

**System Board Errors:**

Code	Description
101	System board interrupt failure (unexpected interrupt)
102	BIOS ROM checksum error (PC, XT); timer error (AT, MCA)
103	BASIC ROM checksum error (PC, XT); timer interrupt error (AT, MCA)
104	Interrupt controller error (PC, XT); protected mode error (AT, MCA)
105	Timer failure (PC, XT); 8042 keyboard controller failure (MCA)
106	System board converting logic test failure
107	System board non-maskable interrupt (NMI) test failure; Hot NMI test failure (MCA)
108	System board timer bus test failure
109	DMA test memory select failure
110	PS/2 system board parity check error (MCA); PS/2 system board memory error (ISA)
111	PS/2 adapter memory problem (ISA); PS/2 I/O channel parity check error (MCA)
112	PS/2 watchdog timeout error (NMI)
113	PS/2 DMA arbitration time out error (NMI)
114	PS/2 external ROM checksum error
115	BIOS ROM checksum error, cache parity error, or DMA error
116	System board read/write error
118	System Board parity or L2 cache error
119	2.88MB floppy installed but not supported by the floppy controller
120	CPU self test error
121	Unexpected hardware interrupt occurred; 256KB ROM checksum error (second 128KB bank)
129	System Board Failure
131	Cassette wrap test; DMA compatibility registers error
132	DMA extended registers error
133	DMA verify logic error
134	DMA arbitration error
151	Battery, real time clock, or CMOS RAM failure
152	Real time clock, or CMOS RAM failure
160	PS/2 system board ID not recognized
161	CMOS configuration lost (battery has died)
162	CMOS checksum error, CRC error, or adapter ID mismatch
163	CMOS error; Clock is not updating
164	CMOS error; CMOS setting does not match memory on system board
165	PS/2 adapter ID mismatch
166	PS/2 adapter time out; card busy
167	PS/2 system clock not updating
168	Math coprocessor error in the CMOS configuration
169	System board and processor card configuration mismatch
170	ASCII setup conflict error
171	Rolling bit test failure on CMOS shutdown byte
172	Rolling bit test failure on NVRAM diagnostic byte
173	Bad CMOS/NVRAM checksum
174	Bad system configuration
175	Bad EEPROM CRC
177	Bad password CRC
178	Bad EEPROM
179	NVRAM error log full
180x	Sub address date error in slot x
181	Unsupported configuration
182	Password switch is not in the writing position

183	System halted; password is required
184	Bad power on password
185	Bad startup sequence
186	Password protection hardware error
187	Serial number error
188	Bad EEPROM checksum
189	Too many incorrect password attempts
191	Cache controller test failed
194	System board memory error
195	Configuration read from hibernation area of HDD doesn't match actual configuration
196	Read error occurred in hibernation area of HDD
199	User indicated device list not correct

### Memory Errors:

Code	Description
20x	Memory error
201	Memory test failure; error location might be displayed
202	Memory address error; lines 00-15
203	Memory address error; lines 16-23 (ISA) or 16-31 (MCA)
204	Memory remapped due to error (run diagnostics again)
205	Base 128KB memory error; memory remapped
207	ROM failure
210	System board memory parity error
211	Error in first 64KB of RAM
212	Watchdog timer error
213	DMA bus arbitration time out
215	Memory address error; 64KB on daughter/SIP 2 failed
216	Memory address error; 64KB on daughter/SIP 1 failed
221	ROM to RAM copy failed
225	Wrong speed memory on system board
229	Memory Error
230	Overlapping adapter and planar memory
231	Non continuous adapter memory installed
235	Stuck data line on memory module
241	Memory module 2 failed
251	Memory module 3 failed

### Keyboard Errors:

Code	Description
301	Keyboard did not respond correctly
302	Keyboard locked
303	Keyboard and/or system board interface error; keyboard controller fault
304	Keyboard or system unit error
305	Keyboard fuse failed on system board
306	Unsupported keyboard attached
341	Keyboard error
342	Keyboard cable error
343	Enhancement card or cable error
365	Keyboard failure
366	Interface cable failure
367	Enhancement card or cable failure

### Monochrome Display Adapter Errors:

Code	Description
401	Memory, horizontal sync frequency or vertical sync failure
408	User indicated display attribute failure
416	User indicated character set failure
424	User indicated 80 x 25 mode failure
432	MDA card parallel port test failure

### Color Graphics Adapter Errors:

Code	Description
501	CRT error; CGA memory, horizontal sync frequency or video test failure
503	CGA adapter controller failed
508	User display attribute failure
516	User indicated character set failure
524	User indicated 80 x 25 mode failure
532	User indicated 40 x 25 mode failure
540	User indicated 320 x 200 graphics mode failure
548	User indicated 640 x 200 graphics mode failure
556	User indicated light pen test failed
564	User indicated paging test failure

### Floppy Drive/Controller Errors:

Code	Description
601	General diskette or adapter failure
602	Diskette boot sector is not valid
603	Diskette size error
604	Media sense error
605	Diskette drive locked
606	Diskette verify test failed
607	Write protect error
608	Drive command error
610	Diskette initialization failure
611	Drive time out error
612	NEC drive controller IC error
613	Floppy system DMA error
614	Floppy system DMA boundary overrun error
615	Drive index timing error
616	Drive speed error
621	Drive seek error
622	Drive cyclic redundancy check (CRC) error
625	Controller chip (NEC) seek error
626	Diskette data compare error
627	Diskette data compare error
628	Diskette removed
630	Index stuck high; drive A:
631	Index stuck low; drive A:
632	Track 0 stuck off; drive A:
632	Track 0 stuck on; drive A:
640	Index stuck high; drive B:
641	Index stuck low; drive B:
642	Track 0 stuck off; drive B:
643	Track 0 stuck on; drive B:
645	No index pulse
646	Drive track 0 detection failed

647	No transitions on read data line
648	Format test failed
649	Incorrect media type in drive
650	Drive speed error
651	Format failure
652	Verify failure
653	Read failure
654	Write failure
655	Controller error
656	Drive failure
657	Write protect stuck protected
658	Changeline stuck unprotected
659	Write protected stuck unprotected
660	Changeline stuck unchanged

### Math Coprocessor Errors:

Code	Description
701	Math coprocessor presence/initialization error
702	Exception errors test failure
703	Rounding test failure
704	Arithmetic test 1 failure
705	Arithmetic test 2 failure
706	Arithmetic test 3 failure; Test is performed on 80387 only
707	Combination test failure
708	Integer load/store test failure
709	Equivalent expressions errors
710	Interrupt errors
711	Save state errors
712	Protected mode test failure
713	Voltage test failure

### Parallel Printer Adapter Errors:

Code	Description
901	Data register latch error
902	Control register latch error
903	Register address decode error
904	Address decode error
910	Status line wrap connector error
911	Status line bit 8 wrap error
912	Status line bit 7 wrap error
913	Status line bit 6 wrap error
914	Status line bit 5 wrap error
915	Status line bit 4 wrap error
916	Printer adapter interrupt wrap error
917	Unexpected printer adapter interrupt
92x	Feature register error

### Alternate Printer Adapter Errors:

Code	Description
1001	Printer adapter data register latch error
1002	Printer adapter control register latch error
1003	Printer adapter register address decode error

1004	Printer adapter address decode error
1010	Status line wrap connector error
1011	Status line bit 8 wrap error
1012	Status line bit 7 wrap error
1013	Status line bit 6 wrap error
1014	Status line bit 5 wrap error
1015	Status line bit 4 wrap error
1016	Printer adapter interrupt wrap error
1017	Unexpected printer adapter interrupt
102x	Feature register error

### Primary Async Communications Errors:

Code	Description
1101	16450/16550 chip error; serial port A error
1102	Card selected feedback error; PC convertible internal modem test failed
1103	Port 102h register test failure; PC convertible internal modem dial tone test 1 failed
1104	PC convertible internal modem dial tone test 2 failed
1106	Serial option cannot be put to sleep
1107	Cable error
1108	Interrupt request (IRQ) 3 error
1109	Interrupt request (IRQ) 4 error
1110	16450/16550 chip register failure
1111	Internal wrap test of 16450/16550 chip modem control line failure
1112	External wrap test of 16450/16550 chip modem control line failure
1113	16450/16550 chip transmit error
1114	16450/16550 chip receive error
1115	16450/16550 chip receive error; data not equal to transmit data
1116	16450/16550 chip interrupt function error
1117	16450/16550 chip baud rate test failure
1118	16450/16550 chip receive external data wrap test failure
1119	16550 chip first-in/first-out (FIFO) buffer failure
1120	Interrupt enable register error; all bits cannot be set
1121	Interrupt enable register error; all bits cannot be reset
1122	Interrupt pending; stuck on
1123	Interrupt ID register; stuck on
1124	Modem cannot register error; all bits cannot be set
1125	Modem cannot register error; all bits cannot be reset
1126	Modem status register error; all bits cannot be set
1127	Modem status register error; all bits cannot be reset
1128	Interrupt ID error
1129	Cannot force overrun error
1130	No modem status interrupt
1131	Invalid interrupt pending
1132	No data ready
1133	No data available interrupt
1134	No transmit holding interrupt
1135	No interrupts
1136	No received line status interrupt
1137	No receive data available
1138	Transmit holding register not empty
1139	No modem status interrupt
1140	Transmit holding register not empty
1141	No interrupts

1142	No interrupt 4
1143	No interrupt 3
1144	No data transferred
1145	Maximum baud rate error
1146	Minimum baud rate error
1148	Time out error
1149	Invalid data returned
1150	Modem status register error
1151	No data set ready and delta data set ready
1152	No data set ready
1153	No delta data set ready
1154	Modem status register not clear
1155	No clear to send and delta clear to send
1156	No clear to send
1157	No delta clear to send

### Alternate Async Communications Errors:

Code	Description
1201	16450/16550 chip error
1202	Card selected feedback error
1203	Port 02h register test failure
1206	Serial option cannot be put to sleep
1207	Cable error
1208	Interrupt request (IRQ) 3 error
1209	Interrupt request (IRQ) 4 error
1210	16450/16550 chip register failure
1211	Internal wrap test of 16450/16550 chip modem control line failure
1212	External wrap test of 16450/16550 chip modem control line failure
1213	16450/16550 chip transmit error
1214	16450/16550 chip receive error
1215	16450/16550 chip receive error; data not equal to transmit data
1216	16450/16550 chip interrupt function error
1217	16450/16550 chip baud rate test failure
1218	16450/16550 chip receive external data wrap test failure
1219	16550 chip first-in/first-out (FIFO) buffer failure
1220	Interrupt enable register error; all bits cannot be set
1221	Interrupt enable register error; all bits cannot be reset
1222	Interrupt pending; stuck on
1223	Interrupt ID register; stuck on
1224	Modem cannot register error; all bits cannot be set
1225	Modem cannot register error; all bits cannot be reset
1226	Modem status register error; all bits cannot be set
1227	Modem status register error; all bits cannot be reset
1228	Interrupt ID error
1229	Cannot force overrun error
1230	No modem status interrupt
1231	Invalid interrupt pending
1232	No data ready
1233	No data available interrupt
1234	No transmit holding interrupt
1235	No interrupts
1236	No received line status interrupt
1237	No receive data available

1238	Transmit holding register not empty
1239	No modem status interrupt
1240	Transmit holding register not empty
1241	No interrupts
1242	No interrupt 4
1243	No interrupt 3
1244	No data transferred
1245	Maximum baud rate error
1246	Minimum baud rate error
1248	Time out error
1249	Invalid data returned
1250	Modem status register error
1251	No data set ready and delta data set ready
1252	No data set ready
1253	No delta data set ready
1254	Modem status register not clear
1255	No clear to send and delta clear to send
1256	No clear to send
1257	No delta clear to send

### Game Control Adapter Errors:

Code	Description
1301	Game control adapter test failure
1302	Joystick test failure

### Matrix Printer Errors:

Code	Description
1401	Printer test failure
1402	Printer not ready, not on line, or out of paper
1403	Printer no paper error
1404	Matrix printer test failure; system board time out
1405	Parallel adapter failure
1406	Printer presence test failed

### Synchronous Data Link Control Communications (SDLC) Adapter Errors:

Code	Description
1501	SDLC adapter test failure
1510	8255 port B failure
1511	8255 port A failure
1512	8255 port C failure
1513	8253 timer #1 did not reach terminal count
1514	8253 timer #1 stuck on
1515	8253 timer #0 did not reach terminal count
1516	8253 timer #0 stuck on
1517	8253 timer #2 did not reach terminal count
1518	8253 timer #2 stuck on
1519	8273 port B error
1520	8273 port A error
1521	8273 command/read time out
1522	Interrupt level 4 failure
1523	Ring indicate stuck on
1524	Receive clock stuck on

1525	Transmit clock stuck on
1526	Test indicate stuck on
1527	Ring indicate stuck on
1528	Receive clock stuck on
1529	Transmit clock stuck on
1530	Test indicate not on
1531	Data set ready not on
1532	Carrier detect not on
1533	Clear to send not on
1534	Data set ready stuck on
1535	Carrier detect stuck on
1536	Clear to send stuck on
1537	Interrupt level 3 failure
1538	Receive interrupt results error
1539	Wrap data compare error
1540	Direct memory access channel 1 error
1541	Direct memory access channel 1 error
1542	8273 error checking or status reporting error
1547	Stray interrupt level 4
1548	Stray interrupt level 3
1549	Interrupt presentation sequence time out

### Display Station Emulation Adapter (DSEA) Errors:

Code	Description
1604	DSEA or twinaxial network error
1608	DSEA or twinaxial network error
1624	DSEA error
1634	DSEA error
1644	DSEA error
1652	DSEA error
1654	DSEA error
1658	DSEA error
1662	DSEA interrupt level error
1664	DSEA error
1668	DSEA interrupt level error
1669	DSEA diagnostics error; use 3.0 or higher
1674	DSEA diagnostics error; use 3.0 or higher; DSEA station address error
1684	DSEA device address error
1688	DSEA device address error

### Hard Drive and Controller Errors:

Code	Description
1701	Fixed disk or adapter general error
1702	Drive and controller time out error
1703	Drive seek error
1704	Drive controller failed
1705	Drive sector not found error
1706	Write fault error
1707	Drive track 00 error
1708	Head select error
1709	Bad ECC returned
1710	Sector buffer overrun
1711	Bad address mark



1712	Internal controller diagnostics failure
1713	Data compare error
1714	Drive not ready
1715	Track 00 indicator error
1716	Diagnostics cylinder errors
1717	Surface read errors
1718	Hard drive error
1720	Bad diagnostics cylinder
1726	Data compare error
1730	Drive controller error
1731	Drive controller error
1732	Drive controller error
1733	BIOS undefined error return
1735	Bad command error
1736	Data corrected error
1737	Bad drive track error
1738	Bad sector error
1739	Bad initialization error
1740	Bad sense error
1750	Drive verify error
1751	Drive read error
1752	Drive write error
1753	Drive random read test failure
1754	Drive seek test failure
1755	Drive controller failure
1756	Controller ECC test failure
1757	Controller head select failure
1780	Drive seek failure (drive 0)
1781	Drive seek failure (drive 1)
1782	Hard disk controller failure
1790	Diagnostic cylinder read error (drive 0)
1791	Diagnostic cylinder read error (drive 1)

### I/O Expansion Unit Errors:

Code	Description
1801	Expansion unit POST error
1810	Enable/Disable failure
1811	Extender card wrap test failure while disabled
1812	High order address lines failure while disabled
1813	Wait state failure while disabled
1814	Enable/disable could not be set on
1815	Wait state failure while enabled
1816	Extender card wrap test failure while enabled
1817	High order address lines failure while enabled
1818	Disable not functioning
1819	Wait request switch not set correctly
1820	Receiver card wrap test failed
1821	Receiver high order address lines failure

### Binary Synchronous Communications (BSC) Adapter Errors:

Code	Description
2001	BSC adapter test failure
2010	8255 port A failure

2011	8255 port B failure
2012	8255 port C failure
2013	8253 timer #1 did not reach terminal count
2014	8253 timer #1 stuck on
2015	8253 timer #2 did not reach terminal count
2016	8253 timer #2 stuck on
2017	8251 data set ready failed to come on
2018	8251 clear to send not sensed
2019	8251 data set ready stuck on
2020	8151 clear to send stuck on
2021	8151 hardware reset failure
2022	8251 software reset failure
2023	8251 software "error reset" failure
2024	8251 transmit ready did not come on
2025	8251 receive ready did not come on
2026	8251 could not force "overflow" error status
2027	Interrupt failure; no timer interrupt
2028	Interrupt failure; transmit; replace card or planar
2029	Interrupt failure; transmit; replace card
2030	Interrupt failure; receive; replace card or planar
2031	Interrupt failure; receive; replace card
2033	Ring indicate stuck on
2034	Receive clock stuck on
2035	transmit clock stuck on
2036	Test indicate stuck on
2037	Ring indicate stuck on
2038	Receive clock not on
2039	Transmit clock not on
2040	Test indicate not on
2041	Data set ready not on
2042	Carrier detect not on
2043	Clear to send not on
2044	Data set ready stuck on
2045	Carrier detect stuck on
2046	Clear to send stuck on
2047	Unexpected transmit interrupt
2048	Unexpected receive interrupt
2050	8251 detected overrun error
2051	Lost data set ready during data wrap
2052	Receive time out during data wrap

### Alternate Binary Synchronous Communications (BSC) Adapter Errors:

Code	Description
2101	BSC adapter test failure
2110	8255 port A failure
2111	8255 port B failure
2112	8255 port C failure
2113	8253 timer #1 did not reach terminal count
2114	8253 timer #1 stuck on
2115	8253 timer #2 did not reach terminal count
2116	8253 timer #2 stuck on
2117	8251 data set ready failed to come on
2118	8251 clear to send not sensed

2119	8251 data set ready stuck on
2120	8151 clear to send stuck on
2121	8151 hardware reset failure
2122	8251 software reset failure
2123	8251 software "error reset" failure
2124	8251 transmit ready did not come on
2125	8251 receive ready did not come on
2126	8251 could not force "overflow" error status
2127	Interrupt failure; no timer interrupt
2128	Interrupt failure; transmit; replace card or planar
2129	Interrupt failure; transmit; replace card
2130	Interrupt failure; receive; replace card or planar
2131	Interrupt failure; receive; replace card
2133	Ring indicate stuck on
2134	Receive clock stuck on
2135	transmit clock stuck on
2136	Test indicate stuck on
2137	Ring indicate stuck on
2138	Receive clock not on
2139	Transmit clock not on
2140	Test indicate not on
2141	Data set ready not on
2142	Carrier detect not on
2143	Clear to send not on
2144	Data set ready stuck on
2145	Carrier detect stuck on
2146	Clear to send stuck on
2147	Unexpected transmit interrupt
2148	Unexpected receive interrupt
2150	8251 detected overrun error
2151	Lost data set ready during data wrap
2152	Receive time out during data wrap

**Cluster Adapter Errors:**

Code	Description
22xx	A cluster adapter error has occurred - replace the cluster adapter

**Plasma Monitor Adapter Errors:**

Code	Description
23xx	A plasma adapter display error has occurred - replace the plasma display monitor assembly

**Enhanced Graphics Adapter or Video Graphics Adapter Errors:**

Code	Description
2401	Video adapter test failure
2402	Video display error
2408	User indicated display attribute test failed
2409	Video display error
2410	Video adapter error; video port error
2416	User indicated character set test failed
2424	User indicated 80 x 25 mode failure
2432	User indicated 40 x 25 mode failure

2440	User indicated mode 320 x 200 mode failure
2448	User indicated 640 x 200 mode failure
2456	User indicated light pen test failure
2464	User indicated paging test failure

### Alternate Enhanced Graphics Adapter Errors:

Code	Description
2501	Video adapter test failure
2502	Video display error
2508	User indicated display attribute test failed
2509	Video display error
2510	Video adapter error; video port error
2516	User indicated character set test failed
2524	User indicated 80 x 25 mode failure
2532	User indicated 40 x 25 mode failure
2540	User indicated mode 320 x 200 mode failure
2548	User indicated 640 x 200 mode failure
2556	User indicated light pen test failure
2564	User indicated paging test failure

### XT or AT/370 370-M (Memory) and 370-P (Processor) Adapter Errors:

Code	Description
2601	370-M adapter error
2655	370-M adapter error
2657	370-M adapter error
2668	370-M adapter error
2672	370-M adapter error
2673	370-P adapter error
2674	370-P adapter error
2677	370-P adapter error
2680	370-P adapter error
2681	370-M adapter error
2682	370-P adapter error
2694	370-P adapter error
2697	370-P adapter error
2698	XT or AT/370 diagnostic diskette error

### XT or AT/370 3277-EM (Emulation) Adapter Error:

Code	Description
2701	3277-EM adapter error
2702	3277-EM adapter error
2703	3277-EM adapter error

### 3728/3729 Emulation Adapter or 3270 Connection Adapter Errors:

Code	Description
28xx	An emulation adapter fault has occurred - replace the adapter

### Color/Graphics Printer Errors:

Code	Description
29xx	A general fault has been detected with the printer or it's printer port - replace the adapter

**Primary PC Network Adapter Errors:**

Code	Description
3001	Network adapter test failure
3002	ROM checksum test failure
3003	Unit ID PROM test failure
3004	RAM test failure
3005	Host interface controller 9HIC) test failure
3006	+/- 12Vdc test failure
3007	Digital loopback test failure
3008	Host detected HIC failure
3009	Sync signal failure and no go bit
3010	HIC test OK and no go bit
3011	Go bit OK, but no command 41
3012	Card not present
3013	Digital failure fall through
3015	Analog failure
3041	Hot carrier on other card
3042	Hot carrier on this card

**Secondary PC Network Adapter Errors:**

Code	Description
3101	Network adapter test failure
3102	ROM checksum test failure
3103	Unit ID PROM test failure
3104	RAM test failure
3105	Host interface controller 9HIC) test failure
3106	+/- 12Vdc test failure
3107	Digital loopback test failure
3108	Host detected HIC failure
3109	Sync signal failure and no go bit
3110	HIC test OK and no go bit
3111	Go bit OK, but no command 41
3112	Card not present
3113	Digital failure fall through
3115	Analog failure
3141	Hot carrier on other card
3142	Hot carrier on this card

**3270 PC/AT Display Errors:**

Code	Description
32xx	A fault has been detected in the display system - replace the display system

**Compact Printer Errors:**

Code	Description
33xx	A fault has been detected in the printer or printer adapter - replace the printer or printer adapter

**Enhanced Display Station Emulation Adapter (EDSEA) Errors:**

Code	Description
3504	Adapter connected to twinaxial cable during offline test

3508	Workstation address error
3509	Diagnostic program failure
3540	Workstation address invalid
3588	Adapter address switch error
3599	Diagnostic program failure

### General Purpose Interface Bus (GPIB) Adapter Errors:

Code	Description
3601	Adapter test failure
3602	Serial poll mode register write error
3603	Adapter address error
3610	Adapter listen error
3611	Adapter talk error
3612	Adapter control error
3613	Adapter standby error
3614	Adapter asynchronous control error
3615	Adapter asynchronous control error
3616	Adapter error; cannot pass control
3617	Adapter error; cannot address to listen
3618	Adapter error; cannot unaddress to listen
3619	Adapter error; cannot address to talk
3620	Adapter error; cannot unaddress to talk
3621	Adapter error; cannot address to listen with extended addressing
3622	Adapter error; cannot unaddress to listen with extended addressing
3623	Adapter error; cannot address to talk with extended addressing
3624	Adapter error; cannot unaddress to talk with extended addressing
3625	Write to self error
3626	Generate handshake error
3627	Cannot detect Device Clear message error
3628	Cannot detect Selected Device Clear message error
3629	Cannot detect end with end of identify
3630	Cannot detect end of transmission with end of identify
3631	Cannot detect end with 0 bot end of string
3632	Cannot detect end with 7 bit end of string
3633	Cannot detect group execute trigger
3634	Mode 3 addressing error
3635	Cannot recognize undefined command
3636	Cannot detect remote, remote changed, lockout, or lockout changed
3639	Cannot conduct serial poll
3640	Cannot conduct parallel poll
3650	Adapter error; direct memory access (DMA) to 7210
3651	Data error; error on direct memory access (DMA) to 7210
3652	Adapter error; direct memory access (DMA) from 7210
3653	Data error on direct memory access (DMA) from 7210
3658	Uninvoked interrupt received
3659	Cannot interrupt on address status changed
3660	Cannot interrupt on address status changed
3661	Cannot interrupt on command output
3662	Cannot interrupt on data out
3663	Cannot interrupt on data in
3664	Cannot interrupt on error
3665	Cannot interrupt on device clear
3666	Cannot interrupt on end

3667	Cannot interrupt on device execute trigger
3668	Cannot interrupt on address pass through
3669	Cannot interrupt on command pass through
3670	Cannot interrupt on remote changed
3671	Cannot interrupt on lockout changed
3672	Cannot interrupt on service request in
3673	Cannot interrupt on terminal count on direct memory access to 7210
3674	Cannot interrupt on terminal count on direct memory access from 7210
3675	Spurious direct memory access terminal count interrupt
3697	Illegal direct memory access configuration setting detected
3698	Illegal interrupt level setting detected

### System Board SCSI Controller Errors:

Code	Description
37xx	the system board SCSI controller has failed - replace the motherboard

### Data Acquisition Adapter Errors:

Code	Description
3801	Adapter test failure
3810	Timer read test failure
3811	Timer interrupt test failure
3812	Binary input 13 test failure
3813	Binary input 13 test failure
3814	Binary output 14 interrupt request test failure
3815	Binary output 0 count in test failure
3816	Binary input strobe (STB) count out test failure
3817	Binary output 0 clear to send (CTS) test failure
3818	Binary output 1, binary input 0 test failure
3819	Binary output 2, binary input 1 test failure
3820	Binary output 3, binary input 2 test failure
3821	Binary output 4, binary input 3 test failure
3822	Binary output 5, binary input 4 test failure
3823	Binary output 6, binary input 5 test failure
3824	Binary output 7, binary input 6 test failure
3825	Binary output 8, binary input 7 test failure
3826	Binary output 9, binary input 8 test failure
3827	Binary output 10, binary input 9 test failure
3828	Binary output 11, binary input 10 test failure
3829	Binary output 12, binary input 11 test failure
3830	Binary output 13, binary input 12 test failure
3831	Binary output 15, analog input CE test failure
3832	Binary output strobe, binary output GATE test failure
3833	Binary input clear to send, binary output HOLD test failure
3834	Analog input command output (CO), binary input 15 test failure
3835	Counter interrupt test failure
3836	Counter read test failure
3837	Analog output 0 ranges test failure
3838	Analog output 1 ranges test failure
3839	Analog input 0 values test failure
3840	Analog input 1 values test failure
3841	Analog input 2 values test failure
3842	Analog input 3 values test failure
3843	Analog input interrupt test failure

3844	Analog input 23 address or value test failure
------	---

### Professional Graphics Adapter (PGA) Errors:

Code	Description
3901	PGA test failed
3902	ROM 1 self test failed
3903	ROM 2 self test failed
3904	RAM self test failed
3905	Cold start cycle power error
3906	Data error in communications RAM
3907	Address error in communications RAM
3908	Bad data reading/writing 6845 like register
3909	Bad data in lower E0h bytes reading/writing 6845 like registers
3910	Graphics controller display bank output latches error
3911	Basic clock error
3912	Command control error
3913	Vertical sync scanner error
3914	Horizontal sync scanner error
3915	Intech error
3916	Look up table address error
3917	Look up table red RAM chip error
3918	Look up table green RAM chip error
3919	Look up table blue RAM chip error
3920	Look up table data latch error
3921	Horizontal display error
3922	Vertical display error
3923	Light pen error
3924	Unexpected error
3925	Emulator addressing error
3926	Emulator data latch error
3927	Base for error codes 3928-3930
3928	Emulator RAM error
3929	Emulator RAM error
3930	Emulator RAM error
3931	Emulator horizontal/vertical display problem
3932	Emulator cursor position error
3933	Emulator attribute display problem
3934	Emulator cursor display error
3935	Fundamental emulation RAM problem
3936	Emulation character set problem
3937	Emulation graphics display error
3938	Emulation character display problem
3939	Emulation bank select error
3940	Adapter RAM U2 error
3941	Adapter RAM U4 error
3942	Adapter RAM U6 error
3943	Adapter RAM U8 error
3944	Adapter RAM U10 error
3945	Adapter RAM U1 error
3946	Adapter RAM U3 error
3947	Adapter RAM U5 error
3948	Adapter RAM U7 error
3949	Adapter RAM U9 error



3950	Adapter RAM U12 error
3951	Adapter RAM U14 error
3952	Adapter RAM U16 error
3953	Adapter RAM U18 error
3954	Adapter RAM U20 error
3955	Adapter RAM U11 error
3956	Adapter RAM U13 error
3957	Adapter RAM U15 error
3958	Adapter RAM U17 error
3959	Adapter RAM U19 error
3960	Adapter RAM U22 error
3961	Adapter RAM U24 error
3962	Adapter RAM U26 error
3963	Adapter RAM U28 error
3964	Adapter RAM U30 error
3965	Adapter RAM U21 error
3966	Adapter RAM U23 error
3967	Adapter RAM U25 error
3968	Adapter RAM U27 error
3969	Adapter RAM U29 error
3970	Adapter RAM U32 error
3971	Adapter RAM U34 error
3972	Adapter RAM U36 error
3973	Adapter RAM U38 error
3974	Adapter RAM U40 error
3975	Adapter RAM U31 error
3976	Adapter RAM U33 error
3977	Adapter RAM U35 error
3978	Adapter RAM U37 error
3979	Adapter RAM U39 error
3980	Graphics controller RAM timing error
3981	Graphics controller read/write latch error
3982	Shift register bus output latches error
3983	Addressing error (vertical column of memory; U2 at top)
3984	Addressing error (vertical column of memory; U4 at top)
3985	Addressing error (vertical column of memory; U6 at top)
3986	Addressing error (vertical column of memory; U6 at top)
3987	Addressing error (vertical column of memory; U8 at top)
3988	Addressing error (vertical column of memory; U10 at top)
3989	Horizontal bank latch errors
3990	Horizontal bank latch errors
3991	Horizontal bank latch errors
3992	RAG/CAG graphics controller error
3993	Multiple write modes; nibble mask errors
3994	Row nibble (display RAM) error
3995	Graphics controller addressing error

### Display Attachment Unit and 5279 Display Errors:

Code	Description
44xx	A fault has occurred with the display system - replace the display system

### IEEE 488 (GPIB) Interface Adapter Errors:

Code	Description
------	-------------

45xx	A fault has occurred with the GPIB - replace the adapter
------	--

### ARTIC Multiport/2 Interface Adapter Errors:

Code	Description
4611	ARTIC adapter error
4612/4613	Memory module error
4630	ARTIC adapter error
4640/4641	Memory module error
4650	ARTIC interface cable error

### Internal Modem Errors:

Code	Description
48xx	The internal modem has failed - replace the modem

### Alternate Internal Modem Errors:

Code	Description
49xx	The alternate internal modem has failed - replace the alternate internal modem

### PC Convertible LCD Errors:

Code	Description
5001	LCD buffer failure
5002	LCD font buffer failure
5003	LCD controller failure
5004	User indicated PEL/drive test failure
5008	User indicated display attribute test failed
5016	User indicated character set test failed
5020	User indicated alternate character set test failure
5024	User indicated 80 x 25 mode test failure
5032	User indicated 40 x 25 mode test failure
5040	User indicated 320 x 200 graphics test failure
5048	User indicated 640 x 200 graphics test failure
5064	User indicated paging test failure

### PC Convertible Portable Printer Errors:

Code	Description
5101	Portable printer interface failure
5102	Portable printer busy error
5103	Portable printer paper or ribbon error
5104	Portable printer time out
5105	User indicated print pattern test error

### Financial Communication System Errors:

Code	Description
56xx	A fault has been detected in the financial communication system - replace the financial communication system

### Phoenix BIOS/Chipset Specific Errors:

Code	Description
7000	Chipset CMOS failure

7001	Shadow RAM failure (ROM not shadowed to RAM)
7002	Chipset CMOS configuration data error

### Voice Communications Adapter (VCA) Errors:

Code	Description
7101	Adapter test failure
7102	Instruction or external data memory error
7103	PC to VCA interrupt error
7104	Internal data memory error
7105	DMA error
7106	Internal registers error
7107	Interactive shared memory error
7108	VCA to PC interrupt error
7109	DC wrap error
7111	External analog wrap and tone output error
7114	Telephone attachment test failure

### 3 1/2" Floppy Disk Drive Errors:

Code	Description
7301	Diskette drive/adaptor test failure
7306	Diskette change line error
7307	Write protected diskette
7308	drive command error
7310	Diskette initialization failure track 00 error
7311	Drive time out error
7312	NEC drive controller IC error
7313	DMA error
7314	DMA boundary overrun error
7315	Drive index timing error
7316	Drive speed error
7321	Drive seek error
7322	Drive CRC check error
7323	Sector not found error
7324	Address mark error
7325	NEC controller IC seek error

### 8514/A Display Adapter Errors:

Code	Description
7426	8514 display error
7440	8514/A memory module 31 error
7441	8514/A memory module 30 error
7442	8514/A memory module 29 error
7443	8514/A memory module 28 error
7444	8514/A memory module 22 error
7445	8514/A memory module 21 error
7446	8514/A memory module 18 error
7447	8514/A memory module 17 error
7448	8514/A memory module 32 error
7449	8514/A memory module 14 error
7450	8514/A memory module 13 error
7451	8514/A memory module 12 error
7452	8514/A memory module 06 error

7453	8514/A memory module 05 error
7454	8514/A memory module 02 error
7455	8514/A memory module 01 error
7460	8514/A memory module 16 error
7461	8514/A memory module 27 error
7462	8514/A memory module 26 error
7463	8514/A memory module 25 error
7464	8514/A memory module 24 error
7465	8514/A memory module 23 error
7466	8514/A memory module 20 error
7467	8514/A memory module 19 error
7468	8514/A memory module 15 error
7469	8514/A memory module 11 error
7470	8514/A memory module 10 error
7471	8514/A memory module 09 error
7472	8514/A memory module 08 error
7473	8514/A memory module 07 error
7474	8514/A memory module 04 error
7475	8514/A memory module 03 error

**4216 Page Printer Adapter Errors:**

Code	Description
7601	Adapter test failure
7602	Adapter card error
7603	Printer error
7604	Printer cable error

**PCMCIA Adapter Errors:**

Code	Description
8081	Presence test failure (PCMCIA revision number also checksum)
8082	PCMCIA register test failure

**PS/2 Speech Adapter Errors:**

Code	Description
84xx	A fault has occurred with the speech adapter - replace the speech adapter

**2MB XMA Memory Adapter Errors:**

Code	Description
85xx	A fault has occurred with the memory module - replace the memory module

**PS/2 Pointing Device Errors:**

Code	Description
8601	Pointing device: mouse time out error
8602	Pointing device: mouse interface error
8603	System board: mouse interrupt error
8604	Pointing device or system board error
8611	System bus error
8612	TrackPoint II error
8613	System bus or TrackPoint II error

**MIDI Interface Errors:**

Code	Description
89xx	A fault has occurred with the MIDI adapter - replace the MIDI adapter

**3363 Worm Optical Drive/Adapter Errors:**

Code	Description
91xx	A fault has occurred in the drive or adapter - replace the adapter or the drive

**SCSI Adapter (W/32 bit Cache):**

Code	Description
96xx	A fault has occurred with the SCSI adapter - replace the SCSI adapter

**Multiprotocol Adapter Errors:**

Code	Description
10001	Presence test failure
10002	Card selected feedback error
10003	Port 102h register test failure
10004	Port 103h register test failure
10006	Serial option cannot be disabled
10007	Cable error
10008	IRQ 3 error
10009	IRQ 4 error
10010	UART register failure
10011	Internal wrap test of UART control line failed
10012	External wrap test of UART control line failed
10013	UART transmit error
10014	UART receive error
10015	UART receive error - data not equal to transmit data
10016	UART interrupt error
10017	UART baud rate test failure
10018	UART receive external wrap test failure
10019	UART FIFO buffer failure
10026	8255 port A error
10027	8255 port B error
10028	8255 port C error
10029	8254 timer 0 error
10030	8254 timer 1 error
10031	8254 timer 2 error
10032	Bi-sync data set ready (DSR) response error
10033	Bi-sync clear to send(CTS) error
10034	8251 hardware reset test failed
10035	8251 function generator
10036	8251 status error
10037	Bi-sync timer interrupt error
10038	Bi-sync transmit interrupt error
10039	Bi-sync receive interrupt error
10040	Stray IRQ 3 error
10041	Stray IRQ 4 error
10042	Bi-sync external wrap error
10044	Bi-sync data wrap error
10045	Bi-sync line status error
10046	Bi-sync time out error during wrap test
10050	8273 command acceptance or time out error

10051	8273 port A error
10052	8273 port B error
10053	SDLC modem status logic error
10054	SDLC timer IRQ 4 error
10055	SDLC IRQ 4 error
10056	SDLC external wrap error
10057	SDLC interrupt results error
10058	SDLC data wrap error
10059	SDLC transmit interrupt error
10060	SDLC receive interrupt error
10061	DMA channel 1 transmit error
10062	DMA channel 1 receive error
10063	8273 status detect failure
10064	8273 error detect failure

### Internal 300/1200Bps Modem Errors:

Code	Description
10101	Presence detect failure
10102	Card selected feedback error
10103	Port 102h register test error
10106	Serial option cannot be disabled
10108	IRQ 3 error
10109	IRQ 4 error
10110	UART chip register failure
10111	UART control line internal wrap test failure
10113	UART transmit error
10114	UART receive error
10115	UART error - transmit and receive data not equal
10116	UART interrupt function error
10117	UART baud rate test failure
10118	UART interrupt driven receive external data wrap test failure
10125	Modem reset result code error
10126	Modem general result code error
10127	Modem S registers read/write error
10128	Modem echo on/off error
10129	Modem enable/disable result codes error
10130	Modem enable number/word result codes error
10133	Connect results for 300 baud not received
10134	Connect results for 1200 baud not received
10135	Modem fails local analog loopback 300 baud test
10136	Modem fails local analog loopback 1200 baud test
10137	Modem does not respond to escape/reset sequence
10138	S register 13 shows incorrect parity or number of data bits
10139	S register 15 shows incorrect bit rate

### ESDI or MCA IDE Fixed Disk or Adapter Errors:

Code	Description
10450	Read/write test failed
10451	read verify test failed
10452	Seek test failed
10453	Wrong drive type indicated
10454	Controller sector buffer test failure
10455	Controller invalid failure

10456	Controller diagnostic command failure
10461	Drive format error
10462	Controller head select error
10463	Drive read/write sector error
10464	Drive primary detect map unreadable
10465	Controller: error-correction code (ECC) 8 bit error
10466	Controller: error correction code (ECC) 9 bit error
10467	Drive soft seek error
10468	Drive head seek error
10469	Drive soft error count exceeded
10470	Controller attachment diagnostic error
10471	Controller wrap mode interface error
10472	Controller wrap mode drive select error
10473	Read verify test errors
10480	Seek failure: drive 0
10481	Seek failure: drive 1
10482	Controller transfer acknowledge error
10483	Controller reset failure
10484	Controller: head select 3 error
10485	Controller: head select 2 error
10486	Controller: head select 1 error
10487	Controller: head select 0 error
10488	Controller: read gate - command complete 2 error
10489	Controller: write gate - command complete 1 error
10490	Diagnostic area read error: drive 0
10491	Diagnostic area read error: drive 1
10492	Controller error, drive 1
10493	Reset error, drive 1
10499	Controller failure

### 5 1/4 External Disk Drive or Adapter Errors:

Code	Description
107xx	A fault has occurred with the external disk drive or adapter - replace the disk drive or adapter

### SCSI Adapter (16 bit without Cache) Errors:

Code	Description
112xx	A fault has occurred with the SCSI adapter - replace the SCSI adapter

### System Board SCSI Adapter Errors:

Code	Description
113xx	A fault has occurred with the system board SCSI adapter - replace the motherboard

### Processor Complex Errors:

Code	Description
129005	DMA error
12901	Processor board: processor test failure
12902	Processor board: cache test failure
12904	Second level cache failure
12905	Cache enable/disable errors
12907	Cache fatal error

12908	Cache POST program error
12912x	Hardware failure
12913x	Micro channel bus time out
12914x	Software failure
12915x	Processor complex error
12916x	Processor complex error
12917x	Processor complex error
12918x	Processor complex error
12919x	Processor complex error
12940x	Processor complex failure
12950x	Processor complex failure
129900	Processor complex serial number mismatch

### **P70/P75 Plasma Display and Adapter Errors:**

Code	Description
14901	Plasma display adapter failure
14902	Plasma display adapter failure
14922	Plasma display failure
14932	External display device failure

### **XGA Display Adapter Errors:**

Code	Description
152xx	A fault has occurred with the XGA display adapter - replace the display adapter

### **120MB Internal Tape Drive Errors:**

Code	Description
164xx	A fault has occurred with the internal tape drive - replace the tape drive

### **6157 Streaming Tape Drive Errors:**

Code	Description
16520	Streaming tape drive failure
16540	Tape attachment adapter failure

### **Primary Token Ring Network Adapter Errors:**

Code	Description
166xx	A fault has occurred with the network adapter - replace the network adapter

### **Alternate Token Ring Network Adapter Errors:**

Code	Description
167xx	A fault has occurred with the network adapter - replace the network adapter

### **PS/2 Wizard Adapter Errors:**

Code	Description
18001	Interrupt controller failure
18002	Incorrect timer count
18003	Timer interrupt failure
18004	Sync check interrupt failure
18005	Parity check interrupt failure
18006	Access error interrupt failure



18012	Bad checksum error
18013	Micro Channel interface error
18021	Wizard memory compare or parity error
18022	Wizard memory address line error
18023	Dynamic RAM controller error
18029	Wizard memory byte enable error
18031	Wizard memory expansion module memory compare or parity error
18032	Wizard memory expansion module byte enable error
19039	Wizard memory expansion module byte enable error

**DBCS Japanese Display Adapter Errors:**

Code	Description
185xx	A fault has occurred with the display adapter - replace the display adapter

**80286 Memory Expansion Option Module Errors:**

Code	Description
194xx	A fault has occurred with the memory module - replace the memory module

**Image Adapter Errors:**

Code	Description
200xx	A fault has occurred with the image adapter - replace the image adapter

**Unknown SCSI Device Errors:**

Code	Description
208xx	A fault has occurred in an unknown SCSI adapter - replace the unknown SCSI adapter

**SCSI Removable Media Errors:**

Code	Description
209xx	A fault has occurred in the SCSI removable disk - replace the removable disk

**SCSI Fixed Disk Errors:**

Code	Description
210PLSC	"PLSC" codes indicate errors
	P = SCSI ID number (Physical Unit Number or PUN)
	L = Logical unit number (LUN, usually 0)
	S = Host adapter slot number
	C = SCSI drive capacity
	A = 60MB
	B = 80MB
	C = 120MB
	D = 160MB
	E = 320MB
	F = 400MB
	H = 1.02MB (1GB)
	I = 104MB
	J = 212MB
	U = Undetermined or non IBM OEM drive

**SCSI Tape Drive Errors:**

Code	Description
211xx	A fault has occurred with the SCSI tape drive - replace the SCSI tape drive

**SCSI Printer Errors:**

Code	Description
212xx	A fault has occurred with the SCSI printer - replace the SCSI printer

**SCSI Processor Errors:**

Code	Description
213xx	A fault has occurred with the SCSI adapter processor - replace the SCSI adapter

**SCSI Write Once Read Multiple (WORM) Drive Errors:**

Code	Description
214xx	A fault has occurred with the SCSI WORM drive - replace the SCSI WORM drive

**SCSI CD-ROM Drive Errors:**

Code	Description
215xx	A fault has occurred with the SCSI CD-ROM drive - replace the SCSI CD-ROM drive

**SCSI Scanner Errors:**

Code	Description
216xx	A fault has occurred with the SCSI Scanner - replace the SCSI Scanner

**SCSI Magneto Optical Drive Errors:**

Code	Description
217xx	A fault has occurred with the SCSI Magneto Optical Drive - replace the drive

**SCSI Jukebox Changer Errors:**

Code	Description
218xx	A fault has occurred with the SCSI Jukebox Changer - replace the device

**SCSI Communications Errors:**

Code	Description
219xx	A fault has occurred with the SCSI Communications device - replace the device

**XGA-2 Adapter Errors:**

Code	Description
243xxxx	A fault has occurred with the XGA-2 adapter - replace the adapter

**Dynamic Configuration Select (DCS) Information Codes:**

Code	Description
I998001x	Bad integrity of DCS master boot record
I988002x	Read failure of DCS master boot record
I988003x	DCS master boot record is not compatible with the planar ID
I988004x	DCS master boot record is not compatible with the model/submodel byte
I988005x	Bad integrity of CMOS/NVRAM or internal process error

I988006x	Read failure of header/mask/configuration record
I988007x	Bad integrity of header/mask/configuration record
I988008x	Hard disk does not support the command to set the maximum RBA
I988009x	DCS master boot record is older than system ROM
I9880402	Copyright notice in E000 segment does not match the one in DCS MBR
I9880403	DCS MBR is not compatible with the system board ID or model/submodel byte

### Initial Microcode Load (IML) Errors:

Code	Description
I999001x	Invalid disk IML error
I999002x	Disk IML record load error
I999003x	Disk IML record incompatible with system board
I999004x	Disk IML record incompatible with processor/processor card
I999005x	Disk IML not attempted
I999006x	Disk stage II system image load error
I999007x	Disk stage II image checksum error
I999008x	IML not supported on primary disk drive
I999009x	Disk IML record is older than ROM
I99900x1	Invalid diskette IML record
I99900x2	Diskette IML record load error
I99900x3	Diskette IML record incompatible with system board
I99900x4	Diskette IML record incompatible with processor board
I99900x5	Diskette IML recovery prevented (valid password and CE override not set)
I99900x6	Diskette stage II image load error
I99900x7	Diskette stage II image checksum error
I99900x9	Diskette IML record older than ROM

### No Bootable Device, Initial Program Load (IPL) Errors:

Code	Description
I9990301	Hard disk error
I9990302	Invalid disk boot record, unable to read IPL boot record from disk
I9990303	IML system partition boot failure
I9990304	No bootable device with ASCII console
I9990305	No bootable device
I9990306	Invalid SCSI Device boot record
I9990401	Unauthorized access (manufacturing boot request with valid password)
I9990402	Missing ROM IBM copyright notice
I9990403	IML Boot record incompatible with system board/processor card