution
775-A0C	D	775 227	Clipping error of vertical center line. Action: Use MAP 0210: General problem resolution
775-A0D	D	775 227	Reserved
775-A0F	D	775 227	Reserved
775-A10	D	775 227	Color miscompare of textured top line. Action: Use MAP 0210: General problem resolution
775-A11	D	775 227	Clipping error of textured top line. Action: Use MAP 0210: General problem resolution
775-A12	D	775 227	Line Drawing Function test failed. Action: Use MAP 0210: General problem resolution
775-AFF	D	775 227	Line Drawing Function test failed. Action: Use MAP 0210: General problem resolution
775-B01	D	775 227	Rectangle Area Color miscompare detected. Action: Use MAP 0210: General problem resolution
775-B02	D	775 227	Rectangle Area Clip error detected. Action: Use MAP 0210: General problem resolution
775-B03	D	775 227	Clipped Area Horizontal color miscompare (background line color wrong). Action: Use MAP 0210: General problem resolution
775-B04	D	775 227	Clipped Area Horizontal clip miscompare (clip of background line wrong). Action: Use MAP 0210: General problem resolution
775-B05	D	775 227	Clipped Area Vertical color miscompare (background line color wrong). Action: Use MAP 0210: General problem resolution
775-B06	D	775 227	Clipped Area Vertical clip error (clip of background line wrong). Action: Use MAP 0210: General problem resolution
775-B07	D	775 227	The clipping function test failed. Action: Use MAP 0210: General problem resolution
775-BFF	D	775 227	The clipping function test failed. Action: Use MAP 0210: General problem resolution
775-C01	D	775 227	The BIOS read failed. Action: Use MAP 0210: General problem resolution
775-C02	D	775 227	The BIOS function test failed. Action: Use MAP 0210: General problem resolution
775-CFF	D	775 227	The BIOS function test failed. Action: Use MAP 0210: General problem resolution
775-D01	D	775 227	The HW cursor function test failed. Action: Use MAP 0210: General problem resolution
775-DFE	D	775 227	The HW cursor function test failed. Action: Use MAP 0210: General problem resolution
776-101	D	D46	External Test Failure. Action: Use MAP 0210: General problem resolution



Service Request Number	SRN Src.	Failing Function Codes	Description and Action
776-102	D	240	External Test Failure. Action: Use MAP 0210: General problem resolution
776-103	D	776	I/O Test Failure. Action: Use MAP 0210: General problem resolution
776-104	D	776 221	Adapter On-card Test Failure. Action: Use MAP 0210: General problem resolution
776-105	D	776	Wrap Test Failure. Action: Use MAP 0210: General problem resolution
776-106	D	D46	Wrap Test Failure. Action: Use MAP 0210: General problem resolution
776-106	D	776	Enhanced error handling failure on bus. Action: Use MAP 0210: General problem resolution
776-107	D	776	Enhanced error handling failure on Eads chip. Action: Use MAP 0210: General problem resolution
776-108	D	776	Enhanced error handling failure on adapter. Action: Use MAP 0210: General problem resolution
776-201	D	776 221	Configuration Register Test Failure. Action: Use MAP 0210: General problem resolution
776-202	D	776 221	Wrap Test Failure. Action: Use MAP 0210: General problem resolution
776-203	D	D46 776	Wrap Test Failure. Action: Use MAP 0210: General problem resolution
776-204	D	776 221	Connect Test Failure. Action: Use MAP 0210: General problem resolution
776-205	F	D46 776	External Test Failure. <b>Action:</b> Run advanced diagnostics with wrap test for this resource to obtain correct problem isolation. Action: Use MAP 0210: General problem resolution
776-206	D	776 221	Wrap Test Failure. Action: Use MAP 0210: General problem resolution
776-301	D	D46 240 776	External Test Failure. Action: Use MAP 0210: General problem resolution
776-302	F	D46 776 221	External Test Failure. Action: Run advanced diagnostics with wrap test for this resource to obtain correct problem isolation.
776-303	F	240 D46 776	External Test Failure. Action: Run advanced diagnostics with wrap test for this resource to obtain correct problem isolation.
776-304	D	D46 776 221	Connect Wrap Test Failure. Action: Use MAP 0210: General problem resolution
776-305	D	D46 776 221	Wrap Test Failure. Action: Use MAP 0210: General problem resolution
776-306	D	D46 776 221	Wrap Test Failure. Action: Use MAP 0210: General problem resolution

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<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
776-401	F	240 D46 776 221	External Test Failure. Action: Run advanced diagnostics with wrap test for this resource to obtain correct problem isolation.
776-404	D	240 D46 776 221	Connect Test Failure. Action: Use MAP 0210: General problem resolution
776-405	D	240 D46 776 221	Wrap Test Failure. Action: Use MAP 0210: General problem resolution
776-406	D	240 D46 776 221	Wrap Test Failure. Action: Use MAP 0210: General problem resolution
776-414	F	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	F	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	F	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	G	776	ELA indicates an adapter error occurred. Action: Use MAP 0210: General problem resolution
776-702	G	776 221	ELA indicates an adapter check occurred. Action: Use MAP 0210: General problem resolution
776-703	G	776 221	ELA indicates a DMA failure occurred. Action: Use MAP 0210: General problem resolution
776-704	G	776 221	ELA indicates a PCI bus failure occurred. Action: Use MAP 0210: General problem resolution
776-705	G	776 221	ELA indicates a Programmed I/O failure occurred. Action: Use MAP 0210: General problem resolution
776-706	G	776	ELA indicates a command write failure occurred. Action: Use MAP 0210: General problem resolution
776-707	G	776	ELA indicates an internal adapter error has occurred. Action: Use MAP 0210: General problem resolution
777-101	D	777	Configuration Register Test Failure. Action: Use MAP 0210: General problem resolution
777-102	D	777	I/O Test Failure. Action: Use MAP 0210: General problem resolution
777-103	D	777	Adapter initialization test failure. Action: Use MAP 0210: General problem resolution

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
777-104	D	777	Internal wrap test failure. Action: Use MAP 0210: General problem resolution
777-105	D	777	External wrap (10 Mbps) test failure. Action: Use MAP 0210: General problem resolution
777-106	D	777	External wrap (100 Mbps) test failure. Action: Use MAP 0210: General problem resolution
777-107	D	221	Enhanced error handling failure on bus. Action: Use MAP 0210: General problem resolution
777-108	D	221	Enhanced error handling logic failure. Action: Use MAP 0210: General problem resolution
777-110	D	777	Enhanced error handling failure on adapter. Action: Use MAP 0210: General problem resolution
777-201	D	777 221	Configuration Register Test Failure. Action: Use MAP 0210: General problem resolution
777-202	D	777 221	I/O Test Failure. Action: Use MAP 0210: General problem resolution
777-203	D	777 221	Adapter initialization test failure. Action: Use MAP 0210: General problem resolution
777-204	D	777 221	Internal wrap test failure. Action: Use MAP 0210: General problem resolution
777-205	D	777 221	Internal wrap test failure. Action: Use MAP 0210: General problem resolution
777-206	D	777 221	External wrap (10 Mbps) test failure. Action: Use MAP 0210: General problem resolution
777-207	D	777 221	Internal wrap test failure. Action: Use MAP 0210: General problem resolution
777-208	D	777 221	External wrap (100 Mbps) test failure. Action: Use MAP 0210: General problem resolution
777-701	G	777 221	Error log analysis indicates that the adapter is not responding to initialization commands. Action: Use MAP 0210: General problem resolution
777-702	G	777 221	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
777-703	G	777 221	Error log analysis indicates that the adapter has been shut down due to an unrecoverable error. Action: Use MAP 0210: General problem resolution
777-704	G	777 221	Error Log Analysis indicates a problem with the EEPROM on the adapter Action: Use MAP 0210: General problem resolution
777-707	G	777 221	Error Log Analysis indicates that this adapter has failed to initialize due to EEH errors. Action: Use MAP 0210: General problem resolution
778-002	D	software 778	Software error. Action: Use MAP 0210: General problem resolution
778-004	D	software 778	Software error. Action: Use MAP 0210: General problem resolution

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<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
778-009	D	software 778	Software error. Action: Use MAP 0210: General problem resolution
778-011	D	software 778	Software error. Action: Use MAP 0210: General problem resolution
778-017	D	software 778	Software error. Action: Use MAP 0210: General problem resolution
778-019	D	778 software	Adapter failure. Action: Use MAP 0210: General problem resolution
778-030	D	778 221	Adapter failure. Action: Use MAP 0210: General problem resolution
778-032	D	software 778	Software error. Action: Use MAP 0210: General problem resolution
778-033	D	software 778	Software error. Action: Use MAP 0210: General problem resolution
778-035	D	778 software	Adapter failure. Action: Use MAP 0210: General problem resolution
778-036 to 778-072	D	software 778	Software error. Action: Use MAP 0210: General problem resolution
778-073	D	778 221	Adapter failure. Action: Use MAP 0210: General problem resolution
778-075	D	software 778	Software error. Action: Use MAP 0210: General problem resolution
778-076	D	778 software	Software error. Action: Use MAP 0210: General problem resolution
778-301 to 778-D02	D	778 221	Adapter failure. Action: Use MAP 0210: General problem resolution
778-E01	D	software 778	Software error. Action: Use MAP 0210: General problem resolution
778-E02 to 778-1401	D	778 221	Adapter failure. Action: Use MAP 0210: General problem resolution
778-1402	D	software 778	Software error. Action: Use MAP 0210: General problem resolution
778-1403 to 778-1405	D	778 221	Adapter failure. Action: Use MAP 0210: General problem resolution
778-1500	D	778 software	Adapter failure. Action: Use MAP 0210: General problem resolution
778-1600 to 778-1604	D	778 902	Adapter failure. Action: Use MAP 0210: General problem resolution
778-2501 to 778-2508	D	778 221	Adapter error. Action: Use MAP 0210: General problem resolution

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
778-2509 to 778-2511	D	software 778	Software error. Action: Use MAP 0210: General problem resolution
778-2601 to 778-2602	D	778 221	Adapter error. Action: Use MAP 0210: General problem resolution
778-2603	D	software 778	Software error. Action: Use MAP 0210: General problem resolution
77B-101	D	77B	Configuration Register Test Failure. Action: Use MAP 0210: General problem resolution
77B-102	D	77B	I/O Test Failure. Action: Use MAP 0210: General problem resolution
77B-103	D	77B	Adapter initialization test failure. Action: Use MAP 0210: General problem resolution
77B-104	D	77B	Internal wrap test failure. Action: Use MAP 0210: General problem resolution
77B-105	D	77B	External wrap (10 Mbps) test failure. Action: Use MAP 0210: General problem resolution
77B-106	D	77B	External wrap (100 Mbps) test failure. Action: Use MAP 0210: General problem resolution
77B-110	D	77B	Enhanced error handling failure. Action: Use MAP 0210: General problem resolution
77B-701	G	77B	Error log analysis indicates that the adapter is not responding to initialization commands. Action: Use MAP 0210: General problem resolution
77B-702	G	77B	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
77B-703	G	77B	Error log analysis indicates that the adapter has been shut down due to an unrecoverable error. Action: Use MAP 0210: General problem resolution
77B-704	G	77B	Error Log Analysis indicates a problem with the EEPROM on the adapter Action: Use MAP 0210: General problem resolution
77B-705	G	77B	Error Log Analysis indicates a non-critical problem with the VPD and the EEPROM on the adapter Action: Schedule deferred maintenance.
77C-xxx			See SCSI devices SRNs (ssss-102 to ssss-640).
780-101	D	780 227	Adapter logic test failure. Action: Use MAP 0210: General problem resolution
780-102	D	780	Adapter logic test failure. Action: Use MAP 0210: General problem resolution
780-109	D	780	Adapter channel Input/Output test failure. Action: Use MAP 0210: General problem resolution
780-113	D	780	Adapter Serial Communication Controller (SCC) test failure. Action: Use MAP 0210: General problem resolution
780-114	D	780 227	Adapter logic test failure. Action: Use MAP 0210: General problem resolution

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<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
780-120	D	780 227 software	Adapter could not be detected or configured. Action: Use MAP 0210: General problem resolution
780-140	D	271 780	An error was found with the X.21 interface adapter cable. Action: Use MAP 0210: General problem resolution
780-150	D	272 780	An error was found with the X.24 interface adapter cable. Action: Use MAP 0210: General problem resolution
780-160	D	273 780	An error was found with the X.35 interface adapter cable. Action: Use MAP 0210: General problem resolution
780-170	D	780	The adapter hardware failed. Action: Use MAP 0210: General problem resolution
780-180	D	780	The adapter hardware failed. Action: Use MAP 0210: General problem resolution
780-190	D	780	The adapter hardware failed. Action: Use MAP 0210: General problem resolution
780-210	D	780 185	An error was found on the adapter. Action: Use MAP 0210: General problem resolution
780-211	D	780 227	The adapter card POST test failed. Action: Use MAP 0210: General problem resolution
780-230	D	780	The adapter card hardware failed. Action: Use MAP 0210: General problem resolution
780-232	D	780 227	The adapter card hardware failed. Action: Use MAP 0210: General problem resolution
780-240	D	780	The adapter card hardware failed. Action: Use MAP 0210: General problem resolution
780-250	D	185 780	An error was found on the adapter. Action: Use MAP 0210: General problem resolution
780-260	D	780	The adapter card hardware failed. Action: Use MAP 0210: General problem resolution
780-270	D	780	The adapter card hardware failed. Action: Use MAP 0210: General problem resolution
780-280	D	780	The adapter card hardware failed. Action: Use MAP 0210: General problem resolution
780-290	D	780	The adapter card hardware failed. Action: Use MAP 0210: General problem resolution
780-300	G	780	An adapter error was found during error log analysis. Action: Use MAP 0210: General problem resolution
780-310	G	780 185	An adapter error was found during error log analysis. Action: Use MAP 0210: General problem resolution
780-320	G	780 227	An adapter error was found during error log analysis. Action: Use MAP 0210: General problem resolution
780-330	G	780 227	Error log analysis indicates a hardware problem. Action: Use MAP 0210: General problem resolution
780-400	D	780 227	A software error was caused by a hardware failure. Action: Use MAP 0210: General problem resolution

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
780-700	D	780 227 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution
780-720	D	780	Cable wrap test failed. Action: Use MAP 0210: General problem resolution
780-721	D	780	Port wrap test failed. Action: Use MAP 0210: General problem resolution
780-722	D	780	Cable wrap test failed. Action: Use MAP 0210: General problem resolution
781-101	D	781 227	ROS POST adapter software initialization error. Action: Use MAP 0210: General problem resolution
781-102	D	781	Extended DRAM SIP test failed. Action: Use MAP 0210: General problem resolution
781-103	D	781	ROS checksum test failed. Action: Use MAP 0210: General problem resolution
781-104	D	781 227	Adapter download diagnostics failed Action: Use MAP 0210: General problem resolution
781-105	D	781 227	Memory size test failed. Action: Use MAP 0210: General problem resolution
781-106	D	781 227	Interface ID test failed. Action: Use MAP 0210: General problem resolution
781-107	D	781 227	EIB ID test failed. Action: Use MAP 0210: General problem resolution
781-108	D	781 227	ROS version test failed. Action: Use MAP 0210: General problem resolution
781-109	D	781	DUSCC register test failed. Action: Use MAP 0210: General problem resolution
781-111	D	781	DMA register test failed. Action: Use MAP 0210: General problem resolution
781-112	D	781	X.21 PAL test failed. Action: Use MAP 0210: General problem resolution
781-113	D	781	External wrap test failed. Action: Use MAP 0210: General problem resolution
781-114	D	781 227	Twin tail logic test failed. Action: Use MAP 0210: General problem resolution
781-116	D	254	The RS232 cable wrap test failed. Action: Use MAP 0210: General problem resolution
781-117	D	253	The RS422A cable wrap test failed. Action: Use MAP 0210: General problem resolution
781-118	D	257	The V.35 cable wrap test failed. Action: Use MAP 0210: General problem resolution
781-119	D	260	The X.21 cable wrap test failed. Action: Use MAP 0210: General problem resolution
781-120	D	781 227 software	The adapter was not detected or could not be configured. test failed. Action: Use MAP 0210: General problem resolution

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
781-121	D	781 227 software	The 4-port jumper cable assembly wrap test failed. Action: Use MAP 0210: General problem resolution
781-200	G	781	The error log analysis indicates the adapter failed. Action: Use MAP 0210: General problem resolution
781-221	G	781 227	The error log analysis indicates the adapter hardware failed. Action: Use MAP 0210: General problem resolution
781-231	D	227	No interface card detected. Action: Use MAP 0210: General problem resolution
781-501	D	B77 B69 227	The power-on self-test (POST) failed. Action: Use MAP 0210: General problem resolution
781-502	D	B77	The memory module failed. Action: Use MAP 0210: General problem resolution
781-503	D	781 227	Adapter hardware failure. Action: Use MAP 0210: General problem resolution
781-504	D	B69	Adapter hardware failure. Action: Use MAP 0210: General problem resolution
781-505	D	B71 B69	Adapter hardware failure. Action: Use MAP 0210: General problem resolution
781-506	D	B72 B69	Adapter hardware failure. Action: Use MAP 0210: General problem resolution
781-507	D	B73 B69	Adapter hardware failure. Action: Use MAP 0210: General problem resolution
781-508	D	B74 B69	Adapter hardware failure. Action: Use MAP 0210: General problem resolution
781-516	D	B77 B69	Adapter Test Failure. Action: Use MAP 0210: General problem resolution
781-517	D	B69 B77	Adapter Test Failure. Action: Use MAP 0210: General problem resolution
781-720	D	258 781	4-port multiprotocol cable Action: Use MAP 0210: General problem resolution
783-110	D	783	The <b>Reserve</b> command failed. Action: Use MAP 0210: General problem resolution
783-120	D	783	The <b>Inquiry</b> command failed. Action: Use MAP 0210: General problem resolution
783-130	D	783 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution
783-135	D	783 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution
783-140	D	783	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution
783-150	D	783 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution
783-160	D	783 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution



Service Request Number	SRN Src.	Failing Function Codes	Description and Action
783-169	D	783 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution
783-170	D	783 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution
783-180	D	783 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution
783-185	D	783 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution
783-190	D	783	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution
783-200	D	783 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution
783-210	D	783 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution
783-220	D	783	The <b>Release</b> command failed. Action: Use MAP 0210: General problem resolution
783-230	D	783	The <b>Request Sense</b> command failed. Action: Use MAP 0210: General problem resolution
783-240	D	783	The <b>Openx</b> command failed. Action: Use MAP 0210: General problem resolution
783-300	D	783 software	The device configuration failed. Action: Use MAP 0210: General problem resolution
783-310	D	B88 783 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution
783-320	G	783 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution
783-411 to 783-423	D	783 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution
783-511 to 783-523	D	783 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution
783-611 to 783-623	D	783 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution
783-711 to 783-723	D	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	D	785 227	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution
785-114	D	785	The register verification test failed. Action: Use MAP 0210: General problem resolution

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<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
785-121	D	785 227	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution
785-122	D	785 227	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution
785-123	D	785 227	The modem control line test failed. Action: Use MAP 0210: General problem resolution
785-124	D	785	The memory test failed. Action: Use MAP 0210: General problem resolution
785-151	D	785 D57	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution
785-152	D	785 D57	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution
785-153	D	785 D57	The modem control line test failed. Action: Use MAP 0210: General problem resolution
785-171	D	259	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution
785-172	D	259	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution
785-173	D	259	The modem control line test failed. Action: Use MAP 0210: General problem resolution
785-181	D	261	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution
785-182	D	261	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution
785-183	D	261	The modem control line test failed. Action: Use MAP 0210: General problem resolution
785-251	D	785 D57	Could not perform because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution
785-252	D	785 D57	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution
785-253	D	785 D57	The modem control line test failed. Action: Use MAP 0210: General problem resolution
785-271	D	785 D57	Could not perform because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution
785-272	D	785 D57	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution
785-273	D	785 D57	The modem control line test failed. Action: Use MAP 0210: General problem resolution
785-281	D	785 D57	Could not perform because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
785-282	D	785 D57	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution
785-283	D	785 D57	The modem control line test failed. Action: Use MAP 0210: General problem resolution
785-481	D	D57	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution
785-482	D	D57	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution
785-483	D	D57	The modem control line test failed. Action: Use MAP 0210: General problem resolution
785-901 to 785-920	D	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	D	785 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution
785-922 to 785-924	D	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	D	785 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution
785-926 to 785-943	D	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	D	786 D96 227	Initiation failed. <b>Note:</b> You must determine which of the first two FFCs is installed in the system unit. Action: Use MAP 0210: General problem resolution
786-210	D	786 227	The adapter test failed. Action: Use MAP 0210: General problem resolution
786-211	D	D96 227	The adapter test failed. Action: Use MAP 0210: General problem resolution
786-220	D	786 Cable Monitor	The display test failed. Action: Use MAP 0210: General problem resolution
786-221	D	D96 Cable Monitor	The display test failed. Action: Use MAP 0210: General problem resolution

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
786-710	D	786 227	The ELA indicates HW failure. Action: Use MAP 0210: General problem resolution
786-711	D	D96 227	The ELA indicates HW failure. Action: Use MAP 0210: General problem resolution
787-100	D	787	GXT500P Graphics Adapter. Action: Use MAP 0210: General problem resolution
787-101	D	787 227	GXT500P Graphics Adapter. Action: Use MAP 0210: General problem resolution
787-1AA	D	787 RGB Cable Display	GXT500P Graphics Adapter. Action: Use MAP 0210: General problem resolution
787-1xx	D	787	GXT500P Graphics Adapter. Action: Use MAP 0210: General problem resolution
787-200	D	D95	GXT550P Graphics Adapter. Action: Use MAP 0210: General problem resolution
787-201	D	D95 227	GXT550P Graphics Adapter. Action: Use MAP 0210: General problem resolution
787-2AA	D	D95 RGB Cable Display	GXT550P Graphics Adapter. Action: Use MAP 0210: General problem resolution
787-2xx	D	D95	GXT550P Graphics Adapter. Action: Use MAP 0210: General problem resolution
788-001	D	788 227	Adapter Error. Action: Use MAP 0210: General problem resolution
788-002	D	software 788	System Error. Action: Use MAP 0210: General problem resolution
788-003	D	software 788	System Error. Action: Use MAP 0210: General problem resolution
788-004	D	788 software	System Error. Action: Use MAP 0210: General problem resolution
789-101	D	789	Failed to release the device. Action: Use MAP 0210: General problem resolution
789-102	D	789	Failed to reserve the device. Action: Use MAP 0210: General problem resolution
789-103	D	789	The device motor failed to start. Action: Use MAP 0210: General problem resolution
789-104	D	789	Failed to make the device ready. Action: Use MAP 0210: General problem resolution
789-105	D	789	Failed to get the inquiry data. Action: Use MAP 0210: General problem resolution
789-106	D	789	The <b>Prevent Media Removal</b> command failed. Action: Use MAP 0210: General problem resolution
789-107	D	789	The <b>Allow Media Removal</b> command failed. Action: Use MAP 0210: General problem resolution

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
789-200	D	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	D	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	D	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
789-204	D	789 B88	The device failed to configure. Action: Use MAP 0210: General problem resolution
789-205	D	789 Optical-Disk	The <b>Test Unit Ready</b> 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	D	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	D	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	D	789 Optical-Disk	The <b>Mode Sense</b> 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	D	789 Optical-Disk	The <b>Mode Select</b> 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	D	789 B88 software	A SCSI reservation conflict has occurred. Action: Use MAP 0210: General problem resolution

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
789-400	D	789 B88 Cables software	A SCSI command time out has occurred. Action: Use MAP 0210: General problem resolution
789-401	D	Optical-Disk 190 B88 software	An unknown error has occurred. Action: Use MAP 0210: General problem resolution
789-402	D	Optical-Disk 190 B88 software	Unit attention condition has occurred. Action: Use MAP 0210: General problem resolution
789-600	G	Optical-Disk	ELA indicates that the spare sectors on the disk are exhausted. Action: Backup the media and replace it. <b>Note:</b> Use the time when the error occurred and the "Spare Sector Availability" service aid to identify the disk that has the error.
789-700	G	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. <b>Note:</b> Use the time when the error occurred to identify the faulty media.
789-701	G	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. <b>Note:</b> Use the time when the error occurred to identify the faulty media.
789-702	G	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	D	Software 78B	Software error. Action: Use MAP 0210: General problem resolution
78B-002	D	78B Software	Adapter failure. Action: Use MAP 0210: General problem resolution
78B-003	D	78B 227	Adapter failure. Action: Use MAP 0210: General problem resolution
78B-004	D	78B Monitor/ Cable	Adapter or display failure. Action: Use MAP 0210: General problem resolution
78B-005	D	78B 227 Monitor/ Cable	Adapter failure. Action: Use MAP 0210: General problem resolution
78D-001	D	software 78D	Software error. Action: Use MAP 0210: General problem resolution

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
78D-002	D	78D software	Adapter failure. Action: Use MAP 0210: General problem resolution
78D-003	D	78D 227	Adapter failure. Action: Use MAP 0210: General problem resolution
78D-004	D	78D Monitor/ Cable	Display failure. Action: Use MAP 0210: General problem resolution
78D-005	D	78D 227 Monitor/ Cable	Adapter failure. Action: Use MAP 0210: General problem resolution
790-101	D	790	Configuration Register Test failure. Action: Use MAP 0210: General problem resolution
790-102	D	790	I/O test failure. Action: Use MAP 0210: General problem resolution
790-103	D	790	Adapter initialization test failure. Action: Use MAP 0210: General problem resolution
790-104	D	790	Internal wrap test failure. Action: Use MAP 0210: General problem resolution
790-105	D	790	Internal wrap test failure. Action: Use MAP 0210: General problem resolution
790-106	D	790	External wrap (10 Mbps) test failure. Action: Use MAP 0210: General problem resolution
790-107	D	790	Internal wrap test failure. Action: Use MAP 0210: General problem resolution
790-108	D	790	External wrap (100 Mbps) test failure. Action: Use MAP 0210: General problem resolution
790-109	D	790	External wrap (10 Mbps) test failure. Action: Use MAP 0210: General problem resolution
790-121	D	790	Configuration register test failure. Action: Use MAP 0210: General problem resolution
790-122	D	790	I/O register test failure. Action: Use MAP 0210: General problem resolution
790-124	D	790	Internal loopback test failure. Action: Use MAP 0210: General problem resolution
790-125	D	790	Internal loopback test failure. Action: Use MAP 0210: General problem resolution
790-126	D	790	External loopback test failure. Action: Use MAP 0210: General problem resolution
790-150	D	B08	10Base-T transceiver test failure. Action: Use MAP 0210: General problem resolution
790-151	D	B09	10Base-2 transceiver test failure. Action: Use MAP 0210: General problem resolution
790-223	D	790 software	Device configuration failure. Action: Use MAP 0210: General problem resolution
790-224	D	B08 790	10 Base-T transceiver test failure. Action: Use MAP 0210: General problem resolution

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
790-225	D	B09 790	10 Base-2 transceiver test failure. Action: Use MAP 0210: General problem resolution
790-250	D	B08 790	10 Base-T transceiver test failure. Action: Use MAP 0210: General problem resolution
790-251	D	B09 790	10 Base-2 transceiver test failure. Action: Use MAP 0210: General problem resolution
790-701	G	790	Error Log Analysis indicates that the adapter is not responding to initialization commands. Action: Use MAP 0210: General problem resolution
790-702	G	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	G	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	G	790	Error Log Analysis indicates a problem with EEPROM on the adapter. Action: Use MAP 0210: General problem resolution
790-720	G	790 software	Error log analysis indicates a hardware problem. Action: Use MAP 0210: General problem resolution
791-xxx to 793-xxx			See SCSI devices SRNs (ssss-102 to ssss-640).
795-201	D	795	Config register test failure. Action: Use MAP 0210: General problem resolution
795-202	D	795	PROM check test failure. Action: Use MAP 0210: General problem resolution
795-203	D	795	Timer and IRQ test failure. Action: Use MAP 0210: General problem resolution
795-204	D	795	Adapter RAM check failure. Action: Use MAP 0210: General problem resolution
795-205	D	795 227	ASIC test failure. Action: Use MAP 0210: General problem resolution
795-206	D	795	High memory (ISA) test failure. Action: Use MAP 0210: General problem resolution
795-207	D	795	RAM check via DMA test failure. Action: Use MAP 0210: General problem resolution
795-208	D	795	FORMAC register test failure. Action: Use MAP 0210: General problem resolution
795-209	D	795 221	PLC1 test failure. Action: Use MAP 0210: General problem resolution
795-210	D	795 227	PLC2 test failure. Action: Use MAP 0210: General problem resolution
795-211	D	795	FORMAC Ring_Op test failure. Action: Use MAP 0210: General problem resolution
795-212	D	795	Send long frame test failure. Action: Use MAP 0210: General problem resolution



Service Request Number	SRN Src.	Failing Function Codes	Description and Action
795-213	D	795	Restricted Token Monitor test failure. Action: Use MAP 0210: General problem resolution
795-214	D	795 227	Receive queue handling test failure. Action: Use MAP 0210: General problem resolution
795-215	D	795 221	FORMAC loopback test failure. Action: Use MAP 0210: General problem resolution
795-216	D	795 221	FORMAC loopback with master access test failure. Action: Use MAP 0210: General problem resolution
795-217	D	795	DMA measurement test failure. Action: Use MAP 0210: General problem resolution
795-218	D	795	Special test failure. Action: Use MAP 0210: General problem resolution
795-219	D	795	Bypass test failure. Action: Use MAP 0210: General problem resolution
795-301	D	795	PLC1 FDDI external wrap failure. Action: Use MAP 0210: General problem resolution
795-302	D	795	PLC2 FDDI external wrap failure. Action: Use MAP 0210: General problem resolution
795-303	D	795	Send long frame FDDI external wrap failure. Action: Use MAP 0210: General problem resolution
795-304	D	795	FORMAC loopback external wrap failure. Action: Use MAP 0210: General problem resolution
795-700	D	795	Error log analysis indicates hardware failure. Action: Use MAP 0210: General problem resolution
799-101	D	2C3 799	External wrap test failed on port 0. Action: Use MAP 0210: General problem resolution
799-102	D	2C3 799	External wrap test failed on port 1. Action: Use MAP 0210: General problem resolution
799-201	D	799 227	Internal adapter test failed. Action: Use MAP 0210: General problem resolution
799-202	D	799 227	External wrap test failed on port 0. Action: Use MAP 0210: General problem resolution
799-203	D	799 227	External wrap test failed on port 1. Action: Use MAP 0210: General problem resolution
799-204	D	2C3 799	External wrap test failed on port 0. Action: Use MAP 0210: General problem resolution
799-205	D	2C3 799	External wrap test failed on port 1. Action: Use MAP 0210: General problem resolution
799-206	D	2C3 799 software	External wrap test failed on port 0. Action: Use MAP 0210: General problem resolution
799-207	D	2C3 799 software	External wrap test failed on port 1. Action: Use MAP 0210: General problem resolution
799-301	D	799 227 software	Internal adapter test failed. Action: Use MAP 0210: General problem resolution

## 700-xxx through 802-67E

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
799-302	D	799 227 software	External wrap test failed on port 0. Action: Use MAP 0210: General problem resolution
799-303	D	799 227 software	External wrap test failed on port 1. Action: Use MAP 0210: General problem resolution
799-304	D	2C3 799 software	External wrap test failed on port 0. Action: Use MAP 0210: General problem resolution
799-305	D	2C3 799 software	External wrap test failed on port 1. Action: Use MAP 0210: General problem resolution
799-700	D	799 software	Error log analysis indicates a hardware problem. Action: Use MAP 0210: General problem resolution
7C1-101	D	7C1 software	Audio Subsystem failed. Action: Use MAP 0210: General problem resolution
7C1-102	D	7C1	CS4232 failed. Action: Use MAP 0210: General problem resolution
7C1-103	D	7C1	Clock control failed. Action: Use MAP 0210: General problem resolution
7C1-107	D	7C1	SoundBlaster interface failed. Action: Use MAP 0210: General problem resolution
7C1-108	D	7C1	Loop back failed. Action: Use MAP 0210: General problem resolution
7C1-109	D	7C1	CODEC ID invalid. Action: Use MAP 0210: General problem resolution
7C1-117	D	D97	Internal speaker failed. Action: Use MAP 0210: General problem resolution
802-67E	C	67E	A resource was not detected that was previously installed. Action: Use MAP 0210: General problem resolution

## SRNs 801-xxxx through 89c-302

**Note:** Some SRNs in this chapter may have 4 rather than 3 digits after the dash (-).

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
801-xxxx	C	xxxx E10 227	No LED value could be determined for the missing resource. <b>Note:</b> 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	C	655	A resource was not detected that was previously installed. Action: Use MAP 0210: General problem resolution.
802-657	C	657	A resource was not detected that was previously installed. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
802-67E	C	67E	A resource was not detected that was previously installed. Action: Use MAP 0210: General problem resolution.
802-684	C	684 687	A potential problem with the RS422 concentrator exists. Action: Use MAP 0210: General problem resolution.
802-787	C	787 D95	The diagnostics did not detect an installed resource. Action: Use MAP 0210: General problem resolution.
802-78D	C	78D	A resource was not detected that was previously installed. Action: Use MAP 0210: General problem resolution.
802-80c	C	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	C	837 687 E10 227	A potential problem with the Enhanced Remote Async Node exists. Action: Use MAP 0210: General problem resolution.
802-2592	C	2592 199 E10 227	The DVD-ROM that was previously installed was not detected. Action: Use MAP 0210: General problem resolution.
802-xxxx	C	xxxx E10 227	The diagnostics did not detect an installed resource. <b>Note:</b> 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	D	xxxx	A software error occurred while running the diagnostics which could be caused by either hardware or software. <b>Note:</b> This SRN can also occur if file the system is full, particularly in the <i>/</i> , <i>/var</i> , or <i>/tmp</i> directories (verify using the <b>df</b> 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. <b>Note:</b> 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.
804-111	D	804 B88	Unable to reserve device. Action: Use MAP 0210: General problem resolution.
804-112	D	804 B88	Unable to do configuration. Action: Use MAP 0210: General problem resolution.
804-113	D	804 B88	Unable to open the device driver. Action: Use MAP 0210: General problem resolution.
804-121	D	804	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.

**801-xxxx through 89c-302**

<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
804-122	D	804	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
804-123	D	804	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
804-125	D	804 B88	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
804-126	D	804	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
804-127	D	804	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
804-128	D	804	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
804-129	D	804	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
804-150	D	Test Disc 804	A media error was detected. Action: Use MAP 0210: General problem resolution.
804-151	D	804 B88	A command timeout was detected. Action: Use MAP 0210: General problem resolution.
804-152	D	804	A command reservation conflict was detected. Action: Use MAP 0210: General problem resolution.
804-162	D	804	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
804-171	D	804	Unable to reserve device. Action: Use MAP 0210: General problem resolution.
804-172	D	804	Unable to do configuration. Action: Use MAP 0210: General problem resolution.
804-173	D	804	Unable to open device driver. Action: Use MAP 0210: General problem resolution.
804-175	D	804	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
804-198	D	804 B88	Undefined error detected. Action: Use MAP 0210: General problem resolution.
804-199	D	804	Undefined error detected. Action: Use MAP 0210: General problem resolution.
804-211	D	804	The LED test failed. Action: Use MAP 0210: General problem resolution.
804-281	D	804	No tone during audio test. Action: Use MAP 0210: General problem resolution.
804-301	G	804	Errors found during ELA. Action: Use MAP 0210: General problem resolution.
804-302	G	804 B88	Errors found during ELA. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
804-xxxx	H	xxxx	An unexpected halt occurred while running the diagnostics. <b>Note:</b> xxxx corresponds to the last three or four digits of the SRN. If your 804-xxxx SRN is not listed, substitute the last three or four digits of the SRN after the dash (-) for xxxx, then proceed to the FFC table using the substituted digits as your FFC. Action: Use MAP 0210: General problem resolution.
806-001 thu 806-017	D	806	GXT800P Graphics Adapter. Action: Use MAP 0210: General problem resolution.
806-018	D	806	GXT800P Graphics Adapter Monitor/Display Cable. Action: Use MAP 0210: General problem resolution.
806-100	D	806	GXT800P Graphics Adapter. Action: Use MAP 0210: General problem resolution.
806-505	D	806 298	GXT800P Graphics Adapter GXT800P Base Memory in slot 0, 1, 2, 3, or 4. Action: Use MAP 0210: General problem resolution.
806-515	D	806 297	GXT800P Graphics Adapter GXT800P Base and Texture Memory in slot 0, 1, 2, 3, or 4. Action: Use MAP 0210: General problem resolution.
806-619	G	221	Error log analysis indicates a machine check due to an unidentified source on the I/O subsystem. Action: Use MAP 0210: General problem resolution.
806-700	D	298	GXT800P Base Memory in slot 0. Action: Use MAP 0210: General problem resolution.
806-701	D	298	GXT800P Base Memory in slot 1. Action: Use MAP 0210: General problem resolution.
806-702	D	298	GXT800P Base Memory in slot 2. Action: Use MAP 0210: General problem resolution.
806-703	D	298	GXT800P Base Memory in slot 3. Action: Use MAP 0210: General problem resolution.
806-704	D	298	GXT800P Base Memory in slot 4. Action: Use MAP 0210: General problem resolution.
806-710	D	297	GXT800P Base and Texture Memory in slot 0. Action: Use MAP 0210: General problem resolution.
806-711	D	297	GXT800P Base and Texture Memory in slot 1. Action: Use MAP 0210: General problem resolution.
806-712	D	297	GXT800P Base and Texture Memory in slot 2. Action: Use MAP 0210: General problem resolution.
806-713	D	297	GXT800P Base and Texture Memory in slot 3. Action: Use MAP 0210: General problem resolution.
806-714	D	297	GXT800P Base and Texture Memory in slot 4. Action: Use MAP 0210: General problem resolution.
806-e00	D	298	GXT800P Base Memory in slot 0. Action: Use MAP 0210: General problem resolution.
806-e01	D	298	GXT800P Base Memory in slot 1. Action: Use MAP 0210: General problem resolution.
806-e02	D	298	GXT800P Base Memory in slot 2. Action: Use MAP 0210: General problem resolution.

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<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
806-e03	D	298	GXT800P Base Memory in slot 3. Action: Use MAP 0210: General problem resolution.
806-e04	D	298	GXT800P Base Memory in slot 4. Action: Use MAP 0210: General problem resolution.
806-e10	D	297	GXT800P Base and Texture Memory in slot 0. Action: Use MAP 0210: General problem resolution.
806-e11	D	297	GXT800P Base and Texture Memory in slot 1. Action: Use MAP 0210: General problem resolution.
806-e12	D	297	GXT800P Base and Texture Memory in slot 2. Action: Use MAP 0210: General problem resolution.
806-e13	D	297	GXT800P Base and Texture Memory in slot 3. Action: Use MAP 0210: General problem resolution.
806-e14	D	297	GXT800P Base and Texture Memory in slot 4. Action: Use MAP 0210: General problem resolution.
807-110	D	807	A critical power supply or fan failure has occurred. Action: Go to General problem resolution.
807-111	D	807	A critical power supply or fan failure has occurred. Action: Go to General problem resolution.
807-112	D	807	A critical power supply or fan failure has occurred. Action: Go to General problem resolution.
807-113	D	807	A critical power supply or fan failure has occurred. Action: Go to General problem resolution.
807-120	D	807	A critical power supply failure has occurred. Action: Go to General problem resolution.
807-121	D	807	A critical power supply failure has occurred. Action: Go to General problem resolution.
807-122	D	807	A critical power supply failure has occurred. Action: Go to General problem resolution.
807-123	D	807	A non-critical power supply failure has occurred. Action: Go to General problem resolution.
807-124	D	807	An unrecoverable power supply failure has occurred. Action: Go to General problem resolution.
807-125	D	807	A critical power supply failure has occurred. Action: Go to General problem resolution.
807-126	D	807	A critical power supply failure has occurred. Action: Go to General problem resolution.
807-127	D	807	A critical power supply failure has occurred. Action: Go to General problem resolution.
807-130	D	807	A critical fan failure has occurred. Action: Go to General problem resolution.
807-131	D	807	A critical fan failure has occurred. Action: Go to General problem resolution.
807-132	D	807	A critical fan failure has occurred. Action: Go to General problem resolution.
807-133	D	807	A non-critical fan failure has occurred. Action: Go to General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
807-134	D	807	An unrecoverable fan failure has occurred. Action: Go to General problem resolution.
807-135	D	807	A critical fan failure has occurred. Action: Go to General problem resolution.
807-136	D	807	A critical fan failure has occurred. Action: Go to General problem resolution.
807-137	D	807	A critical fan failure has occurred. Action: Go to General problem resolution.
807-138	D	807	A critical fan failure has occurred. Action: Go to General problem resolution.
807-139	D	807	A critical fan failure has occurred. Action: Go to General problem resolution.
807-13A	D	807	A critical fan failure has occurred. Action: Go to General problem resolution.
807-13B	D	807	A critical fan failure has occurred. Action: Go to General problem resolution.
807-150	D	807	A critical repeater card failure has occurred. Action: Go to General problem resolution.
807-151	D	807	A critical repeater card failure has occurred. Action: Go to General problem resolution.
807-152	D	807	A critical repeater card failure has occurred. Action: Go to General problem resolution.
807-153	D	807	A critical repeater card failure has occurred. Action: Go to General problem resolution.
807-160	D	807	A critical vpd module failure has occurred. Action: Go to General problem resolution.
807-161	D	807	A critical vpd module failure has occurred. Action: Go to General problem resolution.
807-162	D	807	A critical vpd module failure has occurred. Action: Go to General problem resolution.
807-163	D	807	A critical vpd module failure has occurred. Action: Go to General problem resolution.
807-201	D	807 891	Device configuration error. Action: Go to General problem resolution.
807-202	D	807 891	The enclosure failed to open. Action: Go to General problem resolution.
807-203	D	807 891	The enclosure failed to return inquiry data. Action: Go to General problem resolution.
807-204	D	807	A critical power supply or fan failure has occurred. Action: Go to General problem resolution.
807-205	D	807	A failure has occurred on a redundant power supply or fan. Action: Go to General problem resolution.
807-220	D	807	An unrecoverable power supply failure has occurred. Action: Go to General problem resolution.
807-221	D	807	An unrecoverable power supply failure has occurred. Action: Go to General problem resolution.

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<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
807-222	D	807	An unrecoverable power supply failure has occurred. Action: Go to General problem resolution.
807-223	D	807	An unrecoverable power supply failure has occurred. Action: Go to General problem resolution.
807-224	D	807	An unrecoverable power supply failure has occurred. Action: Go to General problem resolution.
807-225	D	807	An unrecoverable power supply failure has occurred. Action: Go to General problem resolution.
807-226	D	807	An unrecoverable power supply failure has occurred. Action: Go to General problem resolution.
807-227	D	807	An unrecoverable power supply failure has occurred. Action: Go to General problem resolution.
807-230	D	807	An unrecoverable fan failure has occurred. Action: Go to General problem resolution.
807-231	D	807	An unrecoverable fan failure has occurred. Action: Go to General problem resolution.
807-232	D	807	An unrecoverable fan failure has occurred. Action: Go to General problem resolution.
807-233	D	807	An unrecoverable fan failure has occurred. Action: Go to General problem resolution.
807-234	D	807	An unrecoverable fan failure has occurred. Action: Go to General problem resolution.
807-235	D	807	An unrecoverable fan failure has occurred. Action: Go to General problem resolution.
807-236	D	807	An unrecoverable fan failure has occurred. Action: Go to General problem resolution.
807-237	D	807	An unrecoverable fan failure has occurred. Action: Go to General problem resolution.
807-238	D	807	An unrecoverable fan failure has occurred. Action: Go to General problem resolution.
807-239	D	807	An unrecoverable fan failure has occurred. Action: Go to General problem resolution.
807-23A	D	807	An unrecoverable fan failure has occurred. Action: Go to General problem resolution.
807-23B	D	807	An unrecoverable fan failure has occurred. Action: Go to General problem resolution.
807-310	D	807	A redundant power supply or fan failure. Action: Go to General problem resolution.
807-311	D	807	A redundant power supply or fan failure. Action: Go to General problem resolution.
807-312	D	807	A redundant power supply or fan failure. Action: Go to General problem resolution.
807-313	D	807	A redundant power supply or fan failure. Action: Go to General problem resolution.
807-320	D	807	A non-critical power supply failure has occurred. Action: Go to General problem resolution.



Service Request Number	SRN Src.	Failing Function Codes	Description and Action
807-321	D	807	A non-critical power supply failure has occurred. Action: Go to General problem resolution.
807-322	D	807	A non-critical power supply failure has occurred. Action: Go to General problem resolution.
807-323	D	807	A non-critical power supply failure has occurred. Action: Go to General problem resolution.
807-324	D	807	A non-critical power supply failure has occurred. Action: Go to General problem resolution.
807-325	D	807	A non-critical power supply failure has occurred. Action: Go to General problem resolution.
807-326	D	807	A non-critical power supply failure has occurred. Action: Go to General problem resolution.
807-327	D	807	A non-critical power supply failure has occurred. Action: Go to General problem resolution.
807-330	D	807	A non-critical fan failure has occurred. Action: Go to General problem resolution.
807-331	D	807	A non-critical fan failure has occurred. Action: Go to General problem resolution.
807-332	D	807	A non-critical fan failure has occurred. Action: Go to General problem resolution.
807-333	D	807	A non-critical fan failure has occurred. Action: Go to General problem resolution.
807-334	D	807	A non-critical fan failure has occurred. Action: Go to General problem resolution.
807-335	D	807	A non-critical fan failure has occurred. Action: Go to General problem resolution.
807-336	D	807	A non-critical fan failure has occurred. Action: Go to General problem resolution.
807-337	D	807	A non-critical fan failure has occurred. Action: Go to General problem resolution.
807-338	D	807	A non-critical fan failure has occurred. Action: Go to General problem resolution.
807-339	D	807	A non-critical fan failure has occurred. Action: Go to General problem resolution.
807-33A	D	807	A non-critical fan failure has occurred. Action: Go to General problem resolution.
807-33B	D	807	A non-critical fan failure has occurred. Action: Go to General problem resolution.
814-112	D	814	The NVRAM test failed. Action: Use MAP 0210: General problem resolution.
814-113	D	221	The VPD test failed. Action: Use MAP 0210: General problem resolution.
814-114	D	814	I/O Card NVRAM test failed. Action: Use MAP 0210: General problem resolution.
815-100	D	815	The floating-point processor test failed. Action: Use MAP 0210: General problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
815-101	D	815	Floating point processor failed. Action: Use MAP 0210: General problem resolution.
815-102	D	815	Floating point processor failed. Action: Use MAP 0210: General problem resolution.
815-200	D	815 7C0	Power-on self-test indicates a processor failure. Action: Use MAP 0210: General problem resolution.
815-201	D	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	D	165 816	The four-digit display test failed. Action: Use MAP 0210: General problem resolution.
817-123	D	817	The I/O planar time-of-day clock test failed. Action: Use MAP 0210: General problem resolution.
817-124	D	817	Time of day RAM test failed. Action: Use MAP 0210: General problem resolution.
817-210	D	817	The time-of-day clock is at POR. Action: Use MAP 0210: General problem resolution.
817-211	D	817 169	Time of day POR test failed. Action: Use MAP 0210: General problem resolution.
817-212	D	151 816	The battery is low. Action: Use MAP 0210: General problem resolution.
817-213	D	817	The real-time clock is not running. Action: Use MAP 0210: General problem resolution.
817-215	D	817	Time of day clock not running test failed. Action: Use MAP 0210: General problem resolution.
817-217	D	817 169	Time of day clock not running. Action: Use MAP 0210: General problem resolution.
821-111	D	821 B31	Unexpected results from the test. Action: Use MAP 0210: General problem resolution.
821-332	D	821 software	Cannot open device. Action: Use MAP 0210: General problem resolution.
823-111	D	823	Standard Mouse adapter failed. Action: Use MAP 0210: General problem resolution.
823-134	D	823 software	Cannot open device. Action: Use MAP 0210: General problem resolution.
823-211	D	925 823	Standard mouse adapter failed. Action: Use MAP 0210: General problem resolution.
824-220	D	B10 824	The tablet adapter fuse failed. Action: Use MAP 0210: General problem resolution.
824-331	D	824 227	An unexpected error occurred. Action: Use MAP 0210: General problem resolution.
824-332	D	824 227	The enable/disable device test failed. <b>Note:</b> 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	D	824	The internal wrap test failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
824-334	D	B10 824	The tablet adapter fuse failed. Action: Use MAP 0210: General problem resolution.
824-441	D	824	An unexpected error occurred. Action: Use MAP 0210: General problem resolution.
824-442	D	824	The wrap test failed. Action: Use MAP 0210: General problem resolution.
824-450	D	227	Software error caused by hardware failure. Action: Use MAP 0210: General problem resolution.
824-461	G	227	The error log analysis indicates a hardware failure. Action: Use MAP 0210: General problem resolution.
824-511	D	824	An unexpected error occurred. Action: Use MAP 0210: General problem resolution.
824-512	D	824	Tablet adapter reset test failed. Action: Use MAP 0210: General problem resolution.
824-522	D	B10 824	Adapter fuse failure. Action: Use MAP 0210: General problem resolution.
824-523	D	824	Device cannot be configured. Action: Use MAP 0210: General problem resolution.
824-524	D	824 software	Cannot open device. Action: Use MAP 0210: General problem resolution.
826-111	D	221	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
826-112	D	221	Unable to determine the type of adapter from the VPD. Action: Use MAP 0210: General problem resolution.
826-113	D	826	The VPD verification test failed. Action: Use MAP 0210: General problem resolution.
826-114	D	826	The register verification test failed. Action: Use MAP 0210: General problem resolution.
826-121	D	221	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
826-122	D	221	The data-wrap communications test failed. Action: Use MAP 0210: General problem resolution.
826-123	D	221	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
826-131	D	221	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
826-132	D	221	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
826-133	D	221	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
826-161	D	252	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.

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<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
826-162	D	252	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
826-163	D	252	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
826-171	D	259	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
826-172	D	259	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
826-173	D	259	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
826-181	D	261	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
826-182	D	261	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
826-183	D	261	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
826-271	D	826 259	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
826-272	D	826 259	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
826-273	D	826 259	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
826-281	D	826 259	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
826-282	D	826 259	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
826-283	D	826 259	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
826-321	D	826	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
826-322	D	826	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
826-323	D	826	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
826-331	D	826	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
826-332	D	826	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
826-333	D	826	The modem control line test failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
826-371	D	826	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
826-372	D	826	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
826-373	D	826	The modem control line test failed. Action: Use MAP 0210: General problem resolution
826-381	D	826	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution
826-382	D	826	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
826-383	D	826	The modem control line test failed. Action: Use MAP 0210: General problem resolution
826-481	D	D56	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
826-482	D	D56	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution
826-483	D	D56	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
826-581	D	826 D56	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution
826-582	D	826 D56	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution
826-583	D	826 D56	The modem control line test failed. Action: Use MAP 0210: General problem resolution
826-901 to 826-920	D	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	D	826 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution
826-922 to 826-924	D	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	D	826 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution

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<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
826-926 to 826-943	D	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	D	221	The parallel port data register write/read test failed. Action: Use MAP 0210: General problem resolution.
827-121	D	827	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
827-122	D	827	The parallel port data register write/read test failed. Action: Use MAP 0210: General problem resolution.
827-123	D	827	The parallel port control register write/read test failed. Action: Use MAP 0210: General problem resolution.
827-124	D	827	The parallel port data register read test failed. Action: Use MAP 0210: General problem resolution.
827-125	D	827	The parallel port control register read test failed. Action: Use MAP 0210: General problem resolution.
827-126	D	827	The parallel port control register read test failed. Action: Use MAP 0210: General problem resolution.
827-131	D	827	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
827-132	D	827	The control port register direction bit (write) test with BIDI enabled failed. Action: Use MAP 0210: General problem resolution.
827-133	D	827	The control port register direction bit (read) test with BIDI enabled failed. Action: Use MAP 0210: General problem resolution.
827-141	D	827	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
827-142	D	827	The parallel port control register write/read test with BIDI enabled failed. Action: Use MAP 0210: General problem resolution.
827-151	D	221	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
827-152	D	827	The parallel port status register read test failed. Action: Use MAP 0210: General problem resolution.
827-161	D	827	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
827-162	D	221	The parallel port interrupt test failed. Action: Use MAP 0210: General problem resolution.
827-163	D	221	The parallel port interrupt test failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
827-201	D	827	The extend control register of the parallel port failed a read/write test. Action: Use MAP 0210: General problem resolution.
827-202	D	827	Input/output to the FIFO (without interrupts) failed. Action: Use MAP 0210: General problem resolution.
827-203	D	827	Input/output to the FIFO (with interrupts) failed. Action: Use MAP 0210: General problem resolution.
827-204	D	827	Direct memory access to the FIFO failed. Action: Use MAP 0210: General problem resolution.
828-501	D	828	The diskette adapter test failed. Action: Use MAP 0210: General problem resolution.
82C-102	D	82C	Adapter test failed. Action: Use MAP 0210: General problem resolution.
82C-104	D	82C 725	Display test failed. Action: Use MAP 0210: General problem resolution.
830-111	D	830 227	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
830-114	D	830	The register verification test failed. Action: Use MAP 0210: General problem resolution.
830-121	D	830 227	Could not do the test because the device driver detected a hardware problem. Action: Use MAP 0210: General problem resolution.
830-122	D	830 227	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
830-123	D	830 227	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
830-124	D	830	The memory test failed. Action: Use MAP 0210: General problem resolution.
830-151	D	B54 830	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
830-152	D	B54 830	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
830-153	D	B54 830	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
830-171	D	259	Could not run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
830-172	D	259	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
830-173	D	259	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
830-181	D	261	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
830-182	D	261	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.

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<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
830-183	D	261	Interposer Wrap test failed. Action: Use MAP 0210: General problem resolution.
830-251	D	830 D57	Could not perform because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
830-252	D	830 B54	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
830-253	D	830 B54	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
830-271	D	830 B54	Could not perform because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
830-272	D	830 B54	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
830-273	D	830 B54	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
830-281	D	830 D57	Could not perform the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
830-282	D	830 B54	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
830-283	D	830 B54	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
830-481	D	B54	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
830-482	D	B54	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
830-483	D	B54	Async Cable Wrap Test failed. Action: Use MAP 0210: General problem resolution.
830-901 to 830-920	D	software 830	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 830; otherwise, suspect a software problem.
830-921	D	830 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
830-922 to 830-924	D	software 830	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 830; otherwise, suspect a software problem.
830-925	D	830 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.



Service Request Number	SRN Src.	Failing Function Codes	Description and Action
830-926 to 830-943	D	software 830	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 830; otherwise, suspect a software problem.
831-111	D	221	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-112	D	221	Unable to determine the type of adapter from the VPD. Action: Use MAP 0210: General problem resolution.
831-113	D	831	The VPD verification test failed. Action: Use MAP 0210: General problem resolution.
831-114	D	831	The register verification test failed. Action: Use MAP 0210: General problem resolution.
831-121	D	221	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-122	D	221	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
831-123	D	221	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-131	D	221	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-132	D	221	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
831-133	D	221	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-161	D	252	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-162	D	252	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
831-163	D	252	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-164	D	221 252	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-165	D	221 252	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
831-166	D	221 252	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-171	D	259	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-172	D	259	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.

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<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
831-173	D	259	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-181	D	261	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-182	D	261	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
831-183	D	261	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-271	D	831 259	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-272	D	831 259	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
831-273	D	831 259	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-281	D	831 259	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-282	D	831 259	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
831-283	D	831 259	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-321	D	831	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-322	D	831	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
831-323	D	831	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-331	D	831	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-332	D	831	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
831-333	D	831	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-371	D	831	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-372	D	831	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
831-373	D	831	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-381	D	831	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
831-382	D	831	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
831-383	D	831	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-481	D	D56	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-482	D	D56	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
831-483	D	D56	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-581	D	831 D56	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
831-582	D	831 D56	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
831-583	D	831 D56	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
831-901 to 831-920	D	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	D	831 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
831-922 to 831-924	D	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	D	831 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
831-926 to 831-943	D	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	G	xxxx	I/O bridge/device internal error <b>Note:</b> 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	SRN Src.	Failing Function Codes	Description and Action
833-xxxx	G	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. <b>Note:</b> xxxx represents the last 3 or 4 digits of the SRN after the dash (-). Action: Use MAP 0210: General problem resolution.
836-101	D	836	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
836-111	D	836 227	Cannot run test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
836-112	D	836 227	Unable to determine the type of adapter from the VPD. Action: Use MAP 0210: General problem resolution.
836-113	D	836	The VPD verification test failed. Action: Use MAP 0210: General problem resolution.
836-114	D	836	The register verification test failed. Action: Use MAP 0210: General problem resolution.
836-115	D	836	The VPD verification test failed. Action: Use MAP 0210: General problem resolution.
836-116	D	B54 836	The 128-port controller line test failed. Action: Use MAP 0210: General problem resolution.
836-117	D	684	Remote Async Node test failed. Action: Use MAP 0210: General problem resolution.
836-118	D	837	Remote async node test failed. Action: Use MAP 0210: General problem resolution.
836-119	F	836	Sync line termination test failed. Action: Use MAP 0210: General problem resolution.
836-151	D	837	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
836-152	D	837	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
836-153	D	837	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
836-154	D	684 836	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
836-155	D	684 836 152	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
836-161	D	C22	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
836-162	D	C22	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
836-163	D	C22	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
836-164	D	D06	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
836-171	D	259	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
836-172	D	259	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
836-173	D	259	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
836-174	D	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	D	263	The data wrap communications test failed while running the Printer/Terminal cable wrap test. Action: Use MAP 0210: General problem resolution.
836-181	D	261	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
836-182	D	261	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
836-183	D	261	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
836-251	D	836 837	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
836-252	D	836 837	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
836-253	D	836 837	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
836-254	D	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	D	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	D	836 837	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
836-272	D	836 837	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
836-273	D	836 837	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
836-274	D	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	D	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	D	836 837	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.

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<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
836-282	D	836 837	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
836-283	D	836 837	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
836-481	D	D56	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
836-482	D	D56	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
836-483	D	D56	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
836-901 to 836-920	D	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	D	836 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
836-922 to 836-924	D	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	D	836 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
836-926 to 836-943	D	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	D	221	Enhanced error handling failure on the bus. Action: Use MAP 0210: General problem resolution.
840-102	D	293	Enhanced error handling failure on a PCI-PCI Bridge. Action: Use MAP 0210: General problem resolution.
840-103	D	840 221	Enhanced error handling failure on the adapter. Action: Use MAP 0210: General problem resolution.
840-212	D	840	FIFO empty bit set. Action: Use MAP 0210: General problem resolution.
840-213	D	840	FIFO empty bit clear. Action: Use MAP 0210: General problem resolution.
840-214	D	840	FIFO full bit set. Action: Use MAP 0210: General problem resolution.
840-215	D	840	FIFO full bit clear. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
840-216	D	840	FIFO data miscompare. Action: Use MAP 0210: General problem resolution.
840-217	D	840	SCSI FIFO data miscompare. Action: Use MAP 0210: General problem resolution.
840-218	D	840	SCSI FIFO underflow. Action: Use MAP 0210: General problem resolution.
840-219	D		SCSI parity error. Action: Use MAP 0050: SCSI Bus Problems.
840-220	D	840	SCSI FIFO flags error. Action: Use MAP 0210: General problem resolution.
840-221	D	840 221	Miscompare during the write/read of the configuration register. Action: Use MAP 0210: General problem resolution.
840-222	D	840	Error during the write/read of the memory register. Action: Use MAP 0210: General problem resolution.
840-223	D	840	Miscompare during the write/read of the memory I/O register. Action: Use MAP 0050: SCSI Bus Problems.
840-224	D	840 221	SCSI configuration register read or write error. Action: Use MAP 0210: General problem resolution.
840-225	D	840	Adapter POST failed. Action: Use MAP 0210: General problem resolution.
840-226	D		SCSI wrap or PTC failure. Action: Go to SCSI Bus Problems.
840-227	D	840 221	SCSI adapter test failure. Action: Use MAP 0210: General problem resolution.
840-230	D		Arbitration test failed. Action: Go to SCSI Bus Problems.
840-231	D		Function could not complete. Action: Go to SCSI Bus Problems.
840-232	D		SCSI bus data miscompare. Action: Go to SCSI Bus Problems.
840-240	D		No terminal power. Action: Go to SCSI Bus Problems.
840-242	D		SCSI bus error. Action: Go to SCSI Bus Problems.
840-301	D	840 221	The parent device open failed. Action: Use MAP 0210: General problem resolution.
840-701	G	840	Error log analysis indicates a PCI SCSI adapter failure. Action: Use MAP 0210: General problem resolution.
840-801	G		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.

801-xxxx through 89c-302

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
840-802	G		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	G		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	D	844	A 7135 controller problem is indicated. Action: Use 7135 documentation.
845-xxx series	D	845	A 7135 DASD drawer problem is indicated. Action: Use 7135 documentation.
846-xxx series	D	846	A 7135 DASD drawer problem is indicated. Action: Use 7135 documentation.
868-101	D	221	Enhanced error handling failure on the bus. Action: Use MAP 0210: General problem resolution.
868-102	D	293	Enhanced error handling failure on a PCI-PCI Bridge. Action: Use MAP 0210: General problem resolution.
868-103	D	868 221	Enhanced error handling failure on the adapter. Action: Use MAP 0210: General problem resolution.
868-110	D	221	The adapter diagnostic subcommand test failed. Action: Use MAP 0210: General problem resolution.
868-130	D	279	The adapter fuse test failed. Action: Use MAP 0210: General problem resolution.
868-140	D	868	The wrap test failed. Action: Use MAP 0210: General problem resolution.
868-150	D	868	The BCR registers write/read test failed. Action: Use MAP 0210: General problem resolution.
868-160	D	868	The POS registers write/read test failed. Action: Use MAP 0210: General problem resolution.
868-170	D	868	The internal/external reset test failed. Action: Use MAP 0210: General problem resolution.
868-180	D	279 868	The adapter command timed out. <b>Note:</b> Check the fuse before replacing. Action: Use MAP 0210: General problem resolution.
868-190	D	221	A software error was caused by a hardware failure. Action: Use MAP 0210: General problem resolution.
868-191	G	868	Analysis of the error log indicates a problem with the hardware. Action: Use MAP 0210: General problem resolution.
868-192	G	221	Analysis of the error log indicates a problem with the hardware. Action: Use MAP 0210: General problem resolution.
868-193	G	279	Analysis of the error log indicates a problem with the hardware. Action: Use MAP 0210: General problem resolution.



Service Request Number	SRN Src.	Failing Function Codes	Description and Action
868-194	G	868	Analysis of the error log indicates a problem with the hardware. Action: Use MAP 0210: General problem resolution.
868-200	D	868	ROM CRC error. Action: Use MAP 0210: General problem resolution.
868-201	D	868	Adapter RAM error. Action: Use MAP 0210: General problem resolution.
868-202	D	868	The control logic failed. Action: Use MAP 0210: General problem resolution.
868-203	D	868	The control logic failed. Action: Use MAP 0210: General problem resolution.
868-204	D	868	The control logic failed. Action: Use MAP 0210: General problem resolution.
868-205	D	868	The control logic failed. Action: Use MAP 0210: General problem resolution.
868-206	D	868	Diagnostics completed with a previous error. Action: Use MAP 0210: General problem resolution.
868-211	D	279 868 software	The device failed to configure. Action: Use MAP 0210: General problem resolution.
868-212	D	868	FIFO empty bit set. Action: Use MAP 0210: General problem resolution.
868-213	D	868	FIFO empty bit clear. Action: Use MAP 0210: General problem resolution.
868-214	D	868	FIFO full bit set. Action: Use MAP 0210: General problem resolution.
868-215	D	868	FIFO full bit clear. Action: Use MAP 0210: General problem resolution.
868-216	D	868	FIFO data miscompare. Action: Use MAP 0210: General problem resolution.
868-217	D	868	SCSI FIFO data miscompare. Action: Use MAP 0210: General problem resolution.
868-218	D	868	SCSI FIFO underflow. Action: Use MAP 0210: General problem resolution.
868-219	D		SCSI parity error. Action: Go to MAP 0050: SCSI Bus Problems. Action: Use MAP 0210: General problem resolution.
868-220	D	868	SCSI FIFO flags error. Action: Use MAP 0210: General problem resolution.
868-221	D	868 221	Miscompare during the write/read of the configuration register. Action: Use MAP 0210: General problem resolution.
868-222	D	868	Error during the write/read of the memory register. Action: Use MAP 0210: General problem resolution.
868-223	D	868	Miscompare during the write/read of the memory I/O register. Action: Go to SCSI Bus Problems.
868-224	D	868 221	SCSI configuration register read or write error. Action: Use MAP 0210: General problem resolution.
868-225	D	868	Adapter POST failed. Action: Use MAP 0210: General problem resolution.

**801-xxxx through 89c-302**

<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
868-226	D		SCSI wrap or PTC failure. Action: Go to SCSI Bus Problems.
868-227	D	868 221	SCSI adapter test failure. Action: Use MAP 0210: General problem resolution.
868-230	D		Arbitration test failed. Action: Go to SCSI Bus Problems.
868-231	D		Function could not complete. Action: Go to SCSI Bus Problems.
868-232	D		SCSI bus data miscompare. Action: Go to SCSI Bus Problems.
868-240	D		No terminal power. Action: Go to SCSI Bus Problems.
868-242	D		SCSI bus error. Action: Go to SCSI Bus Problems.
868-301	D	868 221	Configuration open failed for parent bus. Action: Use MAP 0210: General problem resolution.
868-701	G	868	Error log analysis indicates a PCI SCSI adapter failure. Action: Use MAP 0210: General problem resolution.
868-801	G		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	G		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	G		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	D	887	POS register test failed. Action: Use MAP 0210: General problem resolution.
887-102	D	887	I/O register test failed. Action: Use MAP 0210: General problem resolution.
887-103	D	887	Local RAM test failed. Action: Use MAP 0210: General problem resolution.
887-104	D	887	Vital Product Data (VPD) failed. Action: Use MAP 0210: General problem resolution.
887-105	D	887	LAN coprocessor internal tests failed. Action: Use MAP 0210: General problem resolution.
887-106	D	887	Internal loopback test failed. Action: Use MAP 0210: General problem resolution.
887-107	D	887	External loopback test failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
887-108	D	887	External loopback test failed. Action: Use MAP 0210: General problem resolution.
887-109	D	887	External loopback parity tests failed. Action: Use MAP 0210: General problem resolution.
887-110	D	887	External loopback fairness test failed. Action: Use MAP 0210: General problem resolution.
887-111	D	887	External loopback fairness and parity tests failed. Action: Use MAP 0210: General problem resolution.
887-112	D	887	External loopback (twisted pair) test failed. Action: Use MAP 0210: General problem resolution.
887-113	D	887	External loopback (twisted pair) parity test failed. Action: Use MAP 0210: General problem resolution.
887-114	D	887	Ethernet loopback (twisted pair) fairness test failed. Action: Use MAP 0210: General problem resolution.
887-115	D	887	External loopback (twisted pair) fairness and parity tests failed. Action: Use MAP 0210: General problem resolution.
887-116	D	887	Twisted pair wrap data failed. Action: Use MAP 0210: General problem resolution.
887-117	D	887 software	Device configuration fails. Action: Use MAP 0210: General problem resolution.
887-118	D	887	Device driver indicates a hardware problem. Action: Use MAP 0210: General problem resolution.
887-120	D	887	Device driver indicates a hardware problem. Action: Use MAP 0210: General problem resolution.
887-121	D	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	D	887	Internal loopback test failed. Action: Use MAP 0210: General problem resolution.
887-124	G	887 software	Error log indicates a hardware problem. Action: Use MAP 0210: General problem resolution.
887-125	G	887	Fuse test failed. Action: Use MAP 0210: General problem resolution.
887-202	D	887	Vital product data test failed. Action: Use MAP 0210: General problem resolution.
887-203	D	887	Vital product data test failed. Action: Use MAP 0210: General problem resolution.
887-209	D	887	RJ-45 converter test failed. Action: Use MAP 0210: General problem resolution.
887-304	D	887	Coprocessor internal test failed. Action: Use MAP 0210: General problem resolution.
887-305	D	887	Internal loopback test failed. Action: Use MAP 0210: General problem resolution.
887-306	D	887	Internal loopback test failed. Action: Use MAP 0210: General problem resolution.

## 801-xxxx through 89c-302

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
887-307	D	887	External loopback test failed. Action: Use MAP 0210: General problem resolution.
887-319	D	887 software	Device driver indicates a hardware failure. Action: Use MAP 0210: General problem resolution.
887-400	D	887	Fuse test failed. Action: Use MAP 0210: General problem resolution.
887-401	D	887	Circuit breaker for Ethernet test failed. Action: Use MAP 0210: General problem resolution.
887-402	D	B09 887	Ethernet 10 Base-2 transceiver test failed. Action: Use MAP 0210: General problem resolution.
887-403	D	B08 887	Ethernet 10 Base-T transceiver test failed. Action: Use MAP 0210: General problem resolution.
887-405	F	Ethernet- network 887	Rerun diagnostics in advanced mode for accurate problem determination. Action: Use MAP 0210: General problem resolution.
89c-111	D	89c B88	Unable to reserve device. Action: Use MAP 0210: General problem resolution.
89c-112	D	89c B88	Unable to do configuration. Action: Use MAP 0210: General problem resolution.
89c-113	D	89c B88	Unable to open the device driver. Action: Use MAP 0210: General problem resolution.
89c-121	D	89c	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
89c-122	D	89c	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
89c-123	D	89c	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
89c-125	D	89c B88	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
89c-126	D	89c	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
89c-127	D	89c	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
89c-128	D	89c	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
89c-129	D	89c	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
89c-150	D	Test- Disc 89c	A media error was detected. Action: Use MAP 0210: General problem resolution.
89c-151	D	89c D88	A command timeout was detected. Action: Use MAP 0210: General problem resolution.
89c-152	D	89c	A command reservation conflict was detected. Action: Use MAP 0210: General problem resolution.
89c-162	D	89c	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
89c-171	D	89c	Unable to reserve device. Action: Use MAP 0210: General problem resolution.
89c-172	D	89c	Unable to do configuration. Action: Use MAP 0210: General problem resolution.
89c-173	D	89c	Unable to open device driver. Action: Use MAP 0210: General problem resolution.
89c-175	D	89c	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
89c-198	D	89c B88	Undefined error detected. Action: Use MAP 0210: General problem resolution.
89c-199	D	89c	Undefined error detected. Action: Use MAP 0210: General problem resolution.
89c-211	D	89c	The LED test failed. Action: Use MAP 0210: General problem resolution.
89c-281	D	89c	No tone during audio test. Action: Use MAP 0210: General problem resolution.
89c-301	G	89c	Errors found during ELA. Action: Use MAP 0210: General problem resolution.
89c-302	G	89c B88	Errors found during ELA. Action: Use MAP 0210: General problem resolution.

## SRNs 900-001 through xxxxxxxx

**Note:** Some SRNs in this chapter may have 4 rather than 3 digits after the dash (-).

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
900-001	D	900 227 Monitor	"NO" to color panel. Action: Use MAP 0210: General problem resolution.
900-002	D	900 Monitor	"NO" to cursor panel. Action: Use MAP 0210: General problem resolution.
900-007	D	Info code	The EMC_SCROLLING_17_H_TEST failed. Action: Use MAP 0210: General problem resolution.
900-009	D	Info code	The EMC_SCROLLING_21_H_TEST failed. Action: Use MAP 0210: General problem resolution.
900-064	D	900 227	TRIO64V+_TIMEOUT. Action: Use MAP 0210: General problem resolution.
900-101	D	900 227	Color miscompare. Action: Use MAP 0210: General problem resolution.
900-102	D	900 227	Clipping error. Action: Use MAP 0210: General problem resolution.
900-103	D	900 227	Rectangle fill test failed. Action: Use MAP 0210: General problem resolution.
900-128	D	software 900	MALLOC_ERROR. Action: Use MAP 0210: General problem resolution.

900-001 through xxxxxxxx

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
900-161	D	software	Loop count value in rules file is zero. Action: Use MAP 0210: General problem resolution.
900-191	D	900 227	Red screen error. Action: Use MAP 0210: General problem resolution.
900-193	D	900 227	Green screen error. Action: Use MAP 0210: General problem resolution.
900-1FF	D	900 227	Rectangle fill test failed. Action: Use MAP 0210: General problem resolution.
900-201	D	900 227	Color miscompare. Action: Use MAP 0210: General problem resolution.
900-202	D	900 227	Clipping error. Action: Use MAP 0210: General problem resolution.
900-203	D	900 227	Image transfer across Plane Test failed. Action: Use MAP 0210: General problem resolution.
900-211	D	software	INTERNAL_ERROR_DATA_SIZE. Action: Use MAP 0210: General problem resolution.
900-212	D	software	INTERNAL_ERROR_NO_ACCESS. Action: Use MAP 0210: General problem resolution.
900-215	D	900 227	Black screen error. Action: Use MAP 0210: General problem resolution.
900-217	D	900 227	9 x 7 Cross hatch grid failed. Action: Use MAP 0210: General problem resolution.
900-233	D	software	OPEN_RCM_ERROR. Action: Use MAP 0210: General problem resolution.
900-234	D	software	IOCTL_GSC_HANDLE_FAILED. Action: Use MAP 0210: General problem resolution.
900-235	D	software	AIXGSC_MAKE_GP_FAILED. Action: Use MAP 0210: General problem resolution.
900-236	D	software	AIXGSC_UNMAKE_GP_FAILED. Action: Use MAP 0210: General problem resolution.
900-237	D	software	DEVICE_BUSY_ERROR. Action: Use MAP 0210: General problem resolution.
900-241	D	Info code	The SCROLLING_17_H_TEST failed. Action: Use MAP 0210: General problem resolution.
900-263	D	Info code	The EMC_SCROLLING_21_H_TEST failed. Action: Use MAP 0210: General problem resolution.
900-2FF	D	900 227	Image transfer across Plane Test failed. Action: Use MAP 0210: General problem resolution.
900-301	D	900 227	A write of "0x00" to the palette register failed. Action: Use MAP 0210: General problem resolution.
900-302	D	900 227	A write of "0x15" to the palette register failed. Action: Use MAP 0210: General problem resolution.
900-303	D	900 227	A write of "0x2A" to the palette register failed. Action: Use MAP 0210: General problem resolution.
900-304	D	900 227	A write of "0x3F" to the palette register failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
900-305	D	900 227	The test of the palette registers failed. Action: Use MAP 0210: General problem resolution.
900-3FF	D	900 227	The test of the palette registers failed. Action: Use MAP 0210: General problem resolution.
900-401	D	900 227	Frame buffer base address inconsistent. Action: Use MAP 0210: General problem resolution.
900-402	D	900 227	VRAM inaccessible. Action: Use MAP 0210: General problem resolution.
900-403	D	900 227	Miscompare found in VRAM. Action: Use MAP 0210: General problem resolution.
900-404	D	900 227	The test of the VRAM failed. Action: Use MAP 0210: General problem resolution.
900-447	D	900 227	Green screen error. Action: Use MAP 0210: General problem resolution.
900-449	D	900 227	Blue Screen error. Action: Use MAP 0210: General problem resolution.
900-471	D	900 227	9 x 7 Cross hatch grid failed. Action: Use MAP 0210: General problem resolution.
900-473	D	900 227	The 11 x 9 Cross hatch grid failed. Action: Use MAP 0210: General problem resolution.
900-495	D	Info code	The SCROLLING_17_H_TEST failed. Action: Use MAP 0210: General problem resolution.
900-497	D	Info code	The SCROLLING_21_H_TEST failed. Action: Use MAP 0210: General problem resolution.
900-4FF	D	900 227	The test of the VRAM failed. Action: Use MAP 0210: General problem resolution.
900-501	D	900 227	Color miscompare. Action: Use MAP 0210: General problem resolution.
900-502	D	900 227	Clipping error. Action: Use MAP 0210: General problem resolution.
900-503	D	900 227	Direct Frame Buffer test failed. Action: Use MAP 0210: General problem resolution.
900-5FF	D	900 227	Direct Frame Buffer test failed. Action: Use MAP 0210: General problem resolution.
900-601	D	900 227	Video Stream Register test failed. Action: Use MAP 0210: General problem resolution.
900-602	D	900 227	Video Stream hardware test failed. Action: Use MAP 0210: General problem resolution.
900-6FF	D	900 227	Video Stream hardware test failed. Action: Use MAP 0210: General problem resolution.
900-701	D	900 227	The 0-Degree Short Stroke Draw failed. Action: Use MAP 0210: General problem resolution.
900-702	D	900 227	The 45-Degree Short Stroke Draw failed. Action: Use MAP 0210: General problem resolution.
900-703	D	900 227	Blue Screen error, or 90 Degree Short Stroke Draw failed. Action: Use MAP 0210: General problem resolution.

900-001 through xxxxxxxx

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
900-704	D	900 227	The 135-Degree Short Stroke Draw failed. Action: Use MAP 0210: General problem resolution.
900-705	D	900 227	White screen error, or 180 Degree Short Stroke Draw failed. Action: Use MAP 0210: General problem resolution.
900-706	D	900 227	The 225-Degree Short Stroke Draw failed. Action: Use MAP 0210: General problem resolution.
900-707	D	900 227	The 270-Degree Short Stroke Draw failed. Action: Use MAP 0210: General problem resolution.
900-708	D	900 227	The 315-Degree Short Stroke Draw failed. Action: Use MAP 0210: General problem resolution.
900-709	D	900 227	Short Stroke Vector Function test failed. Action: Use MAP 0210: General problem resolution.
900-727	D	900 227	The 11 x 9 Cross hatch grid failed. Action: Use MAP 0210: General problem resolution.
900-750	D	Info code	The SCROLLING_21_H_TEST failed. Action: Use MAP 0210: General problem resolution.
900-753	D	Info code	The EMC_SCROLLING_17_H_TEST failed. Action: Use MAP 0210: General problem resolution.
900-7FE	D	900 227	Short Stroke Vector Function test failed. Action: Use MAP 0210: General problem resolution.
900-7FF	D	software 900 227	Bad vector detected. Action: Use MAP 0210: General problem resolution.
900-801	D	900 227	Color for PatBlt thru screen failed. Action: Use MAP 0210: General problem resolution.
900-802	D	900 227	Clipping for PatBlt thru screen failed. Action: Use MAP 0210: General problem resolution.
900-803	D	900 227	Color for PatBlt Across screen failed. Action: Use MAP 0210: General problem resolution.
900-804	D	900 227	Clipping for PatBlt Across screen failed. Action: Use MAP 0210: General problem resolution.
900-805	D	900 227	Pattern Fill Across the Plane test failed. Action: Use MAP 0210: General problem resolution.
900-8FF	D	900 227	Pattern Fill Across the Plane test failed. Action: Use MAP 0210: General problem resolution.
900-901	D	900 227	Color miscompare of white boxes detected. Action: Use MAP 0210: General problem resolution.
900-902	D	900 227	Clipping error of white boxes detected. Action: Use MAP 0210: General problem resolution.
900-903	D	900 227	Color miscompare of color bars detected. Action: Use MAP 0210: General problem resolution.
900-904	D	900 227	Clipping error of white boxes detected. Action: Use MAP 0210: General problem resolution.
900-905	D	900 227	Color miscompare of white boxes detected. Action: Use MAP 0210: General problem resolution.



Service Request Number	SRN Src.	Failing Function Codes	Description and Action
900-906	D	900 227	Clipping error of white boxes detected. Action: Use MAP 0210: General problem resolution.
900-907	D	900 227	Color miscompare of white boxes detected. Action: Use MAP 0210: General problem resolution.
900-908	D	900 227	Clipping miscompare of white boxes detected. Action: Use MAP 0210: General problem resolution.
900-909	D	900 227	The Area fill test (color bars) failed. Action: Use MAP 0210: General problem resolution.
900-937	D	900 227	Red screen error. Action: Use MAP 0210: General problem resolution.
900-959	D	900 227	White screen error. Action: Use MAP 0210: General problem resolution.
900-961	D	900 227	Black screen error. Action: Use MAP 0210: General problem resolution.
900-9FF	D	900 227	The Area fill test (color bars) failed. Action: Use MAP 0210: General problem resolution.
900-A01	D	900 227	Color miscompare of horizontal top line. Action: Use MAP 0210: General problem resolution.
900-A02	D	900 227	Clipping error of horizontal top line. Action: Use MAP 0210: General problem resolution.
900-A03	D	900 227	Color miscompare of vertical right line. Action: Use MAP 0210: General problem resolution.
900-A04	D	900 227	Clipping error of vertical right line. Action: Use MAP 0210: General problem resolution.
900-A05	D	900 227	Color miscompare of horizontal bottom line. Action: Use MAP 0210: General problem resolution.
900-A06	D	900 227	Clipping error of horizontal bottom line. Action: Use MAP 0210: General problem resolution.
900-A07	D	900 227	Color miscompare of vertical left line. Action: Use MAP 0210: General problem resolution.
900-A08	D	900 227	Clipping error of vertical left line. Action: Use MAP 0210: General problem resolution.
900-A09	D	900 227	Color miscompare of horizontal center line. Action: Use MAP 0210: General problem resolution.
900-A0A	D	900 227	Clipping error of horizontal center line. Action: Use MAP 0210: General problem resolution.
900-A0B	D	900 227	Color miscompare of vertical center line. Action: Use MAP 0210: General problem resolution.
900-A0C	D	900 227	Clipping error of vertical center line. Action: Use MAP 0210: General problem resolution.
900-A0D	D	900 227	Reserved.
900-A0F	D	900 227	Reserved.
900-A10	D	900 227	Color miscompare of textured top line. Action: Use MAP 0210: General problem resolution.

900-001 through xxxxxxxx

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
900-A11	D	900 227	Clipping error of textured top line. Action: Use MAP 0210: General problem resolution.
900-A12	D	900 227	Line Drawing Function test failed. Action: Use MAP 0210: General problem resolution.
900-AFF	D	900 227	Line Drawing Function test failed. Action: Use MAP 0210: General problem resolution.
900-B01	D	900 227	Rectangle Area Color miscompare detected. Action: Use MAP 0210: General problem resolution.
900-B02	D	900 227	Rectangle Area Clip error detected. Action: Use MAP 0210: General problem resolution.
900-B03	D	900 227	Clipped Area Horizontal color miscompare (background line color wrong). Action: Use MAP 0210: General problem resolution.
900-B04	D	900 227	Clipped Area Horizontal clip miscompare (clip of background line wrong). Action: Use MAP 0210: General problem resolution.
900-B05	D	900 227	Clipped Area Vertical color miscompare (background line color wrong). Action: Use MAP 0210: General problem resolution.
900-B06	D	900 227	Clipped Area Vertical clip error (clip of background line wrong). Action: Use MAP 0210: General problem resolution.
900-B07	D	900 227	The clipping function test failed. Action: Use MAP 0210: General problem resolution.
900-BFF	D	900 227	The clipping function test failed. Action: Use MAP 0210: General problem resolution.
900-C01	D	900 227	The BIOS read failed. Action: Use MAP 0210: General problem resolution.
900-C02	D	900 227	The BIOS function test failed. Action: Use MAP 0210: General problem resolution.
900-CFF	D	900 227	The BIOS function test failed. Action: Use MAP 0210: General problem resolution.
900-D01	D	900 227	The HW cursor function test failed. Action: Use MAP 0210: General problem resolution.
900-DFE	D	900 227	The HW cursor function test failed. Action: Use MAP 0210: General problem resolution.
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.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
905-xxx			Vendor device problem. Refer to the service documentation for this device. Action: Use MAP 0210: General problem resolution.
908-001 to 908-010	D	908 C33 C48	Invalid function request or bad parameters passed. Action: Use MAP 0210: General problem resolution.
908-016 to 908-019	D	908	MCIC failed reading header. Action: Use MAP 0210: General problem resolution.
908-020	D	C33 908 C36	Error closing 7250 DD. Action: Use MAP 0210: General problem resolution.
908-111	D	908 C33 C36	Loader check sum error. Action: Use MAP 0210: General problem resolution.
908-112	D	C33 908 C36 C34	DMA failed to complete a transfer. Action: Use MAP 0210: General problem resolution.
908-113	D	908 C33 C36	Errors in loading ASCII registers. Action: Use MAP 0210: General problem resolution.
908-114 to 908-118	D	C33 908 C36	Errors in loading ASCII registers. Action: Use MAP 0210: General problem resolution.
908-120 to 908-150	D	908 C33 C36	DMA transfer or PFCA data error. Action: Use MAP 0210: General problem resolution.
908-151 to 908-158	D	908	SPAN board error. Action: Use MAP 0210: General problem resolution.
908-160	D	908 C33 System C36	7250 is not available. Action: Use MAP 0210: General problem resolution.
908-200 to 908-254	D	C33 908 C36	GPSS board failure. Action: Use MAP 0210: General problem resolution.
908-255	D	C33 C34 908 C48	CP NMI bus timeout interrupt error. Action: Use MAP 0210: General problem resolution.
908-256 to 908-454	D	C33 908 C36	GPSS board failure. Action: Use MAP 0210: General problem resolution.
908-455	D	C33 908 C34 C48	CP NMI bus timeout interrupt error. Action: Use MAP 0210: General problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
908-456 to 908-699	D	C33 908 C36	GPSS board failure. Action: Use MAP 0210: General problem resolution.
908-700 to 908-766	D	C34 C33 C48	BLT or RATTLER error. Action: Use MAP 0210: General problem resolution.
908-767 to 908-769	D	C35 C34 C44	VOO feature error. Action: Use MAP 0210: General problem resolution.
908-770 to 908-799	D	C34 C33 C48	RSS BIST failure. Action: Use MAP 0210: General problem resolution.
908-800	D	C46 D66	Base 16M CHAP0 SIMM bad. Action: Use MAP 0210: General problem resolution.
908-801	D	C45 D66	RSS base 12M CHAP0 SIMM bad (801). Action: Use MAP 0210: General problem resolution.
908-802	D	C46 D66	RSS AG 16M CHAP0 SIMM bad (802). Action: Use MAP 0210: General problem resolution.
908-803	D	C45 D66	RSS AG 12M CHAP0 SIMM bad (803). Action: Use MAP 0210: General problem resolution.
908-804	D	C47 D66	RSS TX 16M CHAP0 SIMM bad (804). Action: Use MAP 0210: General problem resolution.
908-805	D	C46 D66	Base 16M CHAP 1 SIMM bad (805). Action: Use MAP 0210: General problem resolution.
908-806	D	C45 D66	RSS base 12M CHAP1 SIMM bad (806). Action: Use MAP 0210: General problem resolution.
908-807	D	C46 D66	RSS AG 16M CHAP1 SIMM bad (807). Action: Use MAP 0210: General problem resolution.
908-808	D	C45 D66	RSS AG 12M CHAP1 SIMM bad (808). Action: Use MAP 0210: General problem resolution.
908-809	D	C47 D66	RSS TX 16M CHAP1 SIMM bad (809). Action: Use MAP 0210: General problem resolution.
908-810	D	C46 D66	RSS base 16M CHAP2 SIMM bad (810). Action: Use MAP 0210: General problem resolution.
908-811	D	C45 D66	RSS base 12M CHAP2 SIMM bad (811). Action: Use MAP 0210: General problem resolution.
908-812	D	C46 D66	RSS AG 16M CHAP2 SIMM bad (812). Action: Use MAP 0210: General problem resolution.
908-813	D	C45 D66	RSS AG 12M CHAP2 SIMM bad (813). Action: Use MAP 0210: General problem resolution.
908-814	D	C47 D66	RSS TX 16M CHAP2 SIMM bad (814). Action: Use MAP 0210: General problem resolution.
908-815	D	C46 D66	RSS base 16M CHAP3 SIMM bad (815). Action: Use MAP 0210: General problem resolution.
908-816	D	C45 D66	RSS base 12M CHAP3 SIMM bad (816). Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
908-817	D	C46 D66	RSS AG 16M CHAP3 SIMM bad (817). Action: Use MAP 0210: General problem resolution.
908-818	D	C45 D66	RSS AG 12M CHAP3 SIMM bad (818). Action: Use MAP 0210: General problem resolution.
908-819	D	C47 D66	RSS TX 16M CHAP3 SIMM bad (819). Action: Use MAP 0210: General problem resolution.
908-820	D	C46 D66	RSS base 16M CHAP4 SIMM bad (820). Action: Use MAP 0210: General problem resolution.
908-821	D	C45 D66	RSS base 12M CHAP4 SIMM bad (821). Action: Use MAP 0210: General problem resolution.
908-822	D	C46 D66	RSS AG 16M CHAP4 SIMM bad (822). Action: Use MAP 0210: General problem resolution.
908-823	D	C45 D66	RSS AG 12M CHAP4 SIMM bad (823). Action: Use MAP 0210: General problem resolution.
908-824	D	C47 D66	RSS TX 16M CHAP4 SIMM bad (824). Action: Use MAP 0210: General problem resolution.
908-825	D	C34	RSS error. Action: Use MAP 0210: General problem resolution.
908-830 to 908-870	D	C34	Multiple SIMMs failed. Action: Use MAP 0210: General problem resolution.
908-871 to 908-899	D	D66	RSS error. Action: Use MAP 0210: General problem resolution.
908-900 to 908-966	D	D66 C33 C48	RSS error. Action: Use MAP 0210: General problem resolution.
908-967 to 908-969	D	C35 D66 C48	VOO error. Action: Use MAP 0210: General problem resolution.
908-970 to 908-999	D	D66 C33 C48	RSS error. Action: Use MAP 0210: General problem resolution.
912-XXX to 913-XXX			See SCSI devices SRNs ssss-102 through ssss-640.
914-110	D	914	The <b>Reserve</b> command failed. Action: Use MAP 0210: General problem resolution.
914-120	D	914	The <b>Inquiry</b> command failed. Action: Use MAP 0210: General problem resolution.
914-130	D	914 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution.
914-135	D	914 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution.
914-140	D	914	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution.
914-150	D	914 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
914-160	D	914 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution.
914-170	D	914 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
914-180	D	914 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution.
914-185	D	914 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution.
914-190	D	914	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution.
914-200	D	914 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution.
914-210	D	914 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
914-220	D	914	The <b>Release</b> command failed. Action: Use MAP 0210: General problem resolution.
914-230	D	914	The <b>Request Sense</b> command failed. Action: Use MAP 0210: General problem resolution.
914-240	D	914	The <b>Openx</b> command failed. Action: Use MAP 0210: General problem resolution.
914-300	D	914 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
914-310	D	B88 914 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
914-320	G	914 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
914-411 to 914-423	D	914 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.
914-511 to 914-523	D	914 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
914-611 to 914-623	D	914 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
914-711 to 914-723	D	914 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.
915-110	D	915	The <b>Reserve</b> command is corrupted. Action: Use MAP 0210: General problem resolution.
915-120	D	915	The <b>Inquiry</b> command failed. Action: Use MAP 0210: General problem resolution.
915-130	D	915 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution.
915-135	D	915 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
915-140	D	915	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution.
915-150	D	915 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution.
915-160	D	915 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution.
915-169	D	915 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution.
915-170	D	915 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
915-180	D	915 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution.
915-185	D	915 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution.
915-190	D	915	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution.
915-200	D	915 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution.
915-210	D	915 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
915-220	D	915	The <b>Replace</b> command failed. Action: Use MAP 0210: General problem resolution.
915-230	D	915	The <b>Request Sense</b> command failed. Action: Use MAP 0210: General problem resolution.
915-240	D	915	The <b>Openx</b> command failed. Action: Use MAP 0210: General problem resolution.
915-300	D	915 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
915-310	D	B88 915 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
915-320	G	915 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
915-411 to 915-423	D	915 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.
915-511 to 915-523	D	915 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
915-611 to 915-623	D	915 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
915-711 to 915-723	D	915 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.
917-102	D	917 B88	An unrecoverable media error. Action: Use MAP 0210: General problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
917-104	D	917	The motor failed to restart. Action: Use MAP 0210: General problem resolution.
917-105	D	917	The drive did not become ready. Action: Use MAP 0210: General problem resolution.
917-106	D	917	The electronics card test failed. Action: Use MAP 0210: General problem resolution.
917-108	D	917	The bus test failed. Action: Use MAP 0210: General problem resolution.
917-110	D	917	The media format is corrupted. Action: Use MAP 0210: General problem resolution.
917-112	D	917	The diagnostic test failed. Action: Use MAP 0210: General problem resolution.
917-114	D	917	An unrecoverable hardware error. Action: Use MAP 0210: General problem resolution.
917-116	D		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	D	917	A write-protect error occurred. Action: Use MAP 0210: General problem resolution.
917-118	D	917 B88	A SCSI command timeout. Action: Use MAP 0210: General problem resolution.
917-120	D	917	A SCSI busy or command error. Action: Use MAP 0210: General problem resolution.
917-122	D	917	A SCSI reservation conflict error. Action: Use MAP 0210: General problem resolution.
917-124	D	917	A SCSI check condition error. Action: Use MAP 0210: General problem resolution.
917-126	D	917 B88	A software error was caused by a hardware failure. Action: Use MAP 0210: General problem resolution.
917-128	G	917	The error log analysis indicates a hardware failure. Action: Use MAP 0210: General problem resolution.
917-129	G	917	Error log analysis indicates a SCSI bus problem. Action: Use MAP 0210: General problem resolution.
917-130	G	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	D	917	A disk drive hardware error occurred. Action: Use MAP 0210: General problem resolution.
917-133	D	917	Use the subsystem guide to complete diagnostics. Action: Use MAP 0210: General problem resolution.
917-134	D	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
917-135	D	917 B88 software	The device failed to configure. Action: Use MAP 0210: General problem resolution.



Service Request Number	SRN Src.	Failing Function Codes	Description and Action
917-136	D	917	The certify operation failed. Action: Use MAP 0210: General problem resolution.
917-137	D	917 B88 190	Unit attention condition has occurred on the <b>Send Diagnostic</b> command. Action: Use MAP 0210: General problem resolution.
917-138	D	190	Error log indicates that the disk is operating at higher than recommended temperatures. Action: Use MAP 0210: General problem resolution.
917-139	D	917	Error configuring or opening device. Action: Use MAP 0210: General problem resolution.
917-640	G	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	D	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
921-102	D	921 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
921-103	D	921 821	The keyboard reset failed. Action: Use MAP 0210: General problem resolution.
921-104	D	921	Unknown keyboard. Action: Use MAP 0210: General problem resolution.
921-105	D	921 821	The keyboard light-on test failed. Action: Use MAP 0210: General problem resolution.
921-106	D	921 821	The keyboard light-off test failed. Action: Use MAP 0210: General problem resolution.
921-201	D	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
921-202	D	921 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
921-203	D	921 821	The read keyboard ID test failed. Action: Use MAP 0210: General problem resolution.
921-204	D	921	The keyboard layout ID test failed. Action: Use MAP 0210: General problem resolution.
921-205	D	921 821	The keyboard echo test failed. Action: Use MAP 0210: General problem resolution.
921-206	D	921 821	The select scan code set test failed. Action: Use MAP 0210: General problem resolution.
921-301	D	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
921-302	D	921 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
921-303	D	921	An error occurred in turning on the lamps. Action: Use MAP 0210: General problem resolution.
921-304	D	921	An error occurred in turning off the lamps. Action: Use MAP 0210: General problem resolution.
921-401	D	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
921-402	D	921 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
921-403	D	921	Unable to recognize the keyboard. Action: Use MAP 0210: General problem resolution.
921-404	D	921 821	The keyboard is failing. Action: Use MAP 0210: General problem resolution.
921-501	D	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
921-502	D	921 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
921-503	D	921	The auto-click cannot be disabled. Action: Use MAP 0210: General problem resolution.
921-504	D	921	The auto-click cannot be enabled. Action: Use MAP 0210: General problem resolution.
921-505	D	921	Unable to recognize the keyboard. Action: Use MAP 0210: General problem resolution.
921-601	D	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
921-602	D	921 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
921-603	D	921	The speaker test failed. Action: Use MAP 0210: General problem resolution.
921-701	D	921 821	Error configuring the device. Action: Use MAP 0210: General problem resolution.
921-901	G	821	The error log analysis indicates an adapter failure. Action: Use MAP 0210: General problem resolution.
921-902	G	921 821	The error log analysis indicates a device failure. Action: Use MAP 0210: General problem resolution.
921-903	G	921 821	The error log analysis indicates an unknown failure. Action: Use MAP 0210: General problem resolution.
922-101	D	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
922-102	D	922 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
922-103	D	922 821	The keyboard reset failed. Action: Use MAP 0210: General problem resolution.
922-104	D	922	Unknown keyboard. Action: Use MAP 0210: General problem resolution. Action: Use MAP 0210: General problem resolution.
922-105	D	922 821	The keyboard light-on test failed. Action: Use MAP 0210: General problem resolution.
922-106	D	922 821	The keyboard light-off test failed. Action: Use MAP 0210: General problem resolution.
922-201	D	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
922-202	D	922 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
922-203	D	922 821	The read keyboard id test failed. Action: Use MAP 0210: General problem resolution.
922-204	D	922	The keyboard layout id test failed. Action: Use MAP 0210: General problem resolution.
922-205	D	922 821	The keyboard echo test failed. Action: Use MAP 0210: General problem resolution.
922-206	D	922 821	The select scan code set test failed. Action: Use MAP 0210: General problem resolution.
922-301	D	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
922-302	D	922 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
922-303	D	922	An error occurred in turning on the lamps. Action: Use MAP 0210: General problem resolution.
922-304	D	922	An error occurred in turning off the lamps. Action: Use MAP 0210: General problem resolution.
922-401	D	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
922-402	D	922 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
922-403	D	922	The keyboard is failing. Action: Use MAP 0210: General problem resolution.
922-404	D	922 821	Unable to recognize the keyboard. Action: Use MAP 0210: General problem resolution.
922-501	D	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
922-502	D	922 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
922-503	D	921	The auto-click cannot be disabled. Action: Use MAP 0210: General problem resolution.
922-504	D	922	The auto-click cannot be enabled. Action: Use MAP 0210: General problem resolution.
922-505	D	922	Unable to recognize the keyboard. Action: Use MAP 0210: General problem resolution.
922-601	D	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
922-602	D	922 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
922-603	D	922	The speaker test failed. Action: Use MAP 0210: General problem resolution.
922-701	D	922 821	Error configuring the device. Action: Use MAP 0210: General problem resolution.
922-901	G	821	The error log indicates an adapter failed. Action: Use MAP 0210: General problem resolution.
922-902	G	922 821	The error log indicates a device failed. Action: Use MAP 0210: General problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
922-903	G	922 821	The error log analysis indicates an unknown failure. Action: Use MAP 0210: General problem resolution.
923-101	D	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
923-102	D	923 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
923-103	D	923 821	The keyboard reset failed. Action: Use MAP 0210: General problem resolution.
923-104	D	923	Unknown keyboard. Action: Use MAP 0210: General problem resolution.
923-105	D	923 821	The keyboard light-on test failed. Action: Use MAP 0210: General problem resolution.
923-106	D	923 821	The keyboard light-off test failed. Action: Use MAP 0210: General problem resolution.
923-201	D	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
923-202	D	923 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
923-203	D	923 821	The read keyboard id test failed. Action: Use MAP 0210: General problem resolution.
923-204	D	923	The keyboard layout id test failed. Action: Use MAP 0210: General problem resolution.
923-205	D	923 821	The keyboard echo test failed. Action: Use MAP 0210: General problem resolution.
923-206	D	923 821	The select scan code set test failed. Action: Use MAP 0210: General problem resolution.
923-301	D	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
923-302	D	923 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
923-303	D	923	An error occurred in turning on the lamps. Action: Use MAP 0210: General problem resolution.
923-304	D	923	An error occurred in turning off the lamps. Action: Use MAP 0210: General problem resolution.
923-401	D	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
923-402	D	923 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
923-403	D	923	The keyboard is failing. Action: Use MAP 0210: General problem resolution.
923-404	D	923 821	Unable to recognize the keyboard. Action: Use MAP 0210: General problem resolution.
923-501	D	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
923-502	D	923 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
923-503	D	923	The auto-click cannot be disabled. Action: Use MAP 0210: General problem resolution.
923-504	D	923	The auto-click cannot be enabled. Action: Use MAP 0210: General problem resolution.
923-505	D	923	Unable to recognize the keyboard. Action: Use MAP 0210: General problem resolution.
923-601	D	821	An unexpected adapter error occurred. Action: Use MAP 0210: General problem resolution.
923-602	D	923 821	An unexpected device or adapter error occurred. Action: Use MAP 0210: General problem resolution.
923-603	D	923	The speaker test failed. Action: Use MAP 0210: General problem resolution.
922-701	D	923 821	Error configuring the device. Action: Use MAP 0210: General problem resolution.
923-901	G	821	The error log indicates an adapter failed. Action: Use MAP 0210: General problem resolution.
923-902	G	923 821	The error log analysis indicates a device failure. Action: Use MAP 0210: General problem resolution.
923-903	G	923 821	The error log analysis indicates an unknown failure. Action: Use MAP 0210: General problem resolution.
925-111	D	925 823	An unexpected device error occurred. Action: Use MAP 0210: General problem resolution.
925-112	D	925 823	The device disable test failed. Action: Use MAP 0210: General problem resolution.
925-113	D	925	Could not reset the device. Action: Use MAP 0210: General problem resolution.
925-114	D	925 823	The <b>Read Status</b> command failed. Action: Use MAP 0210: General problem resolution.
925-115	D	925	The device test failed. Action: Use MAP 0210: General problem resolution.
925-116	D	925	Unknown Mouse type. Action: Use MAP 0210: General problem resolution.
925-117	D	925 823	Mouse wrap mode failed. Action: Use MAP 0210: General problem resolution.
925-118	D	925 823	Error setting mouse parameters. Action: Use MAP 0210: General problem resolution.
925-121 to 925-171	D	925	The device test failed. Action: Use MAP 0210: General problem resolution.
925-200	D	925 823	A software error was caused by a hardware failure. Action: Use MAP 0210: General problem resolution.
925-300	G	925	The error log analysis indicates a hardware failure. Action: Use MAP 0210: General problem resolution.
925-301	G	925 823	The error log analysis indicates a hardware failure. Action: Use MAP 0210: General problem resolution.
926-104	D	926 159	Input device cable is not attached. Action: Use MAP 0210: General problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
926-111	D	824	Adapter error. Action: Use MAP 0210: General problem resolution.
926-112 to 926-115	D	926 824	Device, adapter or tablet reset failed. Action: Use MAP 0210: General problem resolution.
926-116	D	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
926-119	D	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
926-121	D	824	Adapter error. Action: Use MAP 0210: General problem resolution.
926-131	D	824 926	Adapter error. Action: Use MAP 0210: General problem resolution.
926-132 to 926-135	D	926	Device or adapter error. Action: Use MAP 0210: General problem resolution.
926-141	D	824 926	Adapter error. Action: Use MAP 0210: General problem resolution.
926-142 to 926-161	D	926	Device or adapter error. Action: Use MAP 0210: General problem resolution.
926-162	D	159 926	Device or adapter error. Action: Use MAP 0210: General problem resolution.
926-163	D	159 926	Error in turning off input device LED. Action: Use MAP 0210: General problem resolution.
926-164	D	159 926	Error in turning off input device LED. Action: Use MAP 0210: General problem resolution.
926-165	D	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
926-166	D	188 926	Device or adapter error. Action: Use MAP 0210: General problem resolution.
926-167	D	188 926	Error in turning off input device LED. Action: Use MAP 0210: General problem resolution.
926-168	D	188 926	Error in turning on input device LED. Action: Use MAP 0210: General problem resolution.
926-169	D	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
926-172	D	159 926	Device or adapter error. Action: Use MAP 0210: General problem resolution.
926-173	D	159 926	Error in turning off input device switch. Action: Use MAP 0210: General problem resolution.
926-174	D	159 926	Error in turning on input device switch. Action: Use MAP 0210: General problem resolution.
926-175	D	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
926-176	D	188 926	Device or adapter error. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
926-177	D	188 926	Error in turning off input device switch. Action: Use MAP 0210: General problem resolution.
926-178	D	188 926	Error in turning on input device switch. Action: Use MAP 0210: General problem resolution.
926-179	D	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
926-181	D	824 926	Adapter error. Action: Use MAP 0210: General problem resolution.
926-182	D	159 926	Device or adapter error. Action: Use MAP 0210: General problem resolution.
926-183	D	159 926	Error in incremental data mode test. Action: Use MAP 0210: General problem resolution.
926-184	D	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
926-186	D	188 926	Device or adapter error. Action: Use MAP 0210: General problem resolution.
926-187	D	188 926	The incremental data mode test failed. Action: Use MAP 0210: General problem resolution.
926-188	D	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
926-203	D	926 824	Error in disabling tablet. Action: Use MAP 0210: General problem resolution.
926-204	D	926 824	Error in enabling tablet. Action: Use MAP 0210: General problem resolution.
926-207	D	926 824	Enabled/disabled test failed. Action: Use MAP 0210: General problem resolution.
926-208	D	926 824	Enabled/disabled test failed. Action: Use MAP 0210: General problem resolution.
926-221	D	824	Adapter error. Action: Use MAP 0210: General problem resolution.
926-222	D	926 824	Device or adapter error. Action: Use MAP 0210: General problem resolution.
926-225	D	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
926-229	D	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
926-271	D	926	Adapter error. Action: Use MAP 0210: General problem resolution.
926-272	D	159 926	Device or adapter error. Action: Use MAP 0210: General problem resolution.
926-273	D	159	Error in input device switch test. Action: Use MAP 0210: General problem resolution.
926-274	D	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
926-276	D	188 926	Device or adapter error. Action: Use MAP 0210: General problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
926-277	D	188 926	Error in input device switch test. Action: Use MAP 0210: General problem resolution.
926-278	D	188	Input device cable is not attached. Action: Use MAP 0210: General problem resolution.
926-281	D	824 926	Adapter error. Action: Use MAP 0210: General problem resolution.
926-282	D	159 926	Device or adapter error. Action: Use MAP 0210: General problem resolution.
926-283	D	159 926	Error in incremental data mode test. Action: Use MAP 0210: General problem resolution.
926-284	D	159	The input device cable is not attached.
926-286	D	188 926	Device or adapter error. Action: Use MAP 0210: General problem resolution.
926-287	D	188 926	Error in incremental data mode test. Action: Use MAP 0210: General problem resolution.
926-288	D	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-104	D	927 159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-111	D	824	Adapter error. Action: Use MAP 0210: General problem resolution.
927-112	D	927 824	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-113	D	927 824	Tablet reset failed. Action: Use MAP 0210: General problem resolution.
927-114	D	927 824	The read configuration test failed. Action: Use MAP 0210: General problem resolution.
927-115	D	927 824	The read status test failed. Action: Use MAP 0210: General problem resolution.
927-116	D	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-119	D	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-121	D	824	Adapter error. Action: Use MAP 0210: General problem resolution.
927-122	D	927 824	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-125	D	927 824	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-131	D	824 927	Adapter error. Action: Use MAP 0210: General problem resolution.
927-132	D	927	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-133	D	927	The set conversion mode test failed. Action: Use MAP 0210: General problem resolution.



Service Request Number	SRN Src.	Failing Function Codes	Description and Action
927-134	D	927	The set resolution test failed. Action: Use MAP 0210: General problem resolution.
927-135	D	927	The read status test failed. Action: Use MAP 0210: General problem resolution.
927-141	D	824 927	Adapter error. Action: Use MAP 0210: General problem resolution.
927-142	D	927	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-143	D	927	Error in tablet indicator. Action: Use MAP 0210: General problem resolution.
927-161	D	927	Adapter error. Action: Use MAP 0210: General problem resolution.
927-162	D	159 927	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-163	D	159 927	Error in turning off input device LED. Action: Use MAP 0210: General problem resolution.
927-164	D	159 927	Error in turning on input device LED. Action: Use MAP 0210: General problem resolution.
927-165	D	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-166	D	188 927	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-167	D	188 927	Error in turning off input device LED. Action: Use MAP 0210: General problem resolution.
927-168	D	188 927	Error in turning on input device LED. Action: Use MAP 0210: General problem resolution.
927-169	D	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-171	D	927	Adapter error. Action: Use MAP 0210: General problem resolution.
927-172	D	159 927	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-173	D	159 927	Error in turning off input device switch. Action: Use MAP 0210: General problem resolution.
927-174	D	159 927	Error in turning on input device switch. Action: Use MAP 0210: General problem resolution.
927-175	D	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-176	D	188 927	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-177	D	188 927	Error in turning off input device switch. Action: Use MAP 0210: General problem resolution.
927-178	D	188 927	Error in turning on input device switch. Action: Use MAP 0210: General problem resolution.
927-179	D	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
927-181	D	824 927	Adapter error. Action: Use MAP 0210: General problem resolution.
927-182	D	159 927	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-183	D	159 927	Error in incremental data mode test. Action: Use MAP 0210: General problem resolution.
927-184	D	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-186	D	188 927	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-187	D	188 927	Error in incremental data mode test. Action: Use MAP 0210: General problem resolution.
927-188	D	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-203	D	927 824	Error in disabling tablet. Action: Use MAP 0210: General problem resolution.
927-204	D	927 824	Error in enabling tablet. Action: Use MAP 0210: General problem resolution.
927-221	D	824	Adapter error. Action: Use MAP 0210: General problem resolution.
927-222	D	927 824	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-225	D	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-229	D	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-271	D	927	Adapter error. Action: Use MAP 0210: General problem resolution.
927-272	D	159 927	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-273	D	159 927	Error in input device switch test. Action: Use MAP 0210: General problem resolution.
927-274	D	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-276	D	188 927	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-277	D	188 927	Error in input device switch test. Action: Use MAP 0210: General problem resolution.
927-278	D	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-281	D	824 927	Adapter error. Action: Use MAP 0210: General problem resolution.
927-282	D	159 927	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-283	D	159 927	Error in incremental data mode test. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
927-284	D	159	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
927-286	D	188 927	Device or adapter error. Action: Use MAP 0210: General problem resolution.
927-287	D	188 927	Error in incremental data mode test. Action: Use MAP 0210: General problem resolution.
927-288	D	188	The input device cable is not attached. Action: Use MAP 0210: General problem resolution.
929-201	D	929	Failed to register input ring. Action: Use MAP 0210: General problem resolution.
929-202	D	929	Unable to read event from the device. Action: Use MAP 0210: General problem resolution.
929-203	D	929	Unable to communicate with the device. Action: Use MAP 0210: General problem resolution.
929-204	D	929	Cannot set the device granularity. Action: Use MAP 0210: General problem resolution.
929-210	D	929	Device or adapter failure. Action: Use MAP 0210: General problem resolution.
929-212	D	929	Cannot set the device to HIGH granularity. Action: Use MAP 0210: General problem resolution.
929-213	D	929	Cannot set the device to LOW granularity. Action: Use MAP 0210: General problem resolution.
929-299	D	software 929	Error unconfiguring the device. Action: Use MAP 0210: General problem resolution.
929-301	D	software 929	Error configuring the device. Action: Use MAP 0210: General problem resolution.
930-201	D	930	Device or adapter failure. Action: Use MAP 0210: General problem resolution.
930-210	G	930	Unable to turn the lights on. Action: Use MAP 0210: General problem resolution.
930-220	G	930	Unable to turn the lights off hardware failure. Action: Use MAP 0210: General problem resolution.
930-230	D	930	Unable to turn the lights off. Action: Use MAP 0210: General problem resolution.
930-241	D	930	Unable to turn a single light-on. Action: Use MAP 0210: General problem resolution.
930-242	D	930	Device or adapter failure. Action: Use MAP 0210: General problem resolution.
930-243	D	930	Device or adapter failure. Action: Use MAP 0210: General problem resolution.
930-261	D	930	Cable test failed. Action: Use MAP 0210: General problem resolution.
930-262	D	930	Cable test failed. Action: Use MAP 0210: General problem resolution.
930-299	D	software 930	Error unconfiguring the device. Action: Use MAP 0210: General problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
930-301	D	software 930	Error configuring the device. Action: Use MAP 0210: General problem resolution.
935-101 to 935-102	D	935 828	The diskette-drive select or deselect test failed. Action: Use MAP 0210: General problem resolution.
935-103 to 935-107	D	935 828	The diskette failed. Action: Use MAP 0210: General problem resolution.
935-108	D	935	The diskette read test failed. Action: Use MAP 0210: General problem resolution.
935-109 to 935-110	D	935 828	The read/write on the diskette drive failed. Action: Use MAP 0210: General problem resolution.
935-111 to 935-114	D	935	A diskette drive test failed. Action: Use MAP 0210: General problem resolution.
935-115 to 935-121	D	935 828	The diskette drive test failed. Action: Use MAP 0210: General problem resolution.
935-122	G	935 828	The error log analysis indicates a hardware failure. Action: Use MAP 0210: General problem resolution.
935-123	G	935	The error log analysis indicates a hardware failure. Action: Use MAP 0210: General problem resolution.
935-124	D	935 software	Unable to configure the device. Action: Use MAP 0210: General problem resolution.
938-101	D	938 227	HIPPI Adapter test failed. Action: Use MAP 0210: General problem resolution.
938-104	D	938 227	HIPPI Adapter test failed. Action: Use MAP 0210: General problem resolution.
938-105	D	938 227	HIPPI Adapter test failed. Action: Use MAP 0210: General problem resolution.
938-108	D	938 227	HIPPI Adapter test failed. Action: Use MAP 0210: General problem resolution.
938-109	D	938 227	HIPPI Adapter test failed. Action: Use MAP 0210: General problem resolution.
938-10A	D	938 227	HIPPI Adapter test failed. Action: Use MAP 0210: General problem resolution.
938-10B	D	938 227	HIPPI Adapter test failed. Action: Use MAP 0210: General problem resolution.
938-10C	D	Wrap- Plug 938	HIPPI Adapter test failed. Action: Use MAP 0210: General problem resolution.
938-124	D	938 227	HIPPI Adapter test failed. Action: Use MAP 0210: General problem resolution.
938-600	D	938 227 software	HIPPI Adapter test failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
938-800	D	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	D	946 227	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-114	D	946	The register verification test failed. Action: Use MAP 0210: General problem resolution.
946-121	D	946 227	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-122	D	946 227	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
946-123	D	946 227	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-131	D	946	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-132	D	946 227	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
946-133	D	946	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-161	D	252	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-162	D	252	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
946-163	D	252	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-171	D	259	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-172	D	259	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
946-173	D	259	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-181	D	261	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-182	D	261	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
946-183	D	261	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-271	D	946 259	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-272	D	946 259	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
946-273	D	946 259	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-281	D	946 261	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-282	D	946 261	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
946-283	D	946 261	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-321	D	946	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-322	D	946	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
946-323	D	946	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-331	D	946	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-332	D	946	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
946-333	D	946	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-371	D	946	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-372	D	946	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
946-373	D	946	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-381	D	946	Cannot run the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-382	D	946	The data wrap communications test failed. Action: Use MAP 0210: General problem resolution.
946-383	D	946	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-481	D	D56	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.
946-482	D	D56	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
946-483	D	D56	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-581	D	946 D56	Could not do the test because the device driver detected a hardware error. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
946-582	D	946 D56	The data wrap communication test failed. Action: Use MAP 0210: General problem resolution.
946-583	D	946 D56	The modem control line test failed. Action: Use MAP 0210: General problem resolution.
946-901 to 946-920	D	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	D	946 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
946-922 to 946-924	D	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	D	946 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
946-926 to 946-943	D	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	C	192	Power supply problem. Action: Use the service documentation for the portable disk.
950-101	F	2C9 153	PCI bus was not found. Action: Rerun diagnostics in Advanced Mode for additional problem isolation.
950-102	C	2C9	PCI bus was not found. Action: Use MAP 0291: Missing device or bus problem resolution.
950-103	C	2C9	Multiple adapters on bus were not found. Action: Use MAP 0210: General problem resolution.
950-105	C	2C9 221	PCI bus was not found. Action: Use MAP 0291: Missing device or bus problem resolution.
950-106	C	2C9	PCI bus was not found. Action: Use MAP 0291: Missing device or bus problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
950-107	C	153 165	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-108	C	190 199 153 165	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-200	C	152	Power supply problem. Action: Use the service documentation for the external device.
950-201	C	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	C	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	C	440 B88 190 199 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-441	C	440 B88 190 199 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-442	C	440 B88 190 199 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-443	C	440 B88 190 199 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-500	C	152	Power supply problem. Action: Use the service documentation for the system unit, rack, or drawer that contains the missing device.
950-56D	C	58D B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-58D	C	58D B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.



Service Request Number	SRN Src.	Failing Function Codes	Description and Action
950-61D	C	61D B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-638	C	638 B88 277 190 152	The SCSI device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-639	C	639 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-63A	C	63A B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-63B	C	63B B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-63C	C	63C B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-63D	C	63D B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-63E	C	63E B88 277 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-63F	C	63F B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-640	C	640 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-664	C	664 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-678	C	678 B88 190 152	The SCSI Tape Drive is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
950-679	C	679 B88 190 152	The SCSI Disk Drive is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-681	C	681 2E7 190 152	The SCSI Disk Drive is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-700	C	700 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-701	C	701 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-702	C	702 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-703	C	703 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-704	C	704 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-705	C	705 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-706	C	706 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-707	C	707 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-721	C	721 B88 190 152	An unknown drive type is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-722	C	722 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
950-723	C	723 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-724	C	724 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-734	C	734 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-741	C	741 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-772	C	772 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-773	C	773 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-789	C	789 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-792	C	792 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-793	C	793 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-804	C	807 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-807	C	804 B88 190 152	The device is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-912	C	912 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
950-914	C	914 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-915	C	915 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-917	C	917 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-918	C	918 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-935	C	935 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-951	C	951 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-952	C	952 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-953	C	953 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-954	C	954 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-955	C	955 B88 190 141 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-956	C	956 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-959	C	959 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
950-960	C	960 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-964	C	964 B88 190 152	The SCSI Tape Drive is not responding. Action: Use MAP 0291: Missing device or bus problem resolution.
950-968	C	968 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-970	C	970 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-971	C	971 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-972	C	972 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-974	C	974 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-981	C	981 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-984	C	984 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-986	C	986 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-987	C	987 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-989	C	989 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
950-990	C	990 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-991	C	991 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-994	C	994 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-995	C	995 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-998	C	998 B88 190 152	Device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution.
950-2522	C	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	C	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	C	2524	Missing options resolution for PCI-X Dual Channel Ultra320 SCSI Adapter. Action: Use MAP 0291: Missing device or bus problem resolution.
950-2525	C	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	C	2527 221	Missing options resolution for PCI-X Dual Channel Ultra320 SCSI Adapter. Action: Use MAP 0291: Missing device or bus problem resolution.
950-xxxx	C	xxxx B88 190 152	The device does not respond. Action: Use MAP 0291: Missing device or bus problem resolution. <b>Note:</b> 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.
951-xxx to 957-xxx			See SCSI devices SRNs ssss-102 through ssss-640.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
959-102	D	959	Non-recoverable medium error. Action: Use MAP 0210: General problem resolution.
959-104	D	959	Motor failed to restart. Action: Use MAP 0210: General problem resolution.
959-105	D	959	The drive did not become ready. Action: Use MAP 0210: General problem resolution.
959-106	D	959	Electronics card failure. Action: Use MAP 0210: General problem resolution.
959-108	D	959	Bus failure. Action: Use MAP 0210: General problem resolution.
959-110	D	959	The media format is corrupted. Action: Use MAP 0210: General problem resolution.
959-112	D	959	Diagnostic failure. Action: Use MAP 0210: General problem resolution.
959-114	D	959	Non-recoverable hardware error. Action: Use MAP 0210: General problem resolution.
959-116	D		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	D	959	write-protect error. Action: Use MAP 0210: General problem resolution.
959-118	D	959 B88	SCSI command timeout. Action: Use MAP 0210: General problem resolution.
959-120	D	959	SCSI busy/command error. Action: Use MAP 0210: General problem resolution.
959-122	D	959	SCSI reservation conflict error. Action: Use MAP 0210: General problem resolution.
959-124	D	959	SCSI check condition error. Action: Use MAP 0210: General problem resolution.
959-126	D	959 B88	Software error caused by hardware failure. Action: Use MAP 0210: General problem resolution.
959-128	G	959	Error log analysis indicates hardware failure. Action: Use MAP 0210: General problem resolution.
959-129	G	190 959 B88 software	Error log analysis indicates a SCSI bus problem. Action: Use MAP 0210: General problem resolution.
959-130	G	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	D	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
959-135	D	959 B88 software	The device failed to configure. Action: Use MAP 0210: General problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
959-136	D	959	The certify operation failed. Action: Use MAP 0210: General problem resolution.
959-137	D	959 B88 190	Unit attention condition has occurred on the <b>Send Diagnostic</b> command. Action: Use MAP 0210: General problem resolution.
960-xxx			See SCSI devices SRNs ssss-102 through ssss-640.
964-101	D	964	Timeout while attempting to communicate with SCSI device. Action: Use MAP 0210: General problem resolution.
964-102	D	964	The SCSI device indicates busy. Action: Use MAP 0210: General problem resolution.
964-103	D	964	The SCSI device indicates a reservation conflict. Action: Use MAP 0210: General problem resolution.
964-104	D	964	The SCSI device indicates a check condition. Action: Use MAP 0210: General problem resolution.
964-105	D	964	An error is detected in request sense data. Action: Use MAP 0210: General problem resolution.
964-107	D	964	Sense data from the SCSI drive has unexpected data. Action: Use MAP 0210: General problem resolution.
964-110	D	964	The <b>Reserve</b> command failed. Action: Use MAP 0210: General problem resolution.
964-111	D	964	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution.
964-112	D	964	The write-protect sensor test failed. Action: Use MAP 0210: General problem resolution.
964-113	D	964	Invalid condition from drive after a request sense. Action: Use MAP 0210: General problem resolution.
964-114	D	964	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution.
964-120	D	964	The <b>Inquiry</b> command failed. Action: Use MAP 0210: General problem resolution.
964-130	D	964 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution.
964-134	D	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
964-135	D	964 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution.
964-140	D	964	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution.
964-150	D	964 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution.
964-160	D	964 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution.
964-161	D	964 B88	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution.



Service Request Number	SRN Src.	Failing Function Codes	Description and Action
964-163	D	964 B88	Invalid condition from the drive after a request sense. Action: Use MAP 0210: General problem resolution.
964-164	D	964 B88	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution.
964-165	D	964 B88 276	Write, Read and Compare Test failed. Action: Use MAP 0210: General problem resolution.
964-166	D	964 B88 software	Unable to configure the device. Action: Use MAP 0210: General problem resolution.
964-167	D	964 B88	An unexpected SCSI error occurred. Action: Use MAP 0210: General problem resolution.
964-168	D	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
964-169	D	964 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution.
964-170	D	964 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
964-180	D	964 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution.
964-185	D	964 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution.
964-190	D	964	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution.
964-200	D	964 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution.
964-201	G	964 B88	Error diagnosed from error log analysis. Action: Use MAP 0210: General problem resolution.
964-210	D	964 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
964-211	D	964 B88	The device open failed. Action: Use MAP 0210: General problem resolution.
964-220	D	964	The <b>Release</b> command failed. Action: Use MAP 0210: General problem resolution.
964-230	D	964	The <b>Request Sense</b> command failed. Action: Use MAP 0210: General problem resolution.
964-240	D	964	The <b>Openx</b> command failed. Action: Use MAP 0210: General problem resolution.
964-260	D	964	The device configuration failed. Action: Use MAP 0210: General problem resolution.
964-261	D	964	The device open failed. Action: Use MAP 0210: General problem resolution.
964-300	D	964 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
964-310	D	B88 964 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
964-320	G	964 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
964-411 to 964-423	D	964 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.
964-511 to 964-523	D	964 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
964-611 to 964-623	D	964 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
964-711 to 964-723	D	964 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.
966-101	D	966	Error in non-interactive tests. Action: Use MAP 0210: General problem resolution.
966-103	D	966	The test pattern failed. Action: Use MAP 0210: General problem resolution.
966-201	D	966 190	Error in non-interactive tests on card. Action: Use MAP 0210: General problem resolution.
966-203	D	966 190	The test pattern failed. Action: Use MAP 0210: General problem resolution.
966-205	D	966 190	Test pattern failed. Action: Use MAP 0210: General problem resolution.
966-207	D	966 190	Test pattern failed. Action: Use MAP 0210: General problem resolution.
966-208	D	190	Error in non-interactive test on card. Action: Use MAP 0210: General problem resolution.
966-209	D	190	Test pattern failed. Action: Use MAP 0210: General problem resolution.
966-211	D	190	Test pattern failed. Action: Use MAP 0210: General problem resolution.
966-213	D	190	Test pattern failed. Action: Use MAP 0210: General problem resolution.
966-304	D	E22 725 966	Video error in interactive test. Action: Use MAP 0210: General problem resolution.
966-306	D	E23 725 966	Audio error in interactive test. Action: Use MAP 0210: General problem resolution.
966-310	D	E22 725	Video error in interactive test. Action: Use MAP 0210: General problem resolution.
966-312	D	E22 725	Audio error in interactive test. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
966-400	D	152 190 E24 166	Error in non-interactive tests. Action: Use MAP 0210: General problem resolution.
966-402	D	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	J	970	Tape drive indicates an error.
970-099	J	970 B88	Tape drive not found.
970-101	D	970	Timeout while attempting to communicate with SCSI device. Action: Use MAP 0210: General problem resolution.
970-102	D	970	The SCSI device indicates busy. Action: Use MAP 0210: General problem resolution.
970-103	D	970	The SCSI device indicates a reservation conflict. Action: Use MAP 0210: General problem resolution.
970-104	D	970	The SCSI device indicates a check condition. Action: Use MAP 0210: General problem resolution.
970-105	D	970	An error is detected in request sense data. Action: Use MAP 0210: General problem resolution.
970-107	D	970	Sense data from the SCSI drive has unexpected data. Action: Use MAP 0210: General problem resolution.
970-110	D	970	The <b>Reserve</b> command failed. Action: Use MAP 0210: General problem resolution.
970-111	D	970	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution.
970-112	D	970	The write-protect sensor test failed. Action: Use MAP 0210: General problem resolution.
970-113	D	970	Invalid condition from drive after a request sense. Action: Use MAP 0210: General problem resolution.
970-114	D	970	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution.
970-120	D	970	The <b>Inquiry</b> command failed. Action: Use MAP 0210: General problem resolution.
970-130	D	970 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution.
970-134	D	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
970-135	D	970 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution.
970-140	D	970	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution.
970-150	D	970 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
970-160	D	970 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution.
970-161	D	970 B88	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution.
970-163	D	970 B88	Invalid condition from the drive after a request sense. Action: Use MAP 0210: General problem resolution.
970-164	D	970 B88	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution.
970-165	D	970 B88 276	Write, Read and Compare Test failed. Action: Use MAP 0210: General problem resolution.
970-166	D	970 B88 software	Unable to configure the device. Action: Use MAP 0210: General problem resolution.
970-167	D	970 B88	An unexpected SCSI error occurred. Action: Use MAP 0210: General problem resolution.
970-168	D	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
970-169	D	970 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution.
970-170	D	970 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution.
970-180	D	970 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution.
970-185	D	970 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution.
970-190	D	970	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution.
970-200	D	970 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution.
970-201	G	970 B88	Error diagnosed from error log analysis. Action: Use MAP 0210: General problem resolution.
970-210	D	970 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution.
970-211	D	970 B88	The device open failed. Action: Use MAP 0210: General problem resolution.
970-220	D	970	The <b>Release</b> command failed. Action: Use MAP 0210: General problem resolution.
970-230	D	970	The <b>Request Sense</b> command failed. Action: Use MAP 0210: General problem resolution.
970-240	D	970	The <b>Openx</b> command failed. Action: Use MAP 0210: General problem resolution.
970-260	D	970	The device configuration failed. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
970-261	D	970	The device open failed. Action: Use MAP 0210: General problem resolution.
970-300	D	970 software	The device configuration failed. Action: Use MAP 0210: General problem resolution.
970-310	D	B88 970 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution.
970-320	G	970 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution.
970-411 to 970-423	D	970 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution.
970-511 to 970-523	D	970 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution.
970-57D	D	57D	The resource does not respond. Action: Use MAP 0210: General problem resolution.
970-611 to 970-623	D	970 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution.
970-711 to 970-723	D	970 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution.
971-101	D	971	Timeout while attempting to communicate with SCSI device. Action: Use MAP 0210: General problem resolution.
971-102	D	971	The SCSI device indicates busy. Action: Use MAP 0210: General problem resolution.
971-103	D	971	The SCSI device is indicating a reservation conflict. Action: Use MAP 0210: General problem resolution.
971-104	D	971	The SCSI device indicates a check condition. Action: Use MAP 0210: General problem resolution.
971-105	D	971	Sense data from the SCSI device shows an error. Action: Use MAP 0210: General problem resolution.
971-107	D	971	The SCSI drive returned unexpected sense data. Action: Use MAP 0210: General problem resolution.
971-110	D	971	The <b>Reserve</b> command failed. Action: Use MAP 0210: General problem resolution.
971-111	D	971	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution.
971-112	D	971	The write-protect sensor test failed. Action: Use MAP 0210: General problem resolution.
971-113	D	971	Invalid condition from the drive after a request sense. Action: Use MAP 0210: General problem resolution.
971-114	D	971	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
971-120	D	971	The <b>Inquiry</b> command failed. Action: Use MAP 0210: General problem resolution.
971-130	D	971 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution.
971-135	D	971 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution.
971-140	D	971	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution.
971-150	D	971 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution
971-160	D	971 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution
971-161	D	971 B88	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution
971-163	D	971 B88	Invalid condition from the drive after a request sense. Action: Use MAP 0210: General problem resolution
971-164	D	971 B88	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution
971-165	D	971 B88 276	Write, Read and Compare Test failed. Action: Use MAP 0210: General problem resolution
971-166	D	971 B88 software	Unable to configure the device. Action: Use MAP 0210: General problem resolution
971-167	D	971 B88	An unexpected SCSI error occurred. Action: Use MAP 0210: General problem resolution
971-168	D	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution
971-169	D	971 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution
971-170	D	971 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution
971-180	D	971 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution
971-185	D	971 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution
971-190	D	971	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution
971-200	D	971 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution
971-201	G	971 B88	An error is diagnosed from the error log analysis. Action: Use MAP 0210: General problem resolution
971-210	D	971 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
971-211	D	971 B88	The device open test failed. Action: Use MAP 0210: General problem resolution
971-220	D	971	The <b>Release</b> command failed. Action: Use MAP 0210: General problem resolution
971-230	D	971	The <b>Request Sense</b> command failed. Action: Use MAP 0210: General problem resolution
971-240	D	971	The <b>Openx</b> command failed. Action: Use MAP 0210: General problem resolution
971-260	D	971	The device configuration failed. Action: Use MAP 0210: General problem resolution
971-261	D	971	The device open test failed. Action: Use MAP 0210: General problem resolution
971-300	D	971 software	The device configuration failed. Action: Use MAP 0210: General problem resolution
971-310	D	B88 971 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution
971-320	G	971 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution
971-411 to 971-423	D	971 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution
971-511 to 971-523	D	971 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution
971-611 to 971-623	D	971 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution
971-711 to 971-723	D	971 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution
972-101	D	972	Timeout while attempting to communicate with SCSI device. Action: Use MAP 0210: General problem resolution
972-102	D	972	The SCSI device indicates busy. Action: Use MAP 0210: General problem resolution
972-103	D	972	The SCSI device indicates a reservation conflict. Action: Use MAP 0210: General problem resolution
972-104	D	972	The SCSI device indicates a check condition. Action: Use MAP 0210: General problem resolution
972-105	D	972	An error is detected in request sense data. Action: Use MAP 0210: General problem resolution
972-107	D	972	The drive has returned unexpected sense data. Action: Use MAP 0210: General problem resolution
972-110	D	972	The <b>Reserve</b> command failed. Action: Use MAP 0210: General problem resolution
972-111	D	972	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
972-112	D	972	The write-protect sensor test failed. Action: Use MAP 0210: General problem resolution
972-113	D	972	Invalid condition from the drive after a request sense. Action: Use MAP 0210: General problem resolution
972-114	D	972	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution
972-120	D	972	The <b>Inquiry</b> command failed. Action: Use MAP 0210: General problem resolution
972-130	D	972 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution
972-135	D	972 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution
972-140	D	972	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution
972-150	D	972 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution
972-160	D	972 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution
972-161	D	972 B88	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution
972-163	D	972 B88	Invalid condition from the drive after a request sense. Action: Use MAP 0210: General problem resolution
972-164	D	972 B88 276	Timeout while attempting communication with SCSI device. Action: Use MAP 0210: General problem resolution
972-165	D	972 B88 276	Write, Read and Compare Test failed. Action: Use MAP 0210: General problem resolution
972-166	D	972 B88 software	Unable to configure the device. Action: Use MAP 0210: General problem resolution
972-167	D	972 B88	An unexpected SCSI error occurred. Action: Use MAP 0210: General problem resolution
972-168	D	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution
972-169	D	972 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution
972-170	D	972 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution
972-180	D	972 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution
972-185	D	972 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution
972-190	D	972	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution



Service Request Number	SRN Src.	Failing Function Codes	Description and Action
972-200	D	972 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution
972-201	G	972 B88	An error is diagnosed from the error log analysis. Action: Use MAP 0210: General problem resolution
972-210	D	972 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution
972-211	D	972 B88	The device open test failed. Action: Use MAP 0210: General problem resolution
972-220	D	972	The <b>Release</b> command failed. Action: Use MAP 0210: General problem resolution
972-230	D	972	The <b>Request Sense</b> command failed. Action: Use MAP 0210: General problem resolution
972-240	D	972	The <b>Openx</b> command failed. Action: Use MAP 0210: General problem resolution
972-260	D	972	The device configuration test failed. Action: Use MAP 0210: General problem resolution
972-261	D	972	The device open test failed. Action: Use MAP 0210: General problem resolution
972-300	D	972 software	The device configuration failed. Action: Use MAP 0210: General problem resolution
972-310	D	B88 972 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution
972-320	G	972 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution
972-411 to 972-423	D	972 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution
972-511 to 972-523	D	972 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution
972-611 to 972-623	D	972 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution
972-711 to 972-723	D	972 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution
973-110	D	973	The <b>Reserve</b> command failed. Action: Use MAP 0210: General problem resolution
973-120	D	973	The <b>Inquiry</b> command failed. Action: Use MAP 0210: General problem resolution
973-130	D	973 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution
973-135	D	973 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution
973-140	D	973	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
973-150	D	973 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution
973-160	D	973 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution
973-169	D	973 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution
973-170	D	973 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution
973-180	D	973 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution
973-185	D	973 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution
973-190	D	973	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution
973-200	D	973 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution
973-210	D	973 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution
973-220	D	973	The <b>Release</b> command failed. Action: Use MAP 0210: General problem resolution
973-230	D	973	The <b>Request Sense</b> command failed. Action: Use MAP 0210: General problem resolution
973-240	D	973	The <b>Openx</b> command failed. Action: Use MAP 0210: General problem resolution
973-300	D	973 software	The device configuration failed. Action: Use MAP 0210: General problem resolution
973-310	D	B88 973 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution
973-320	G	973 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution
973-411 to 973-423	D	973 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution
973-511 to 973-523	D	973 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution
973-611 to 973-623	D	973 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution
973-711 to 973-723	D	973 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution
974-111	D	974 B88	Unable to reserve device. Action: Use MAP 0210: General problem resolution
974-112	D	974 B88	Unable to do configuration. Action: Use MAP 0210: General problem resolution

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
974-113	D	974 B88	Unable to open the device driver. Action: Use MAP 0210: General problem resolution
974-121	D	974	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
974-122	D	974	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
974-123	D	974	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
974-125	D	974 B88	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
974-126	D	974	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
974-127	D	974	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
974-128	D	974	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
974-129	D	974	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
974-150	D	Test-Disc 974	A media error was detected. Action: Use MAP 0210: General problem resolution
974-151	D	974 D88	A command timeout was detected. Action: Use MAP 0210: General problem resolution
974-152	D	974	A command reservation conflict was detected. Action: Use MAP 0210: General problem resolution
974-162	D	974	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
974-171	D	974	Unable to reserve device. Action: Use MAP 0210: General problem resolution
974-172	D	974	Unable to do configuration. Action: Use MAP 0210: General problem resolution
974-173	D	974	Unable to open device driver. Action: Use MAP 0210: General problem resolution
974-175	D	974	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
974-198	D	974 B88	Undefined error detected. Action: Use MAP 0210: General problem resolution
974-199	D	974	Undefined error detected. Action: Use MAP 0210: General problem resolution
974-211	D	974	The LED test failed. Action: Use MAP 0210: General problem resolution
974-281	D	974	No tone during audio test. Action: Use MAP 0210: General problem resolution
974-301	G	974	Errors found during ELA. Action: Use MAP 0210: General problem resolution
974-302	G	974 B88	Errors log analysis indicates hardware failure. Action: Use MAP 0210: General problem resolution

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Service Request Number	SRN Src.	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.
987-111	D	987 B88	Unable to reserve device. Action: Use MAP 0210: General problem resolution
987-112	D	987 B88	Unable to do configuration. Action: Use MAP 0210: General problem resolution
987-113	D	987 B88	Unable to open the device driver. Action: Use MAP 0210: General problem resolution
987-121	D	987	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
987-122	D	987	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
987-123	D	987	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
987-125	D	987 B88	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
987-126	D	987	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
987-127	D	987	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
987-128	D	987	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
987-129	D	987	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
987-150	D	Test-Disc 987	A media error was detected. Action: Use MAP 0210: General problem resolution
987-151	D	987 B88	A command timeout was detected. Action: Use MAP 0210: General problem resolution
987-152	D	987	A command reservation conflict was detected. Action: Use MAP 0210: General problem resolution
987-162	D	987	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
987-171	D	987	Unable to reserve device. Action: Use MAP 0210: General problem resolution
987-172	D	987	Unable to do configuration. Action: Use MAP 0210: General problem resolution
987-173	D	987	Unable to open device driver. Action: Use MAP 0210: General problem resolution
987-175	D	987	The CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution
987-198	D	987 B88	Undefined error detected. Action: Use MAP 0210: General problem resolution
987-199	D	987	Undefined error detected. Action: Use MAP 0210: General problem resolution

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
987-211	D	987	The LED test failed. Action: Use MAP 0210: General problem resolution
987-281	D	987	No tone during audio test. Action: Use MAP 0210: General problem resolution
987-301	G	987	Errors found during ELA. Action: Use MAP 0210: General problem resolution
987-302	G	987 B88	Errors found during ELA. Action: Use MAP 0210: General problem resolution
989-xxx			See SCSI devices SRNs ssss-102 through ssss-640.
980-xxx			See SCSI devices SRNs ssss-102 through ssss-640.
991-101	D	991	Timeout while attempting to communicate with SCSI device. Action: Use MAP 0210: General problem resolution
991-102	D	991	The SCSI device indicates busy. Action: Use MAP 0210: General problem resolution
991-103	D	991	The SCSI device is indicating a reservation conflict. Action: Use MAP 0210: General problem resolution
991-104	D	991	The SCSI device indicates a check condition. Action: Use MAP 0210: General problem resolution
991-105	D	991	Sense data from the SCSI device shows an error. Action: Use MAP 0210: General problem resolution
991-107	D	991	The SCSI drive returned unexpected sense data. Action: Use MAP 0210: General problem resolution
991-110	D	991	The <b>Reserve</b> command failed. Action: Use MAP 0210: General problem resolution
991-111	D	991	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution
991-112	D	991	The write-protect sensor test failed. Action: Use MAP 0210: General problem resolution
991-113	D	991	Invalid condition from the drive after a request sense. Action: Use MAP 0210: General problem resolution
991-114	D	991	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution
991-120	D	991	The <b>Inquiry</b> command failed. Action: Use MAP 0210: General problem resolution
991-130	D	991 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution
991-135	D	991 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution
991-140	D	991	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution
991-150	D	991 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution
991-160	D	991 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
991-161	D	991 B88	Invalid condition from the drive after a reserve. Action: Use MAP 0210: General problem resolution
991-163	D	991 B88	Invalid condition from the drive after a request sense. Action: Use MAP 0210: General problem resolution
991-164	D	991 B88	Timeout while attempting to communicate with the SCSI device. Action: Use MAP 0210: General problem resolution
991-165	D	991 B88 276	Write, Read and Compare Test failed. Action: Use MAP 0210: General problem resolution
991-166	D	991 B88 software	The device failed to configure. Action: Use MAP 0210: General problem resolution
991-167	D	991 B88	An unexpected SCSI error occurred. Action: Use MAP 0210: General problem resolution
991-168	D	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution
991-169	D	991 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution
991-170	D	991 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution
991-180	D	991 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution
991-185	D	991 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution
991-190	D	991	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution
991-200	D	991 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution
991-201	G	991 B88	An error is diagnosed from the error log analysis. Action: Use MAP 0210: General problem resolution
991-210	D	991 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution
991-211	D	991 B88	The device open test failed. Action: Use MAP 0210: General problem resolution
991-220	D	991	The <b>Release</b> command failed. Action: Use MAP 0210: General problem resolution
991-230	D	991	The <b>Request Sense</b> command failed. Action: Use MAP 0210: General problem resolution
991-240	D	991	The <b>Openx</b> command failed. Action: Use MAP 0210: General problem resolution
991-260	D	991	The device configuration failed. Action: Use MAP 0210: General problem resolution
991-261	D	991	The device open test failed. Action: Use MAP 0210: General problem resolution

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
991-300	D	991 software	The device configuration failed. Action: Use MAP 0210: General problem resolution
991-310	D	B88 991 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution
991-320	G	991 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution
991-411 to 991-423	D	991 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution
991-511 to 991-523	D	991 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution
991-611 to 991-623	D	991 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution
991-711 to 991-723	D	991 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution
994-110	D	994	The <b>Reserve</b> command failed. Action: Use MAP 0210: General problem resolution
994-120	D	994	The <b>Inquiry</b> command failed. Action: Use MAP 0210: General problem resolution
994-130	D	994 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution
994-135	D	994 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution
994-140	D	994	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution
994-150	D	994 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution
994-160	D	994 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution
994-169	D	994 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution
994-170	D	994 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution
994-180	D	994 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution
994-185	D	994 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution
994-190	D	994	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution
994-200	D	994 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution
994-210	D	994 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
994-220	D	994	The <b>Release</b> command failed. Action: Use MAP 0210: General problem resolution
994-230	D	994	The <b>Request Sense</b> command failed. Action: Use MAP 0210: General problem resolution
994-240	D	994	The <b>Openx</b> command failed. Action: Use MAP 0210: General problem resolution
994-300	D	994 software	The device configuration failed. Action: Use MAP 0210: General problem resolution
994-310	D	B88 994 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution
994-320	G	994 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution
994-411 to 994-423	D	994 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution
994-511 to 994-523	D	994 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution
994-611 to 994-623	D	994 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution
994-711 to 994-723	D	994 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution
995-110	D	995	The <b>Reserve</b> command failed. Action: Use MAP 0210: General problem resolution
995-120	D	995	The <b>Inquiry</b> command failed. Action: Use MAP 0210: General problem resolution
995-130	D	995 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution
995-135	D	995 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution
995-140	D	995	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution
995-150	D	995 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution
995-160	D	995 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution
995-169	D	995 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution
995-170	D	995 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution
995-180	D	995 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution
995-185	D	995 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution



Service Request Number	SRN Src.	Failing Function Codes	Description and Action
995-190	D	995	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution
995-200	D	995 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution
995-210	D	995 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution
995-220	D	995	The <b>Release</b> command failed. Action: Use MAP 0210: General problem resolution
995-230	D	995	The <b>Request Sense</b> command failed. Action: Use MAP 0210: General problem resolution
995-240	D	995	The <b>Openx</b> command failed. Action: Use MAP 0210: General problem resolution
995-300	D	995 software	The device configuration failed. Action: Use MAP 0210: General problem resolution
995-310	D	B88 995 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution
995-320	G	995 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution
995-411 to 995-423	D	995 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution
995-511 to 995-523	D	995 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution
995-611 to 995-623	D	995 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution
995-711 to 995-723	D	995 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution
998-110	D	998	The <b>Reserve</b> command failed. Action: Use MAP 0210: General problem resolution
998-120	D	998	The <b>Inquiry</b> command failed. Action: Use MAP 0210: General problem resolution
998-130	D	998 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution
998-135	D	998 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution
998-140	D	998	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution
998-150	D	998 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution
998-160	D	998 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution
998-169	D	998 media	The <b>Send Diagnostic</b> command failed. Action: Use MAP 0210: General problem resolution

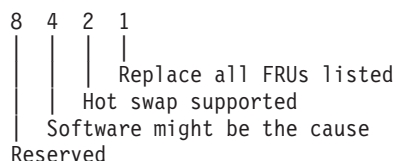
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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
998-170	D	998 B88 media	The Read, Write and Compare test failed. Action: Use MAP 0210: General problem resolution
998-180	D	998 media	The <b>Load</b> command failed. Action: Use MAP 0210: General problem resolution
998-185	D	998 media	The <b>Unload</b> command failed. Action: Use MAP 0210: General problem resolution
998-190	D	998	The <b>Mode Select</b> command failed. Action: Use MAP 0210: General problem resolution
998-200	D	998 media	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution
998-210	D	998 B88	The device configuration failed. Action: Use MAP 0210: General problem resolution
998-220	D	998	The <b>Release</b> command failed. Action: Use MAP 0210: General problem resolution
998-230	D	998	The <b>Request Sense</b> command failed. Action: Use MAP 0210: General problem resolution
998-240	D	995	The <b>Openx</b> command failed. Action: Use MAP 0210: General problem resolution
998-300	D	995 software	The device configuration failed. Action: Use MAP 0210: General problem resolution
998-310	D	B88 995 software	SCSI adapter configuration failed. Action: Use MAP 0210: General problem resolution
998-320	G	995 media	Error log analysis indicates a failure. Action: Use MAP 0210: General problem resolution
998-411 to 998-423	D	998 B88 software	A reservation conflict occurred. Action: Use MAP 0210: General problem resolution
998-511 to 998-523	D	998 B88	The drive returned bad or non-extended sense data. Action: Use MAP 0210: General problem resolution
998-611 to 998-623	D	998 B88 software	An adapter or bus I/O error occurred. Action: Use MAP 0210: General problem resolution
998-711 to 998-723	D	998 B88 software	A device timeout error occurred. Action: Use MAP 0210: General problem resolution
999-xxx series	D	999	A 7137 or 3514 disk array subsystem problem is indicated. Action: Use 7137 or 3514 documentation.
9CC-1xx	G		I/O Error on PCI bus. Action: Refer to the Bus SRN to FRU Reference Table in the system unit's service guide. <b>Note:</b> xx represents the last 2 digits of the SRN.
9CC-xxx	G	xxx 2C9	I/O Bus Data, Address Parity Error, or Time-out error. <b>Note:</b> xxx represents the last 3 digits of the SRN. Action: Use MAP 0210: General problem resolution

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
xxxxxx	G	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	G	none	High level platform error. Action: Refer to the system service information.

## SRNs A00-(x)xxx through A1D-(x)xxx

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 (-).

Service Request Number	SRN Src.	Failing Function Code	Description and Action
A22-xxxx	C	xxxx	Defective Multipath I/O Device. <b>Note:</b> 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	C		Multipath I/O Problem Resolution. Action: Use MAP 0285: Multipath I/O (MPIO) problem resolution.
A24-000	G	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	G	Use xxx 227	Spurious interrupts have exceeded threshold. Action: Use MAP 0210: General problem resolution.

## SRNs 2520-101 through 25D0-108

Replace FRU parts in the order by which the "Failing Function Codes" are listed.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
2520-101	D	221	Enhanced error handling failure on the bus. Action: Use MAP 0210: General problem resolution.
2520-102	D	293	Enhanced error handling failure on a PCI-PCI Bridge. Action: Use MAP 0210: General problem resolution.
2520-103	D	2520 221	Enhanced error handling failure on the adapter. Action: Use MAP 0210: General problem resolution.
2520-212	D	2520	FIFO empty bit set. Action: Use MAP 0210: General problem resolution.

## 2520-101 through 25D0-108

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
2520-213	D	2520	FIFO empty bit clear. Action: Use MAP 0210: General problem resolution.
2520-214	D	2520	FIFO full bit set. Action: Use MAP 0210: General problem resolution.
2520-215	D	2520	FIFO full bit clear. Action: Use MAP 0210: General problem resolution.
2520-216	D	2520	FIFO data miscompare. Action: Use MAP 0210: General problem resolution.
2520-217	D	2520	SCSI FIFO data miscompare. Action: Use MAP 0210: General problem resolution.
2520-218	D	2520	SCSI FIFO underflow. Action: Use MAP 0210: General problem resolution.
2520-219	D		SCSI parity error. Action: Go to MAP 0050: SCSI Bus Problems.
2520-220	D	2520	SCSI FIFO flags error. Action: Use MAP 0210: General problem resolution.
2520-221	D	2520 293	Miscompare during the write/read of configuration register. Action: Use MAP 0210: General problem resolution.
2520-222	D	2520	Error during the write/read of the memory register. Action: Use MAP 0210: General problem resolution.
2520-223	D		Miscompare during the write/read of the memory I/O register. Action: Use MAP 0210: General problem resolution.
2520-224	D	2520 221	SCSI configuration read or write error. Action: Use MAP 0210: General problem resolution.
2520-226	D	2520	SCSI wrap or PTC error. Action: Use MAP 0210: General problem resolution.
2520-227	D	2520 221	SCSI adapter interrupt test failure. Action: Use MAP 0210: General problem resolution.
2520-230	D		Arbitration test failed. Action: Go to MAP 0050: SCSI Bus Problems.
2520-231	D		Function could not complete. Action: Go to MAP 0050: SCSI Bus Problems.
2520-232	D		SCSI bus data miscompare. Action: Go to MAP 0050: SCSI Bus Problems.
2520-240	D		No terminal power. Action: Go to MAP 0050: SCSI Bus Problems.
2520-242	D		SCSI bus error. Action: Go to MAP 0050: SCSI Bus Problems.
2520-301	D	2520 221	Configuration open failed for parent bus. Action: Use MAP 0210: General problem resolution.
2520-801	G		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.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
2520-802	G		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	G		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	D	221	Enhanced error handling failure on the bus. Action: Use MAP 0210: General problem resolution.
2521-102	D	293	Enhanced error handling failure on a PCI-PCI Bridge. Action: Use MAP 0210: General problem resolution.
2521-103	D	2521 221	Enhanced error handling failure on the adapter. Action: Use MAP 0210: General problem resolution.
2521-227	D	2521 221	SCSI adapter test failure. Action: Use MAP 0210: General problem resolution.
2521-701	G	2521	Error log analysis indicates a PCI SCSI adapter failure. Action: Use MAP 0210: General problem resolution.
2521-801	G		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	G		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.
2521-803	G		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	D	2522	Adapter configuration error. Action: Use MAP 0210: General problem resolution.
2522-701	G	2522	Error Log Analysis indicates adapter hardware error. Action: Use MAP 0210: General problem resolution.
2522-702	G		Error Log Analysis indicates SCSI device error. Action: Go to MAP 0050: SCSI Bus Problems.
2522-703	G	2522 221	Error Log Analysis indicates hardware system error due to EEH reset problem. Action: Use MAP 0210: General problem resolution.

## 2520-101 through 25D0-108

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
2522-704	G	2522 221	Error Log Analysis indicates hardware system error from EEH event. Action: Use MAP 0210: General problem resolution.
2522-705	G	2522 221	Error Log Analysis indicates PCI bus error. Action: Use MAP 0210: General problem resolution.
2522-706	G	2522	Error Log Analysis indicates adapter hardware error. Action: Use MAP 0210: General problem resolution.
2522-707	G	2522 221	Error Log Analysis indicates PCI bus error. Action: Use MAP 0210: General problem resolution.
2522-708	G	2522	Error Log Analysis indicates adapter register timeout error. Action: Use MAP 0210: General problem resolution.
2522-710	G	2522	Permanent adapter failure. Action: Use MAP 0210: General problem resolution.
2522-711	G	2522	Adapter failure. Action: Use MAP 0210: General problem resolution.
2522-712	G	2522	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> .
2522-713	G	2522	Adapter failure. Action: Use MAP 0210: General problem resolution.
2522-714	G	2522	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
2522-715	G	2522	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
2522-716	G	2522 293	PCI bus error detected by enhanced error handling. Action: Use MAP 0210: General problem resolution.
2522-717	G	2522 293	PCI bus error detected by adapter. Action: Use MAP 0210: General problem resolution.
2522-718	G	2522 293	Temporary PCI bus error detected by adapter. Action: Use MAP 0210: General problem resolution.
2522-719	G	2522	The device bus termination power lost or not detected. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, use 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> .
2522-720	G	2522	Adapter detected device bus failure. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, use 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	SRN Src.	Failing Function Codes	Description and Action
2522-721	G	2522	Temporary adapter detected device bus failure. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, use 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	G	2522	Device bus interface problem. Action: Use MAP 0210: General problem resolution.
2522-723	G	2522	Device bus interface problem. Action: Go to MAP 0054: PCI-X SCSI Bus Problems.
2522-724	G	2522	Temporary device bus interface problem. Action: Use MAP 0210: General problem resolution.
2522-725	G	2522	Temporary device bus interface problem. Action: Go to MAP 0054: PCI-X SCSI Bus Problems.
2523-101	D	2523	Adapter configuration error. Action: Use MAP 0210: General problem resolution.
2523-710	G	2523	Permanent adapter failure. Action: Use MAP 0210: General problem resolution.
2523-711	G	2523	Adapter failure. Action: Use MAP 0210: General problem resolution.
2523-712	G	2523	Adapter device bus configuration error. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, use 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> .
2523-713	G	2523	Adapter failure. Action: Use MAP 0210: General problem resolution.
2523-714	G	2523	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
2523-715	G	2523	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
2523-716	G	2523 293	PCI bus error detected by enhanced error handling. Action: Use MAP 0210: General problem resolution.
2523-717	G	2523 293	PCI bus error detected by adapter. Action: Use MAP 0210: General problem resolution.
2523-718	G	2523 293	Temporary PCI bus error detected by adapter. Action: Use MAP 0210: General problem resolution.
2523-719	G	2523	Device bus termination power lost or not detected. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, use 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> .
2523-720	G	2523	Adapter detected device bus failure. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, use 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> .

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
2523-721	G	2523	Temporary adapter detected device bus failure. Action: For a PCI-X Dual Channel Ultra320 SCSI adapter, use 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	G	2523	Device bus interface problem. Action: Use MAP 0210: General problem resolution.
2523-723	G	2523	Device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems.
2523-724	G	2523	Temporary device bus interface problem. Action: Use MAP 0210: General problem resolution.
2523-725	G	2523	Temporary device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems.
2523-102E	G	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	G	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	G	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	G	2523	Storage subsystem configuration error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-3100	G	2523	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	G	2523	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	G	2523	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	G	2523	Disk bus interface error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-7001	G	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	G	2526	Permanent cache battery pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .



Service Request Number	SRN Src.	Failing Function Codes	Description and Action
2523-8009	G	2526	Impending cache battery pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9000	G	2523	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	G	2523	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	G	2523	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	G	2523	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	G	2523	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	G	2523	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	G	2523	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	G	2523	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	G	2523	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> .
2523-9023	G	2523	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	G	2523	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	G	2523	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	G	2523	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> .

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
2523-9027	G	2523	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	G	2523	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	G	2523	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	G	2523	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	G	2523	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	G	2523	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	G	2523	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	G	2523	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	G	2523	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	G	2523	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> .
2523-9060	G	2523	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	G	2523	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	G	2523	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	SRN Src.	Failing Function Codes	Description and Action
2523-9063	G	2523	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> .
2523-9081	G	2523	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	G	2523	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	G	2523	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	G	2523	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	G	2523	Disk requires formatting before use. Action: Use MAP 3034 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-9200	G	2523	Identify disk to be replaced. Action: Use MAP 3036 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2523-FFF3	G	2523	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> .
2523-FFF4	G	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	G	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	G	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	G	2523	Temporary disk bus error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2524-101	D	2524	Adapter configuration error. Action: Use MAP 0210: General problem resolution.
2524-701	G	2524	Error Log Analysis indicates adapter hardware error. Action: Use MAP 0210: General problem resolution.
2524-702	G		Error Log Analysis indicates SCSI device error. Action: Use MAP 0050: SCSI Bus Problems.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
2524-703	G	2524 221	Error Log Analysis indicates hardware system error due to EEH reset problem. Action: Use MAP 0210: General problem resolution.
2524-704	G	2524 221	Error Log Analysis indicates hardware system error from EEH event. Action: Use MAP 0210: General problem resolution.
2524-705	G	2524 221	Error Log Analysis indicates PCI bus error. Action: Use MAP 0210: General problem resolution.
2524-706	G	2524	Error Log Analysis indicates adapter hardware error. Action: Use MAP 0210: General problem resolution.
2524-707	G	2524 221	Error Log Analysis indicates PCI bus error. Action: Use MAP 0210: General problem resolution.
2524-708	G	2524	Error Log Analysis indicates adapter register timeout error. Action: Use MAP 0210: General problem resolution.
2527-101	D	2527	Adapter configuration error Action: Use MAP 0210: General problem resolution.
2527-710	G	2527	Permanent adapter failure. Action: Use MAP 0210: General problem resolution.
2527-711	G	2527	Adapter failure. Action: Use MAP 0210: General problem resolution.
2527-712	G	2527	Adapter device bus configuration error. Action: If you are servicing a PCI-X Dual Channel Ultra320 SCSI Adapter, go to MAP 0050: SCSI Bus Problems.  If you are servicing a PCI-X Ultra320 SCSI RAID, go to MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-713	G	2527	Adapter failure. Action: Use MAP 0210: General problem resolution.
2527-714	G	2527	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
2527-715	G	2527	Temporary adapter failure. Action: Use MAP 0210: General problem resolution.
2527-716	G	2527 293	PCI bus error detected by EEH. Action: Use MAP 0210: General problem resolution.
2527-717	G	2527 293	PCI bus error detected by adapter. Action: Use MAP 0210: General problem resolution.
2527-718	G	2527 293	Temporary PCI bus error detected by adapter. Action: Use MAP 0210: General problem resolution.
2527-719	G		Device bus termination power lost or not detected. Action: If you are servicing a PCI-X Dual Channel Ultra320 SCSI Adapter, go to MAP 0050: SCSI Bus Problems.  If you are servicing a PCI-X Ultra320 SCSI RAID, go to MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
2527-720	G		Adapter detected device bus failure. Action: If you are servicing a PCI-X Dual Channel Ultra320 SCSI Adapter, go to MAP 0050: SCSI Bus Problems.  If you are servicing a PCI-X Ultra320 SCSI RAID, go to MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-721	G		Temporary adapter detected device bus failure. Action: If you are servicing a PCI-X Dual Channel Ultra320 SCSI Adapter, go to MAP 0050: SCSI Bus Problems.  If you are servicing a PCI-X Ultra320 SCSI RAID, go to MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-722	G	2527	Description: Device bus interface problem. Action: Use MAP 0210: General problem resolution.
2527-723	G		Description: Device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems.
2527-724	G	2527	Description: Temporary device bus interface problem. Action: Use MAP 0210: General problem resolution.
2527-725	G	2527	Temporary device bus interface problem. Action: Use MAP 0054: PCI-X SCSI Bus Problems.
2527-102E	G	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	G	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	G	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	G	2527	Storage subsystem configuration error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-3100	G	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	G	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	G	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	G	2527	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	SRN Src.	Failing Function Codes	Description and Action
2527-7001	G	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	G	BAT	Permanent Cache Battery Pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-8009	G	BAT	Impending Cache Battery Pack failure. Action: Use MAP 3000 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9000	G		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	G		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	G		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	G		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	G		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	G		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	G		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	G		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> .
2527-9022	G		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	G		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	G		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> .

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
2527-9025	G		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	G		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	G		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	G		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	G		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	G		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	G		Automatic reconstruction initiated for Disk Array. Action: Use MAP 3010 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-9041	G		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> .
2527-9050	G		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> .
2527-9051	G		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	G		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	G		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	G		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> .

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
2527-9061	G		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	G		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	G		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> .
2527-9081	G		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	G		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	G		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	G		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	G		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	G		Identify disk to be replaced. Action: Use MAP 3036 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-FFF3	G		Disk media format bad. Action: Use MAP 3035 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2527-FFF4	G	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	G	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	G		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	G	722	Temporary disk bus error. Action: Use MAP 3050 in the <i>PCI-X SCSI RAID Controller Reference Guide for AIX</i> .
2530-101	D	221	Enhanced Error Handling failure on bus. Action: Use MAP 0210: General problem resolution.



Service Request Number	SRN Src.	Failing Function Codes	Description and Action
2530-102	D	221	Enhanced Error Handling logic failure. Action: Use MAP 0210: General problem resolution.
2530-103	D	2530	Enhanced Error Handling failure on adapter. Action: Use MAP 0210: General problem resolution.
2530-104	D	2530	<b>Port</b> command test failure. Action: Use MAP 0210: General problem resolution.
2530-105	D	2530	<b>CU</b> command test failure. Action: Use MAP 0210: General problem resolution.
2530-106	D	2530	External wrap test failure. Action: Use MAP 0210: General problem resolution.
2530-107	D	2530	A non-critical error occurred. Action: Replace the adapter during scheduled maintenance. An encryption authentication problem has been detected.
2530-201	D	2530 221	EEPROM test failure. Action: Use MAP 0210: General problem resolution.
2530-202	D	2530 221	Internal wrap test failure. Action: Use MAP 0210: General problem resolution.
2530-701	G	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	G	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	G	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	G	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	D	2531	VPD test failure Action: Use MAP 0210: General problem resolution.
2531-102	D	2531	Flash ROM test Action: Use MAP 0210: General problem resolution.
2531-103	D	2531	Internal wrap test failure Action: Use MAP 0210: General problem resolution.
2531-104	D	2531	External wrap test failure. Action: Use MAP 0210: General problem resolution.
2531-105	D	2531	External wrap test with checksum IP offload failure. Action: Use MAP 0210: General problem resolution.
2531-106	D	2531	External wrap test with checksum TCP offload failure. Action: Use MAP 0210: General problem resolution.
2531-201	D	2531 221	Registers test failure Action: Use MAP 0210: General problem resolution.
2531-202	D	2531 221	Enhanced Error Handling Failure while testing adapter Action: Use MAP 0210: General problem resolution.
2531-203	D	2531 221	Enhanced Error Handling Failure on bus Action: Use MAP 0210: General problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
2531-204	F	cable network	Link test failure, Wrap test ok Action: Use MAP 0210: General problem resolution.
2531-301	F	2531 cable network	Link test failure without wrap test Action: Use MAP 0210: General problem resolution.
2531-701	G	2531	Failure to initialize due to a self-test failure Action: Use MAP 0210: General problem resolution.
2531-702	G	2531	Failure to initialize due to a problem while reading the EEPROM on the adapter Action: Use MAP 0210: General problem resolution.
2531-703	G	2531	Transmit error due to timeout. Action: Use MAP 0210: General problem resolution.
2532-101	D	2532	VPD test failure Action: Use MAP 0210: General problem resolution.
2532-102	D	2532	Flash ROM test Action: Use MAP 0210: General problem resolution.
2532-103	D	2532	Internal wrap test failure Action: Use MAP 0210: General problem resolution.
2532-104	D	2532	External wrap test failure Action: Use MAP 0210: General problem resolution.
2532-105	D	2532	External wrap test with checksum IP offload failure Action: Use MAP 0210: General problem resolution.
2532-106	D	2532	External wrap test with checksum TCP offload failure Action: Use MAP 0210: General problem resolution.
2532-201	D	2532 221	Registers test failure Action: Use MAP 0210: General problem resolution.
2532-202	D	2532 221	Enhanced Error Handling Failure while testing adapter Action: Use MAP 0210: General problem resolution.
2532-203	D	2532 221	Enhanced Error Handling Failure on bus Action: Use MAP 0210: General problem resolution.
2532-204	F	cable network	Link test failure, Wrap test ok Action: Use MAP 0210: General problem resolution.
2532-301	F	2532 cable network	Link test failure without wrap test Action: Use MAP 0210: General problem resolution.
2532-701	G	2532	Failure to initialize due to a self-test failure. Action: Use MAP 0210: General problem resolution.
2532-702	G	2532	Failure to initialize due to a problem while reading the EEPROM on the adapter. Action: Use MAP 0210: General problem resolution.
2532-703	G	2532	Transmit error due to timeout. Action: Use MAP 0210: General problem resolution.
254E-201	D	254E 221	Adapter configuration error. Action: Use MAP 0210: General problem resolution.
254E-601	G	254E	Error log analysis indicates adapter failure. Action: Use MAP 0210: General problem resolution.
254E-602	G	254E	Error log analysis indicates an error attention condition. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
254E-603	G	254E	Error log analysis indicates that the microcode could not be loaded on the adapter. Action: Use MAP 0210: General problem resolution.
254E-604	G	254E	Error log analysis indicates a permanent adapter failure. Action: Use MAP 0210: General problem resolution.
254E-605	G	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	G	254E	Error log analysis indicates adapter failure. Action: Use MAP 0210: General problem resolution.
254E-701	G	254E 221	Error log analysis indicates permanent adapter failure. Action: Use MAP 0210: General problem resolution.
254E-702	G	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	D	Software C	Software error. Action: Use MAP 0210: General problem resolution.
2550-002	D	2550 Software	Adapter failure. Action: Use MAP 0210: General problem resolution.
2550-003	D	2550 227	Adapter failure. Action: Use MAP 0210: General problem resolution.
2550-004	D	2550 Monitor/ Cable	Adapter or display failure. Action: Use MAP 0210: General problem resolution.
2550-005	D	2550 227 Monitor/ Cable	Adapter or display failure. Action: Use MAP 0210: General problem resolution.
2551-001	D	Software 2551	Software error. Action: Use MAP 0210: General problem resolution.
2551-002	D	2551 Software	Adapter failure. Action: Use MAP 0210: General problem resolution.
2551-003	D	2551 227	Adapter failure. Action: Use MAP 0210: General problem resolution.
2551-004	D	2551 Monitor/ Cable	Adapter or display failure. Action: Use MAP 0210: General problem resolution.
2551-005	D	2551 227 Monitor/ Cable	Adapter or display failure. Action: Use MAP 0210: General problem resolution.
2562-601	G	2562	Error Log Analysis indicates adapter function failure. Action: Use MAP 0210: General problem resolution.
2564-101	G		Diagnostics indicates adapter configuration failure. Action: Use MAP 0210: General problem resolution.
2564-601	G	2564	Error log analysis indicates adapter function failure. Action: Use MAP 0210: General problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
2564-602	G	2564	Diagnostics indicates adapter configuration failure. Action: Use MAP 0210: General problem resolution.
2566-101 2566-102	D	2566 2D02	The diskette-drive selected or deselected failed. Action: Use MAP 0210: General problem resolution.
2566-103 2566-107	D	2566 2D02	The diskette failed. Action: Use MAP 0210: General problem resolution.
2566-108	D	2566	The diskette read test failed. Action: Use MAP 0210: General problem resolution.
2566-109 2566-110	D	2566 2D02	The read/write on the diskette drive failed. Action: Use MAP 0210: General problem resolution.
2566-111 2566-114	D	2566	A diskette drive test failed. Action: Use MAP 0210: General problem resolution.
2566-115 2566-121	D	2566 2D02	The diskette drive test failed. Action: Use MAP 0210: General problem resolution.
2566-124	D	2566	Unable to configure the device. Action: Use MAP 0210: General problem resolution.
2566-125	D	2566 2D02	Diagnostics was unable to detect the device. Action: Use MAP 0210: General problem resolution.
2566-601	G	2566	ELA detected a non-recoverable Hardware failure on diskette drive. Action: Use MAP 0210: General problem resolution.
2566-701	G	2566 2D02	ELA detected a Hardware failure on diskette drive. Action: Use MAP 0210: General problem resolution.
2566-702	G	2566 2D02	ELA detected a communication failure to the diskette drive. Action: Use MAP 0210: General problem resolution.
2568-101	D	2568	Unable to open device driver. Action: Use MAP 0210: General problem resolution.
2568-201	D	2D02	Unable to configure the adapter. Action: Use MAP 0210: General problem resolution.
2568-202	D	2568 2D02 Media	Unable to configure the device. Action: Use MAP 0210: General problem resolution.
2568-203	D	2D02	Unable to open device driver. Action: Use MAP 0210: General problem resolution.
2568-204	D	Media 2568	The Inquire command failed. Action: Use MAP 0210: General problem resolution.
2568-205	D	2568 Media	The Read Sense Data command failed. Action: Use MAP 0210: General problem resolution.
2568-206	D	2568	The Test Unit Ready command failed. Action: Use MAP 0210: General problem resolution.
2568-207	D	Media 2568	A media error was detected Action: Use MAP 0210: General problem resolution.
2568-208	D	2568 Media	The CD-ROM Play Audio command failed. Action: Use MAP 0210: General problem resolution.
2568-209	D	2568	No tone during audio test. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
2568-210	D	2568	The Prevent Media Removal or Allow media removal command failed. Action: Use MAP 0210: General problem resolution.
2568-211	D	2568	CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
2568-212	D	2568 Media	The Write/Read/Compare Test Failed. Action: Use MAP 0210: General problem resolution.
2568-701	G	2568	ELA indicates Drive Hardware failure. Action: Use MAP 0210: General problem resolution.
2568-702	G	2568	ELA indicates Drive Hardware failure. Action: Use MAP 0210: General problem resolution.
2570-101	D	2570	DES test failed. Action: Use MAP 0210: General problem resolution.
2570-102	D	2570	RSA test failed. Action: Use MAP 0210: General problem resolution.
2570-103	D	2570	MAC test failed. Action: Use MAP 0210: General problem resolution.
2570-104	D	2570	DES and SHA test failed. Action: Use MAP 0210: General problem resolution.
2570-105	D	2570	DES to SHA test failed. Action: Use MAP 0210: General problem resolution.
2570-106	D	221	Enhanced Error Handling Circuitry failure. Action: Use MAP 0210: General problem resolution.
2570-107	D	221	Enhanced Error Handling failure on bus. Action: Use MAP 0210: General problem resolution.
2570-108	D	221	Enhanced Error Handling failure on adapter. Action: Use MAP 0210: General problem resolution.
2570-201	D	2570 221	Register test failed. Action: Use MAP 0210: General problem resolution.
2570-601	G	2570	ELA indicates hardware failure has occurred. Action: Use MAP 0210: General problem resolution.
2570-602	G	2570	ELA indicates hardware timeout has occurred. Action: Use MAP 0210: General problem resolution.
2570-603	G	2570	ELA indicates hardware failure and timeout has occurred. Action: Use MAP 0210: General problem resolution.
2571-101	D	2571	Enhanced Error Handling Failure on Bus Action: Use MAP 0210: General problem resolution.
2571-102	D	2571	Adapter I/O Register Test Failure Action: Use MAP 0210: General problem resolution.
2571-103	D	2571	Timer Test Failure Action: Use MAP 0210: General problem resolution.
2571-104	D	2571	Interrupt Test Failure Action: Use MAP 0210: General problem resolution.
2571-105	D	2571	Internal Loop Back Test Failure Action: Use MAP 0210: General problem resolution.
2571-106	D	2571	External Loop Back Test Failure Action: Use MAP 0210: General problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
2571-201	D	2571 221	PCI COnfiguration I/O Test Failure Action: Use MAP 0210: General problem resolution.
2571-601	G	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	G	2571	Error log analysis indicates that this device has failed due to a hardware error. Action: Use MAP 0210: General problem resolution.
2590-101	D	2590	Unable to open CD-ROM device driver. Action: Use MAP 0210: General problem resolution.
2590-201	D	25A0	Unable to configure adapter. Action: Use MAP 0210: General problem resolution.
2590-202	D	2590 25A0 media	Unable to configure the device. Action: Use MAP 0210: General problem resolution.
2590-203	D	25A0	Unable to open IDE adapter driver. Action: Use MAP 0210: General problem resolution.
2590-204	D	media 2590	The <b>Inquire</b> command failed. Action: Use MAP 0210: General problem resolution.
2590-205	D	2590 media	The <b>Read Sense Data</b> command failed. Action: Use MAP 0210: General problem resolution.
2590-206	D	2590	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution.
2590-207	D	media 2590	The test media is bad or missing. Action: Use MAP 0210: General problem resolution.
2590-208	D	2590 media	The <b>CD-ROM Play Audio</b> command failed. Action: Use MAP 0210: General problem resolution.
2590-209	D	2590	No tone during audio test. Action: Use MAP 0210: General problem resolution.
2590-210	D	2590	The <b>Prevent Media Removal</b> or <b>Allow Media Removal</b> command failed. Action: Use MAP 0210: General problem resolution.
2590-211	D	2590	CD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
2590-701	G	2590	ELA indicates drive hardware failure. Action: Use MAP 0210: General problem resolution.
2590-702	G	2590	ELA indicates drive hardware failure. Action: Use MAP 0210: General problem resolution.
2591-101	D	2591	Unable to open DVD-ROM device driver. Action: Use MAP 0210: General problem resolution.
2591-201	D	25A0	Unable to configure adapter. Action: Use MAP 0210: General problem resolution.
2591-202	D	2591 25A0 media	Unable to configure the device. Action: Use MAP 0210: General problem resolution.
2591-203	D	25A0	Unable to open IDE adapter driver. Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
2591-204	D	media 2591	The <b>Inquire</b> command failed. Action: Use MAP 0210: General problem resolution.
2591-205	D	2591 media	The <b>Read Sense Data</b> command failed. Action: Use MAP 0210: General problem resolution.
2591-206	D	2591	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution.
2591-207	D	2591 media	The test media is bad or missing. Action: Use MAP 0210: General problem resolution.
2591-210	D	2591	The <b>Prevent Media Removal</b> or <b>Allow Media Removal</b> command failed. Action: Use MAP 0210: General problem resolution.
2591-701	D	2591	ELA indicates drive hardware failure. Action: Use MAP 0210: General problem resolution.
2591-702	D	2591	ELA indicates drive hardware failure. Action: Use MAP 0210: General problem resolution.
2592-101	D	2592	Unable to open slimline DVD-ROM device driver. Action: Use MAP 0210: General problem resolution.
2592-201	D	25A0	Unable to configure adapter. Action: Use MAP 0210: General problem resolution.
2592-202	D	2592 25A0 media	Unable to configure the device. Action: Use MAP 0210: General problem resolution.
2592-203	D	25A0	Unable to open IDE adapter driver. Action: Use MAP 0210: General problem resolution.
2592-204	D	media 2592	The <b>Inquire</b> command failed. Action: Use MAP 0210: General problem resolution.
2592-205	D	2592 media	The <b>Read Sense Data</b> command failed. Action: Use MAP 0210: General problem resolution.
2592-206	D	2592	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution.
2592-207	D	media 2592	The test media is bad or missing. Action: Use MAP 0210: General problem resolution.
2592-210	D	2592	The <b>Prevent Media Removal</b> or <b>Allow Media Removal</b> command failed. Action: Use MAP 0210: General problem resolution.
2592-701	D	2592	ELA indicates drive hardware failure. Action: Use MAP 0210: General problem resolution.
2592-702	D	2592	ELA indicates drive hardware failure. Action: Use MAP 0210: General problem resolution.
2593-101	D	2593	Unable to open device driver. Action: Use MAP 0210: General problem resolution.
2593-201	D	25A0	Unable to configure adapter. Action: Use MAP 0210: General problem resolution.
2593-202	D	2593 25A0 Media	Unable to configure the device. Action: Use MAP 0210: General problem resolution.

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Service Request Number	SRN Src.	Failing Function Codes	Description and Action
2593-203	D	25A0	Unable to open device driver. Action: Use MAP 0210: General problem resolution.
2593-204	D	Media 2593	The <b>Inquire</b> command failed. Action: Use MAP 0210: General problem resolution.
2593-205	D	2593 Media	The <b>Read Sense Data</b> command failed. Action: Use MAP 0210: General problem resolution.
2593-206	D	2593	The <b>Test Unit Ready</b> command failed. Action: Use MAP 0210: General problem resolution.
2593-207	D	Media 2593	A media error was detected. Action: Use MAP 0210: General problem resolution.
2593-208	D	2593 Media	The <b>DVD-ROM Play Audio</b> command failed. Action: Use MAP 0210: General problem resolution.
2593-209	D	2593	No tone during audio test. Action: Use MAP 0210: General problem resolution.
2593-210	D	2593	The <b>Prevent Media Removal</b> or <b>Allow Media Removal</b> or command failed. Action: Use MAP 0210: General problem resolution.
2593-211	D	2593	DVD-ROM drive indicates an error. Action: Use MAP 0210: General problem resolution.
2593-212	D	2593 Media	The Write/Read/Compare Test Failed. Action: Use MAP 0210: General problem resolution.
2593-701	D	2593	ELA indicates drive hardware failure. Action: Use MAP 0210: General problem resolution.
2593-702	D	2593	ELA indicates drive hardware failure. Action: Use MAP 0210: General problem resolution.
25B9-101	D	25B9	Local Memory Test Failure Action: Use MAP 0210: General problem resolution.
25B9-102	D	25B9	Local Memory Test Failure Action: Use MAP 0210: General problem resolution.
25B9-103	D	25B9	Memory Test Failure Action: Use MAP 0210: General problem resolution.
25B9-104	D	25B9	NVRAM Test Failure Action: Use MAP 0210: General problem resolution.
25B9-105	D	25B9	Flash Test Failure Action: Use MAP 0210: General problem resolution.
25B9-106	D	25B9	Internal Wrap Test Failure Action: Use MAP 0210: General problem resolution.
25B9-107	D	25B9	External Wrap Test Failure Action: Use MAP 0210: General problem resolution.
25B9-108	D	25B9	DMA Test Failure Action: Use MAP 0210: General problem resolution.
25B9-109	D	221	Enhanced Error Handling Failure on bus Action: Use MAP 0210: General problem resolution.
25B9-110	D	25B9	Enhanced Error Handling Failure on adapter Action: Use MAP 0210: General problem resolution.



Service Request Number	SRN Src.	Failing Function Codes	Description and Action
25B9-201	D	25B9 221	Configuration and I/O Register Test Failure Action: Use MAP 0210: General problem resolution.
25B9-601	G	25B9	Error log analysis indicates that the adapter self-test failed. Action: Use MAP 0210: General problem resolution.
25B9-602	G	25B9	Error log analysis indicates that an NVRAM failure on the adapter has occurred. Action: Use MAP 0210: General problem resolution.
25B9-603	G	25B9	Error log analysis indicates that an adapter error has occurred. Action: Use MAP 0210: General problem resolution.
25B9-604	G	25B9	Error log analysis indicates that a fatal error has occurred. Action: Use MAP 0210: General problem resolution.
25B9-605	G	25B9	Error log analysis indicates that an adapter error has occurred. Action: Use MAP 0210: General problem resolution.
25B9-606	G	25B9	Error log analysis indicates that an unknown adapter hardware error has occurred. Action: Use MAP 0210: General problem resolution.
25C0-101	D	221	Enhanced Error Handling Failure on bus. Action: Use MAP 0210: General problem resolution.
25C0-102	D	293	Enhanced Error Handling Logic Failure. Action: Use MAP 0210: General problem resolution.
25C0-103	D	25C0 221	Enhanced Error Handling Failure while testing adapter. Action: Use MAP 0210: General problem resolution.
25C0-104	D	25C0	Internal wrap test failure (10 Mbps). Action: Use MAP 0210: General problem resolution.
25C0-105	D	25C0	Internal wrap test failure (100 Mbps). Action: Use MAP 0210: General problem resolution.
25C0-106	D	25C0	Internal wrap test failure (1000 Mbps). Action: Use MAP 0210: General problem resolution.
25C0-107	D	25C0	External wrap test failure (10 Mbps). Action: Use MAP 0210: General problem resolution.
25C0-108	D	25C0	External wrap test failure (100 Mbps). Action: Use MAP 0210: General problem resolution.
25C0-201	D	25C0 221	Registers test failure. Action: Use MAP 0210: General problem resolution.
25C0-701	G	25C0	Failure to initialize due to a self-test failure. Action: Use MAP 0210: General problem resolution.
25C0-702	G	25C0 221	Failure to recover from an EEH event. Action: Use MAP 0210: General problem resolution.
25C0-703	G	25C0	Failure to initialize due to a problem while reading the EEPROM on the adapter. Action: Use MAP 0210: General problem resolution.
25C0-704	G	25C0 221	Device has attempted error recover. Action: Use MAP 0210: General problem resolution.
25C1-101	D	221	Enhanced Error Handling Failure on bus. Action: Use MAP 0210: General problem resolution.

## 2520-101 through 25D0-108

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
25C1-102	D	293	Enhanced Error Handling Logic Failure. Action: Use MAP 0210: General problem resolution.
25C1-103	D	25C1 221	Enhanced Error Handling Failure while testing adapter. Action: Use MAP 0210: General problem resolution.
25C1-104	D	25C1	Internal wrap test failure (10 Mbps). Action: Use MAP 0210: General problem resolution.
25C1-105	D	25C1	Internal wrap test failure (100 Mbps). Action: Use MAP 0210: General problem resolution.
25C1-106	D	25C1	Internal wrap test failure (1000 Mbps). Action: Use MAP 0210: General problem resolution.
25C1-107	D	25C1	External wrap test failure (10 Mbps). Action: Use MAP 0210: General problem resolution.
25C1-108	D	25C1	External wrap test failure (100 Mbps). Action: Use MAP 0210: General problem resolution.
25C1-201	D	25C1 221	Registers test failure. Action: Use MAP 0210: General problem resolution.
25C1-701	G	25C1	Failure to initialize due to a self-test failure. Action: Use MAP 0210: General problem resolution.
25C1-702	G	25C1 221	Failure to recover from an EEH event. Action: Use MAP 0210: General problem resolution.
25C1-703	G	25C1	Failure to initialize due to a problem while reading the EEPROM on the adapter. Action: Use MAP 0210: General problem resolution.
25C1-704	G	25C1 221	Device has attempted error recovery. Action: Use MAP 0210: General problem resolution.
25C3-201	G	25C1 221	Registers test failure. Action: Use MAP 0210: General problem resolution.
25C4-201	D	25C4 221	Configuration Error. Action: Use MAP 0210: General problem resolution.
25C4-601	G	25C4	Download firmware error. Action: Use MAP 0210: General problem resolution.
25C4-602	G	25C4	EEPROM read error. Action: Use MAP 0210: General problem resolution.
25C4-701	G	25C4 221	Permanent adapter failure. Action: Use MAP 0210: General problem resolution.
25D0-099	D	25D0	Audio System error log entry. Action: Use MAP 0210: General problem resolution.
25D0-101	D	25D0 software	Audio Subsystem failed. Action: Use MAP 0210: General problem resolution.
25D0-102	D	25D0	CS4232 failed. Action: Use MAP 0210: General problem resolution.
25D0-103	D	25D0	Clock control failed. Action: Use MAP 0210: General problem resolution.
25D0-108	D	25D0	Loop back failed. Action: Use MAP 0210: General problem resolution.
25F8-101	D	25F8	Local Memory Test Failure Action: Use MAP 0210: General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
25F8-102	D	25F8	Local Memory Test Failure Action: Use MAP 0210: General problem resolution.
25F8-103	D	25F8	Memory Test Failure Action: Use MAP 0210: General problem resolution.
25F8-104	D	25F8	NVRAM Test Failure Action: Use MAP 0210: General problem resolution.
25F8-105	D	25F8	Flash Test Failure Action: Use MAP 0210: General problem resolution.
25F8-106	D	25F8	Internal Wrap Test Failure Action: Use MAP 0210: General problem resolution.
25F8-108	D	25F8	DMA Test Failure Action: Use MAP 0210: General problem resolution.
25F8-109	D	221	Enhanced Error Handling Failure on bus Action: Use MAP 0210: General problem resolution.
25F8-110	D	25F8	Enhanced Error Handling Failure on adapter Action: Use MAP 0210: General problem resolution.
25F8-201	D	25F8 221	Configuration and I/O Register Test Failure Action: Use MAP 0210: General problem resolution.
25F8-601	G	25F8	Error log analysis indicates that the adapter self-test failed. Action: Use MAP 0210: General problem resolution.
25F8-602	G	25F8	Error log analysis indicates that an NVRAM failure on the adapter has occurred. Action: Use MAP 0210: General problem resolution.
25F8-603	G	25F8	Error log analysis indicates that an adapter error has occurred. Action: Use MAP 0210: General problem resolution.
25F8-604	G	25F8	Error log analysis indicates that a fatal error has occurred. Action: Use MAP 0210: General problem resolution.
25F8-605	G	25F8	Error log analysis indicates that an adapter error has occurred. Action: Use MAP 0210: General problem resolution.
25F8-606	G	25F8	Error log analysis indicates that an unknown adapter hardware error has occurred. Action: Use MAP 0210: General problem resolution.

## SRNs 2600-101 through 2600-704

Replace FRU parts in the order by which the "Failing Function Codes" are listed.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
2600-101	D	2600	The Fibre Channel Adapter configuration failed. Action: Go to General problem resolution.
2600-102	D	2600	The Reset test failed. Action: Go to General problem resolution.

**2520-101 through 25D0-108**

<b>Service Request Number</b>	<b>SRN Src.</b>	<b>Failing Function Codes</b>	<b>Description and Action</b>
2600-103	D	2600	The Register test failed. Action: Go to General problem resolution.
2600-104	D	2600	The SRAM test failed. Action: Go to General problem resolution.
2600-105	D	2600	The Internal Wrap test failed. Action: Go to General problem resolution.
2600-106	D	2600	The Gigabaud Link Module (GLM) Wrap Test Failure. Action: Go to General problem resolution.
2600-107	D	2600	The External Wrap test failed. Action: Go to General problem resolution.
2600-109	D	221	Enhanced Error Handling Failure on EADs chip. Action: Go to General problem resolution.
2600-110	D	2600	Enhanced Error Handling Failure on adapter. Action: Go to General problem resolution.
2600-201	D	2600 221	The Configuration Register test failed. Action: Go to General problem resolution.
2600-202	D	2600 221	The Interrupt test failed. Action: Go to General problem resolution.
2600-203	D	2600 221	The PCI Wrap test failed. Action: Go to General problem resolution.
2600-204	D	2600 221	The DMA test failed. Action: Go to General problem resolution.
2600-205	D	2600 221	I/O error on a read/write operation. Action: Go to General problem resolution.
2600-701	G	2600 221	Error log analysis indicates that an error has occurred with the adapter. Action: Go to General problem resolution.
2600-703	G	2600	Error log analysis indicates that an unknown adapter error has occurred. Action: Go to General problem resolution.

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
2600-704	G	2600	Error log analysis indicates that an adapter error has occurred. Action: Go to General problem resolution.
2601-102	D	2601	The Reset test failed. Action: Go to General problem resolution.
2601-103	D	2601	The Register test failed. Action: Go to General problem resolution.
2601-104	D	2601	The SRAM test failed. Action: Go to General problem resolution.
2601-105	D	2601	The Internal Wrap test failed. Action: Go to General problem resolution.
2601-106	D	2601	The Gigabaud Link Module (GLM) Wrap Test Failure. Action: Go to General problem resolution.
2601-107	D	2601	The External Wrap test failed. Action: Go to General problem resolution.
2601-108	D	221	Enhanced Error Handling Failure on bus Action: Go to General problem resolution.
2601-110	D	2601	Enhanced Error Handling Failure on adapter Action: Go to General problem resolution.
2601-201	D	2601 221	The Configuration Register test failed. Action: Go to General problem resolution.
2601-202	D	2601 221	The Interrupt test failed. Action: Go to General problem resolution.
2601-203	D	2601	The PCI Wrap test failed. Action: Go to General problem resolution.
2601-204	D	2601 221	The DMA test failed. Action: Go to General problem resolution.
2601-205	D	2601 221	I/O error on a read/write operation. Action: Go to General problem resolution.

## 2520-101 through 25D0-108

Service Request Number	SRN Src.	Failing Function Codes	Description and Action
2601-701	G	2601	Error log analysis indicates that an error has occurred with the adapter. Action: Go to General problem resolution.
2601-703	G	2601	Error log analysis indicates that an unknown adapter error has occurred. Action: Go to General problem resolution.
2601-704	G	2601	Error log analysis indicates that an adapter error has occurred. Action: Go to General problem resolution.
2640-114	D	2640	IDE Disk diagnostic failure Action: Go to General problem resolution.
2640-115	D	2640 2631	IDE disk error on open or configuring device Action: Go to General problem resolution.
2640-121	D	2640	Physical volume hardware error Action: Go to General problem resolution.
2640-131	G	2640	Smart status threshold exceeded Action: Go to General problem resolution.
2640-132	G	2640	Command timeouts threshold exceeded Action: Go to General problem resolution.
2640-133	G	2640	Command timeout with error condition Action: Go to General problem resolution.
2640-134	G	2640	Hardware command or DMA failure Action: Go to General problem resolution.
2640-135	G	2640	IDE DMA error with no error status Action: Go to General problem resolution.
2640-136	G	2640 2631	TimeOut waiting for controller or drive with no busy status Action: Go to General problem resolution.

## SCSI 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 SCSI SRNs before the dash (-).

**Note:**

Service Request Number	SRN Src.	Failing Function Codes	Description and Action .)
ssss-102	D	ssss	An unrecoverable media error occurred. Action: Use MAP 0210: General problem resolution.
ssss-104	D	ssss	The motor failed to restart. Action: Use MAP 0210: General problem resolution.
ssss-105	D	ssss	The drive did not become ready. Action: Use MAP 0210: General problem resolution.
ssss-106	D	ssss	The electronics card test failed. Action: Use MAP 0210: General problem resolution.
ssss-108	D	ssss	The bus test failed. Action: Use MAP 0210: General problem resolution.
ssss-110	D	ssss	The media format is corrupted. Action: Use MAP 0210: General problem resolution.
ssss-112	D	ssss	The diagnostic test failed. Action: Use MAP 0210: General problem resolution.
ssss-114	D	ssss	An unrecoverable hardware error. Action: Use MAP 0210: General problem resolution.
ssss-116	D	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	D	ssss	A write-protect error occurred. Action: Use MAP 0210: General problem resolution.
ssss-118	D	ssss B88	A SCSI command time-out occurred. Action: Use MAP 0210: General problem resolution.
ssss-120	D	ssss	A SCSI busy or command error. Action: Use MAP 0210: General problem resolution.
ssss-122	D	ssss	A SCSI reservation conflict error. Action: Use MAP 0210: General problem resolution.
ssss-124	D	ssss	A SCSI check condition error occurred. Action: Use MAP 0210: General problem resolution.
ssss-126	D	ssss B88	A software error was caused by a hardware failure. Action: Use MAP 0210: General problem resolution.
ssss-128	G	190 B88 ssss software	The error log analysis indicates a hardware failure. Action: Use MAP 0210: General problem resolution.
ssss-129	G	190 B88 ssss software	Error log analysis indicates a SCSI bus problem. Action: Use MAP 0210: General problem resolution.
ssss-130	G	ssss	Error log analysis indicates a problem reported by the disk drive's self-monitoring function. Action: Use MAP 0210: General problem resolution.

## ssss-102 through ssss-640

Service Request Number	SRN Src.	Failing Function Codes	Description and Action .)
ssss-132	D	ssss	A disk drive hardware error occurred. Action: Use MAP 0210: General problem resolution.
ssss-133	D	ssss	Use the Subsystem Service Guide to complete diagnosis. Action: Use MAP 0210: General problem resolution.
ssss-134	D	B88 software	The adapter failed to configure. Action: Use MAP 0210: General problem resolution.
ssss-135	D	ssss B88 software	The device failed to configure. Action: Use MAP 0210: General problem resolution.
ssss-136	D	ssss	The certify operation failed. Action: Use MAP 0210: General problem resolution.
ssss-137	D	ssss B88 190	Unit attention condition has occurred on the <b>Send Diagnostic</b> command. Action: Use MAP 0210: General problem resolution.
ssss-138	D	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	G	199 B88 ssss	Error log analysis indicates poor signal quality. Action: Use MAP 0210: General problem resolution.
ssss-640	G		Error log analysis indicates a path error. Action: Use MAP 0285: Multipath I/O (MPIO) problem resolution.

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## Using service request numbers

*For use by service providers.*

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 code 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 2520-101 through 25D0-108” on page 525, 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 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 345.

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## List of progress codes

*For use by service providers.*

The following progress codes (or checkpoints) represent different processes that occur during initial program load (IPL). The list of progress codes is in numeric order. A general description of the processes represented by the progress code appears beside each number (or range of numbers). Progress codes are 8-character 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 591.

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

## List of progress codes

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 (including those that begin with a space character or a zero)	"AIX IPL progress codes" on page 576
C1xx	"Service processor progress codes"
C2xx	"(C2xx) Virtual service processor progress codes" on page 560
C3yx, C500, C5yx, C600, C6xx	"IPL status progress codes" on page 561
C700	"(C700) Server firmware IPL status progress codes" on page 565
C900	"(C900) IPL status progress codes" on page 567
CAxx	"(CAxx) Partition firmware progress codes" on page 568
D1xx	"Service processor progress codes"
D6xx	"(D6xx) General status progress codes" on page 575
D9xx	"(D9xx) General status progress codes" on page 576

## Service processor progress codes

*For use by service providers.*

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 condition 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 591.

Use the following list to display the different types of service processor progress codes.

"(C1xx) Service processor progress codes (checkpoints)"

"(D1xx) Service processor progress codes (service processor dump and platform dump)" on page 573

"(D1xx) Service processor status progress codes" on page 575

## (C1xx) Service processor progress codes (checkpoints)

*For use by service providers.*

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
C10010xx	Pre-standby	FSPSPC1
C1001F00	Pre-standby: starting initial transition file	FSPSPC1
C1001FFF	Pre-standby: completed initial transition file	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
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
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

## C1xx

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Items
C1031F00	Pre-standby: starting secondaryInitial transition file (secondary)	FSPSPC1
C1031FFF	Pre-standby: completed secondaryInitial transition file (secondary)	FSPSPC1
C103C2xx	The service processor is waiting for the batteries in the uninterruptable 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
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 incrementup 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
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

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Items
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
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
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
C1D22000	Dump: starting DumpTransition-Dump transition file (primary)	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
C1F22000	Reset/reload: starting Reset/Ipl-LimitedRuntime transition file (primary)	FSPSPC1
C1F220FF	Reset/reload: completed Reset/Ipl-LimitedRuntime transition file (primary)	FSPSPC1
C1F32000	Reset/reload: starting Reset/Ipl-Runtime transition file (primary)	FSPSPC1

## C1xx

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Items
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
C200 1xxx	Early IPL Initialization Phase
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 parms
C200 14FF	IPL parms initialized successfully
C200 2xxx	SPCN Tower Power On Phase
C200 3xxx	Bus Unit ISL Phase
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 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
C200 4xxx	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
C200 5xxx	Main Store Dump Phase
C200 5100	Preparing to initiate MSD phase

Progress Code	Function/Description
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 mainstore pages 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
C200 6xxx	Load System Licensed Internal Code from Load Source Phase
C200 6000	Locating First LID information on the loadsource
C200 6010	Locating Next LID information on the loadsource
C200 6020	Verifying LID information
C200 6030	Priming LP Configuration LID
C200 6040	Preparing to initiate LID load from loadsource
C200 6050	LP Configuration LID primed successfully
C200 6060	Waiting for LID load to complete
C200 6100	LID load completed successfully
C200 7xxx	Load Source Device Disconnection Phase
C200 7100	Disconnecting from load source device
C200 7110	Preparing to remove the load source IOP from the primary partition
C200 7120	Load source IOP has been successfully removed from the primary partition
C200 71FF	Load source is successfully disconnected
C200 8xxx	Start Processors Phase
C200 8100	Initializing SP Communication Area #2
C200 8104	Loading data structures into mainstore
C200 8110	Initializing event paths
C200 8120	Starting processors
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

*For use by service providers.*

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. Please note that at points multiple tasks may be happening at the same time, so the

## C3yx, C500, C5yx, C600, C6xx

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.

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 591.

**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 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



Progress Code	Function/Description
C600 4009	Initialize I/O machine
C600 4010	Initialize IDE (interactive device exerciser)
C600 4011	Initialize remote services
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 4100	Searching for Load Source Candidate (D-mode only)

## C3yx, C500, C5yx, C600, C6xx

Progress Code	Function/Description
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 a 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
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

Progress Code	Function/Description
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

*For use by service providers.*

A server that stalls during an initial program load (IPL) of the server firmware indicates a problem with the server firmware code. In this case, your only service action is to call your next level of support. If the problem is in the server firmware code, exchanging any hardware FRU will not fix the problem.

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.

Table 1 uses the following format to list the server firmware IPL status progress codes:

- 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 591.

For more information about the meaning of the progress codes, see the notes following Table 1.

## C700

**Table 1. (C700) Server firmware IPL status progress codes**

Progress Code	Function/Description
C700 ????	Service processor initialization phase
C700 40xx	Early IPL initialization phase

### Notes:

1. During the IPL of the server firmware, progress codes display on the control panel. The first progress code is C700 ????, which indicates the service processor has finished initializing without detecting any problems. At this point, the server firmware code takes over and initializes server firmware components. When the server fails to proceed and the control panel displays C700 ????, the source of the problem is the IPL server firmware code.
2. After the server firmware starts to initialize other components, the control panel displays the IPL status progress codes. The progress codes all use the following format: C700 40xx, where the xx is an increment counter that is not related to the specific component being initialized.

In server firmware IPL status progress codes, the third and fourth words indicate the affected component. Table 2 uses the following format to list the component code and the possible subcomponents in the server firmware IPL status progress codes:

- The first column, Component Code, is word three of the server firmware IPL status progress code.
- The second column, Associated Component, is word four of the server firmware IPL status progress code. The associated component is the subcomponent code that the component (identified by the component code) may or may not use.

For more information about using progress codes, see “Using progress codes” on page 591.

**Table 2. Components specified by server firmware IPL status progress codes**

Component Code	Associated Component
Resource Management Base	00040001
Error Routing	00080001
Error Analysis	00080002
Timer Management	00040002
Multiprocessor	00090000
Bus Transport	00010002
LIDMgrP	000A0000
MiniIP	000B0000
LAN	00010012
Machine Facilities	00010001
Partition Configuration Manager	000C0001
Main Storage Dump Manager	000C0002
Breakpoint Management	000C0003
Link Loader	000C0004
CppMacro	000D0000
Common Functions Asset Protection	00060000
Delay Cost Scheduler	000E0001
Concurrent Maintenance	0001000E
IPL Termination	000D0000

## (C900) IPL status progress codes

*For use by service providers.*

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.
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

Progress Code	Function/Description
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

*For use by service providers.*

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.

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 591.
- 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	PFW1548
CA000020	Checking firmware levels	PFW1548
CA000030	Attempting to establish a communication link by using lpevents	PFW1548
CA000032	Attempting to register lpevent queues	PFW1548
CA000034	Attempting to exchange cap and allocate lpevents	PFW1548
CA000038	Attempting to exchange virtual continue events	PFW1548
CA000040	Attempting to obtain RTAS firmware details	PFW1548
CA000050	Attempting to load RTAS firmware	PFW1548
CA000060	Attempting to obtain open firmware details	PFW1548
CA000070	Attempting to load open firmware	PFW1548
CA000080	Preparing to start open firmware	PFW1548
CA000090	Open firmware package corrupted (phase 1)	PFW1548
CA0000A0	Open firmware package corrupted (phase 2)	PFW1548
CA00D001	PCI probe process completed, create PCI bridge interrupt routing properties	PFW1548
CA00D002	PCI adapter NVRAM hint created; system is rebooting	PFW1548
CA00D003	PCI probing complete	FWPCI5
CA00D004	Beginning of install-console, loading GUI package	PFW1548
CA00D008	Initialize console and flush queues	PFW1548
CA00D00C	The partition firmware is about to search for an NVRAM script	NEXTLVL
CA00D00D	Evaluating NVRAM script	PFW1548
CA00D010	First pass open firmware initialization complete; establish parameters for restart	PFW1548
CA00D011	First pass open firmware initialization complete; control returned to initialization firmware	PFW1548
CA00D012	Second pass open firmware initialization complete; control returned to initialization firmware	PFW1548
CA00D013	Run-time open firmware initialization complete; control returned to initialization firmware	PFW1548
CA00D020	The partition firmware is about to load and run the SLIC loader	PFW1548
CA00E101	Create RTAS node	PFW1548
CA00E102	Load/initialize RTAS	PFW1548
CA00E105	Transfer control to operating system (normal boot)  See Problems with loading and starting the operating system (AIX and Linux)	

## CAxx

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
CA00E10A	Load RTAS device tree	PFW1548
CA00E10B	Set RTAS device properties	PFW1548
CA00E130	Build device tree	PFW1548
CA00E134	Create memory node	PFW1548
CA00E138	Create options node	PFW1548
CA00E139	Create aliases node and system aliases	PFW1548
CA00E13A	Create packages node	PFW1548
CA00E140	Loading operating system  See Problems with loading and starting the operating system (AIX and Linux)	
CA00E149	Create boot mgr node	PFW1548
CA00E14C	Create terminal emulator node	PFW1548
CA00E14D	Load boot image  See Problems with loading and starting the operating system (AIX and Linux)	
CA00E150	Create host (primary) PCI controller node	PFW1548
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
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



Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
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	PFW1548
CA00E19B	NVRAM menu? variable not found - assume FALSE	PFW1548
CA00E19D	Create NVRAM node	PFW1548
CA00E1A0	User requested boot to SMS menus by using keyboard entry	PFW1548
CA00E1A1	User requested boot to open firmware prompt by using keyboard entry	PFW1548
CA00E1A2	User requested boot using default service mode boot list by using keyboard entry	PFW1548
CA00E1A3	User requested boot using customized service mode boot list by using keyboard entry	PFW1548
CA00E1A4	User requested boot to SMS menus by using the Hardware Management Console or a service processor command	PFW1548
CA00E1A5	User requested boot to open firmware prompt by using the HMC or a service processor command	PFW1548
CA00E1A6	User requested boot using default service mode boot list by using the HMC or a service processor command	PFW1548
CA00E1A7	User requested boot using customized service mode boot list by using the HMC or a service processor command	PFW1548
CA00E1AA	System boot check for NVRAM settings	PFW1548
CA00E1AB	System booting using the default service mode boot list	PFW1548
CA00E1AC	System booting using the customized service mode boot list	PFW1548
CA00E1AD	System booting to the operating system	PFW1548
CA00E1AE	System booted to SMS multiboot menu by using NVRAM settings	FWMBOOT
CA00E1AF	System booted to SMS utilities menu by using NVRAM settings	PFW1548
CA00E1B1	System booting with HMC or hosting-partition directed boot-device repair	PFW1548
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
CA00E1D0	Create PCI SCSI node	FWPCI5
CA00E1D3	Create SCSI block device node (SD)	FWPCI5

## CAxx

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
CA00E1D4	Create SCSI byte device node (ST)	FWPCI5
CA00E1DC	Dynamic console selection	FWCONS
CA00E1F0	Start out-of-box experience	PFW1542
CA00E1F1	Start self-test sequence on one or more devices	PFW1542
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	PFW1542
CA00E1F5	Build boot device list	PFW1542
CA00E1F6	Determine boot device sequence	PFW1542
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)	PFW1548
CA00E1FF	Build device list for Fibre Channel (SAN) adapters (displays the LUN for each device being scanned)	PFW1548
CA00E440	Validate NVRAM, initialize partitions as needed	PFW1548
CA00E441	Generate /options node NVRAM configuration variable properties	PFW1548
CA00E442	Validate NVRAM partitions	PFW1548
CA00E443	Generate NVRAM configuration variable dictionary words  Suspect a platform firmware problem if this error code persists.	PFW1548
CA00E701	Create memory VPD	PFW1548
CA00E800	Initialize gdata for control panel	PFW1548
CA00E820	Initializing lpevent	PFW1548
CA00E830	Initializing event scan	PFW1548
CA00E840	Initializing hot plug	PFW1548
CA00E843	Initializing interface/aix access	PFW1548
CA00E850	Initializing dynamic reconfiguration	PFW1548
CA00E860	Initializing sensors	PFW1548
CA00E865	Initializing VPD	PFW1548

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Item
CA00E870	Initializing pfd's memory manager	PFW1548
CA00E875	Initializing rtas_last_error	PFW1548
CA00E876	Initializing rtas_error_inject	PFW1548
CA00E885	Initializing set-power-level	PFW1548
CA00E886	Initializing exit2c	PFW1548
CA00E887	Initialize gdata for activate_firmware	PFW1548
CA00E890	Starting to initialize open firmware	PFW1548
CA00E891	Finished initializing open firmware	PFW1548
CA00EAA1	Probe PCI-PCI bridge bus	FWPCI5
CA26ttss	Waiting for lpevent of type tt and subtype ss  Reboot the system.	
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.	
CA2799FF	The service processor is writing a server firmware update module.  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.  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.	

## (D1xx) Service processor progress codes (service processor dump and platform dump)

*For use by service providers.*

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)**

## D1xx

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Items
D1001xxx	Dump error data	FSPSPD1
D1011xxx	Dump sai_header 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
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 rtlb	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

Progress Code	Description/Action Perform all actions before exchanging Failing Items	Failing Items
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

*For use by service providers.*

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**

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

## (D6xx) General status progress codes

*For use by service providers.*

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
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 <b>root (/)</b> and <b>/usr</b> file systems failed during network boot.
520	Bus configuration running.
521	<b>/etc/init</b> invoked <b>cfmgmr</b> with invalid options; <b>/etc/init</b> has been corrupted or incorrectly modified (irrecoverable error).

## AIX IPL progress codes

Progress code	Description/Action
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 <b>config.rules</b> 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 <b>savebase</b> program returned an error.
531	The configuration manager is unable to access the <b>PdAt</b> 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.
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).
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.



Progress code	Description/Action
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.
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.

## AIX IPL progress codes

Progress code	Description/Action
608	Attempting to retrieve the <b>client.info</b> file with <b>tftp</b> . <b>Note:</b> Note that a flashing 608 indicates multiple attempt(s) to retrieve the <b>client_info</b> file are occurring.
609	The <b>client.info</b> 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.
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.
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.

Progress code	Description/Action
650	IBM 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 <sup>®</sup> Channel PCI Adapter being configured.
677	PCI 32-bit Fibre Channel Arbitrated Loop Adapter being configured.
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.
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.
710	POWER GXT150M graphics adapter being identified or configured.
711	Unknown adapter being identified or configured.
712	Graphics slot bus configuration is executing.

## AIX IPL progress codes

Progress code	Description/Action
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.
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.

Progress code	Description/Action
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 <sup>®</sup> 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 <sup>®</sup> 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.
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.

## AIX IPL progress codes

Progress code	Description/Action
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 <sup>®</sup> 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 <sup>™</sup> /POWER Gt4 <sup>™</sup> being identified or configured.
878	POWER Gt4 <sup>™</sup> graphics processor card being configured.
879	24-bit color graphics card, MEV2 being configured.
880	POWER Gt1 <sup>™</sup> 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.

Progress code	Description/Action
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.
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.

## AIX IPL progress codes

Progress code	Description/Action
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.
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.



Progress code	Description/Action
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.
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
2530	10/100 Mbps Ethernet PCI Adapter II being configured.
2547	Generic AS400 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
2590	IDE CD-ROM Drive
2591	IDE DVD-ROM Drive being configured.
2592	IDE DVD-ROM Drive being configured.
2593	IDE DVD-RAM Drive being configured.
25A0	I/O Planar Control Logic for IDE devices
25B9	Ethernet Adapter (Fiber)
25C2	IBM Dual Port Gigabit SX Ethernet PCI-X Adapter
25C3	IBM 10/100/1000 Base-TX Dual Port PCI-Adapter
25C4	Broadcom Dual-Port Gpbs Ethernet PCI-X Adapter
25F8	Ethernet Adapter (Copper)
2600	PCI 64-bit Fibre Channel Arbitrated Loop Adapter being configured.
2601	PCI 64-bit Fibre Channel Arbitrated Loop Adapter being configured. (cost reduced)
2631	Integrated IDE controller
2640	IDE Disk Drive, 2.5 inch
2D01	PCI-X Quad Channel U320 SCSI RAID Battery Pack

### AIX diagnostics load-progress indicators

**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.

## AIX IPL progress codes

Progress code	Description/Action
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 <b>rc.boot</b> 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 <b>ifconfig</b> command was unable to configure the network for the client network host.
c22	The <b>tftp</b> 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 <b>/usr</b> 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.
c53	Not enough space in the <b>/tmp</b> 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.

Progress code	Description/Action
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:

**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.

## AIX IPL progress codes

**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.

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## Using progress codes

*For use by service providers.*

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 or D
- 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 or 2

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.

### Using the Advanced System Management Interface to view progress code logs

The service processor keeps two logs of progress codes. Use the Advanced System Management Interface (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 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 555.



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## Appendix. Notices

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POWER Gt1  
POWER Gt3  
POWER Gt4  
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## Communications statements

The following Class A statements apply to these models:

5790  
5791  
5794  
7311-D10  
7311-D11  
7311-D20  
9111-520 (rack-mounted version)  
9113-550  
9117-570  
9119-590  
9119-595  
9124-720  
9405-520  
9406-520  
9406-550  
9406-570  
9406-595  
9411-100

The following Class B statements apply to model 9111-520 (stand-alone version).

## Federal Communications Commission (FCC) statement

**Note:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

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.

Responsible Party:

International Business Machines Corporation  
New Orchard Road  
Armonk, NY 10504

Telephone: 1-919-543-2193

### **Industry Canada Compliance Statement**

This Class A digital apparatus meets the requirements of the Canadian Interference-Causing Equipment Regulations.

### **Avis de conformité à la réglementation d'Industrie Canada**

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

### **European Community Compliance Statement**

This product is in conformity with the protection requirements of EU Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility. IBM cannot accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product, including the fitting of non-IBM option cards.

### **Australia and New Zealand Class A statement**

**Attention:** 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.

### **VCCI Statement - Japan**

<p>この装置は、クラス A 情報技術装置です。この装置を家庭環境で使用する と電波妨害を引き起こすことがあります。この場合には使用者が適切な対策 を講ずるよう要求されることがあります。 V C C I - A</p>
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The following is a summary of the VCCI Japanese statement in the box above.

This is a Class A product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this equipment is used in a domestic environment, radio disturbance may arise. When such trouble occurs, the user may be required to take corrective actions.

### **Electromagnetic Interference (EMI) Statement - People's Republic of China**

Per GB 9254-1998, the user manual for a Class A product must carry the following warning message (English translation from the Chinese standard) about use in a residential environment in Chinese

(Simplified Chinese):

**声 明**

此为 A 级产品,在生活环境中,  
该产品可能会造成无线电干扰。  
在这种情况下,可能需要用户对其  
干扰采取切实可行的措施。

Declaration: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may need to perform practical action.

#### Electromagnetic Interference (EMI) Statement - Taiwan

**警告使用者：**

這是甲類的資訊產品，在  
居住的環境中使用時，可  
能會造成射頻干擾，在這  
種情況下，使用者會被要  
求採取某些適當的對策。

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.

#### 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 A. 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

Dieses Genehmigungsverfahren ist von der Deutschen Bundespost noch nicht veröffentlicht worden.

The following Statement applies to this IBM product. The statement for other IBM products intended for use with this product will appear in their accompanying manuals.

#### **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.

Responsible Party:

International Business Machines Corporation  
New Orchard Road  
Armonk, NY 10504

Telephone: 1-919-543-2193

### **Industry Canada Compliance Statement**

This Class B digital apparatus meets the requirements of the Canadian Interference-Causing Equipment Regulations.

### **Avis de conformité à la réglementation d'Industrie Canada**

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

### **European Community Compliance Statement**

This product is in conformity with the protection requirements of EC Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility. IBM cannot accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product, including the fitting of non-IBM option cards.

This product has been tested and found to comply with the limits for Class B Information Technology Equipment according to CISPR 22 / European Standard EN 55022. The limits for Class B equipment were derived for typical residential environments to provide reasonable protection against interference with licensed communication devices.

Properly shielded and grounded cables and connectors (IBM part number 75G5958 or its equivalent) must be used in order to reduce the potential for causing interference to radio and TV communications

and to other electrical or electronic equipment. Such cables and connectors are available from IBM authorized dealers. IBM cannot accept responsibility for an interference caused by using other than recommended cables and connectors.

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## Product recycling and disposal

This unit contains materials such as circuit boards, cables, electromagnetic compatibility gaskets and connectors which may contain lead and copper/beryllium alloys that require special handling and disposal at end of life. Before this unit is disposed of, these materials must be removed and recycled or discarded according to applicable regulations. IBM offers product-return programs in several countries. Information on product recycling offerings can be found on IBM's Internet site at <http://www.ibm.com/ibm/environment/products/prp.shtml>.

IBM encourages owners of information technology (IT) equipment to responsibly recycle their equipment when it is no longer needed. IBM offers a variety of programs and services to assist equipment owners in recycling their IT products. Information on product recycling offerings can be found on IBM's Internet site at <http://www.ibm.com/ibm/environment/products/prp.shtml>.

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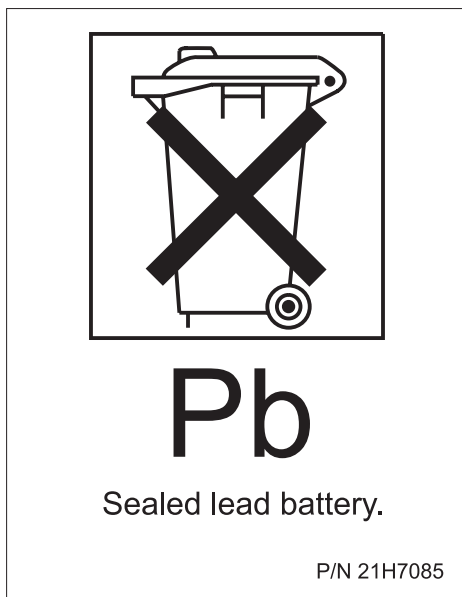
## Battery return program

This product may contain sealed lead acid, nickel cadmium, nickel metal hydride, lithium, or lithium ion battery. Consult your user manual or service manual for specific battery information. The battery must be recycled or disposed of properly. Recycling facilities may not be available in your area. For information on disposal of batteries outside the United States, go to

<http://www.ibm.com/ibm/environment/products/batteryrecycle.shtml> or contact your local waste disposal facility.

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 Equipment. For information on proper disposal of these batteries, contact IBM at 1-800-426-4333. Please have the IBM part number listed on the battery available prior to your call.

In the Netherlands, the following applies:



In Taiwan, the following applies. Please recycle batteries.



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## IBM Cryptographic Adapter Card Return Program

This machine may contain an optional feature, the cryptographic coprocessor card, which includes a polyurethane material that contains mercury. Follow local ordinances or regulations for disposal of this card. IBM has established a return program for certain IBM Cryptographic Adapter Cards. More information can be found at: <http://www.ibm.com/ibm/environment/products/prp.shtml>





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