

IBM PC-PS/2 Hardware Error Codes List

0001xxxx on a 90 or 95 means System Unit error --
Processor Board or System Board

000102XX on a 90 or 95 means System Unit error

00010300 on a 90 or 95 means Processor Board. If a 20-MHz board is
installed, and the processor is not a 487SX, verify that the jumper
is in positions 2 and 3. (487SX is indicated on the processor.)

000104XX on a 90 or 95 means System Board

000107XX or 000110XX on a 90 or 95 means System Board Memory or System Board

000112XX or 000113XX on a 90 or 95 means check adapters then System Board

000114XX on a 90 or 95 means SCSI Adapter

00011600 (Fatal) - on a 90 or 95 means planar board port read/write failure

00011800 on a 90 or 95 means Memory/planar board parity or L2 cache NMI error
logged, critical error log entry exists

00011900 (Fatal) - on a 90 or 95 means Downlevel 82077 diskette controller

00012000 (Fatal) - on a 90 or 95 means Processor self test error

00016100 on a 90 or 95 means Dead battery

000163XX, 000164XX, 000165XX or 000169XX means Set Configuration/Features.
Run SETUP. If not successful, check System Board

000166XX on a 90 or 95 means an adapter is failing

00017000 on a 90 or 95 means ASCII setup conflict

00017100 (Fatal) - on a 90 or 95 means Rolling bit test failure on CMOS
shutdown address byte

00017200 (Fatal) - on a 90 or 95 means Rolling bit test failure on NVRAM
diagnostic byte

00017300 on a 90 or 95 means Bad CMOS/NVRAM checksum.
Verify the Enable and Disable Settings

00017400 on a 90 or 95 means Bad configuration, changed device. If Automatic
configuration does not solve the problem, run Advanced Diagnostics.

00017900 on a 90 or 95 means NVRAM Error Log contains maximum log entries,
clear system error log

000194XX Check System Board then check System Board Memory

0002xxxx on a 90 or 95 means System Memory error

00020XXX on a 90 or 95 means System Board Memory

000210XX or 000211X on a 90 or 95 means Processor Board or System Board
Memory

000215XX, 000216XX, 000225XX, 000226XX, 000240XX or 000255XX on a 90 or 95
means System Board Memory or System Board

000252XX on a 90 or 95 indicates system board problem. Even it Intermittent

error, Run advanced memory diagnostics in loop mode.

00029100 on a 90 or 95 may be corrected by running Automatic Configuration
There is a Checksum value mismatch

00029200 on a 90 or 95 may be corrected by running Automatic Configuration
There is a Checksum value mismatch

00029300 on a 90 or 95 may be corrected by running Automatic Configuration
There is a Checksum value mismatch

00029400 on a 90 or 95 may be corrected by running Automatic Configuration
There is a Checksum value mismatch

000295XX or 000296XX on a 90 or 95 means System Board Memory or System Board

000298XX on a 90 or 95 means System Board or System Board Memory

000301XX or 000302XX on a 90 or 95 means Keyboard, Keyboard Cable or
the System Board

000303XX on a 90 or 95 means System Board, Keyboard or Keyboard Cable

000304XX on a 90 or 95 means System Board or Keyboard

000305XX on a 90 or 95 means Keyboard Cable (Keyboard voltage error)

00030600 on a 90 or 95 means Unsupported keyboard attached

000401xx on a 90 or 95 means parallel port error -- replace planar

0006xxxx on a 90 or 95 means Diskette (media), diskette drive or Power Supply

000602XX on a 90 or 95 means Defective diskette

0007XXXX on a 90 or 95 means defective Math Coprocessor or Processor Board

0011xxxx on a 90 or 95 means primary async port error -- replace planar

001102XX or 001106XX on a 90 or 95 means System Board or any serial device

001107XX on a 90 or 95 means Communications Cable or System Board

001108XX or 001109XX on 90 or 95 means system board or any serial device

001202XX or 001206XX on a 90 or 95 means Dual Async Adapter/A or any serial
device

001207XX on a 90 or 95 means Communications Cable or Dual Async Adapter/A

001208XX or 001209XX on a 90 or 95 means Dual Async Adapter/A or any serial
device

0014xxxx on a 90 or 95 means printer error or system board

004611XX or 004630XX on a 90 or 95 means Multiport/2 Interface Board or
Multiport/2 Adapter

004612XX, 004613XX, 004640XX or 004641XX on a 90 or 95 means Memory Module
Package or Multiport/2 Adapter

004650XX on a 90 or 95 means Multiport interface cable

007509XX on a 90 or 95 means Display or XGA Display Adapter/A

007510XX on a 90 or 95 means XGA Display Adapter/A, Video Memory Module or
System Board

00860xxx on a 90 or 95 means mouse error (see 860x error codes)

008601XX or 008602XX on a 90 or 95 means System Board or Pointing device

008603XX on a 90 or 95 means System Board

008604XX on a 90 or 95 means System Board or Pointing device
0096xxxx on a 90 or 95 means SCSI error (see SCSI error codes at end)
010002XX or 010006XX means 90 or 95 Multiprotocol Adapter/A or any serial device
010007XX on a 90 or 95 means Communications cable or Multiprotocol Adapter/A
010008XX or 010009XX on a 90 or 95 means Multiprotocol Adapter/A or any serial device
010102XX, 010106XX, 010108XX or 010109XX on a 90 or 95 means Modem Adapter/A or any serial device
0107XXXX on a 90 or 95 means 5.25 Inch Diskette Drive or 5.25 Inch Diskette Adapter/A
0112xxxx on a 90 or 95 means SCSI error (see SCSI error codes at end)
0129XXXX on a 90 or 95 could mean Processor Board Cache (256KB), Processor Board or System Board
0129x3xx Busmaster arbitration error. If more than one installed, remove busmasters one at a time to isolate the failure
01290400 L2 cache parity
01291200 WATCHDOG TIMEOUT
0129x3xx Busmaster arbitration error. If more than one installed, remove busmasters one at a time to isolate the failure
01291300 DMA BUS TIMEOUT
01291400 DMA SCB ERROR
01291500 Processor bus parity error
01291600 System bus parity error
012917xx Processor board cache error -- if a 20Mhz board is installed and the processor is a 487SX, verify that the jumper is in positions 1 and 2.
If not processor board cache (256K), replace processor board or system brd
01291700 on a 90 or 95 means processor board. If a 20-MHz board is installed, and the processor is a 487SX, verify that the jumper is in positions 1 and 2. (487SX is indicated on the processor.)
01291800 Invalid configuration error
01291900 Voltage regulator problem; too hi/lo
0129300 Model 90/95 only, jumper J4 on the wrong pins
01293000 (Fatal) - on a 90 or 95 means Processor board EEPROM selection jumper is currently selecting Stage2 POST to begin POST execution, switch the jumper
0129x3xx Busmaster arbitration error. If more than one installed, remove busmasters one at a time to isolate the failure
012940xx Processor board
0129x3xx Busmaster arbitration error. If more than one installed, remove busmasters one at a time to isolate the failure
012944xx A hardware default interrupt occurred

012950xx Processor board
 0129x3xx Busmaster arbitration error. If more than one installed, remove busmasters one at a time to isolate the failure
 01299000 on a 90 or 95 means Vital Product Data processor board error
 0129x3xx Busmaster arbitration error. If more than one installed, remove busmasters one at a time to isolate the failure
 01308200 on a 90 or 95 means characters on info panel are in error
 0137xxxx on a 90 or 95 means secondary async port error -- replace planar
 0141XXXX on a 90 or 95 means Realtime Interface, Coprocessor or Portmaster Adapter/A
 0147XXXX, 0152XXXX on a 90 or 95 means XGA Display Adapter/A, Video Memory Module or System Board
 0164XXXX on a 90 or 95 means 120MB Internal Tape Drive Diskette Cable System Board
 016500XX on a 90 or 95 means 6157 Tape-Attachment Drive or Adapter
 016520XX on a 90 or 95 means 6157 Streaming-Tape Drive
 016540XX on a 90 or 95 means 6157 Streaming-Tape Drive or 6157 Tape-Attachment Adapter
 0166XXXX or 0167XXXX on a 90 or 95 means Token-Ring Network Adapter/A or system board
 0200XXXX on a 90 or 95 means Image Adapter/A, Video-Memory Module or System Board
 0208XXXX on a 90 or 95 means Any SCSI Device. Verify there are no duplicate SCSI ID settings. See SCSI errors below.
 0210xxxx on a 90 or 95 means SCSI hard file error (see SCSI errors at end)
 0211XXXX on a 90 or 95 means SCSI Tape Drive, SCSI Adapter or SCSI Cable
 0215XXXX on a 90 or 95 means SCSI CD-ROM Drive, SCSI Adapter or SCSI Cable
 0217XXXX on a 90 or 95 means SCSI Rewritable Optical Drive, SCSI Adapter or SCSI Cable
 I99900XX on the 90 or 95 information panel. Verify an operating system has been loaded onto the default hard disk drive.
 I999001X Invalid hard disk Initial Microcode Load record
 A valid master IML record was not found on the hard disk
 I9990015 on a 90 or 95 followed by 96-8N1 means that the system could find no output display. Check that cable is connected.
 I999002X Hard Disk Initial Microcode Load Record Load Error
 I999003X Incompatible Disk Initial Microcode Load Record/Planar. The Initial Microcode Load boot record loaded from the hard disk did not have a planar ID matching the system.
 I999004X Disk IML record incompatible with processor board
 I999005X Disk IML not attempted
 I999006X Disk stage 2 image load read error

I999007X Disk stage 2 checksum (read) error
I999009X System Board BIOS newer than Disk IML Partition
I99900X1 Invalid Diskette Initial Microcode Load Record. A valid master
Initial Microcode Load record was not found on the diskette.
I99900X2 Diskette Initial Microcode Load Record Load Error
I99900X3 Incompatible Diskette Initial Microcode Load Record/Planar. The
Initial Microcode Load boot record loaded from diskette did not have
a planar ID matching the system.
I99900X4 Incompatible Diskette Initial Microcode Load Record/Processor Card.
The Initial Microcode Load boot record loaded from diskette did not
have model/submodel byte value matching the system.
I99900X5 Diskette Initial Microcode Load Not Attempted. Diskette IML was
not attempted because of a fatal disk IML error or active system
security.
I99900X6 Diskette POST/BIOS/BASIC Image Load Error. The system image could
not be loaded from the diskette.
I99900X7 Diskette stage 2 IML checksum error
I99900X9 System Board BIOS newer than Diskette BIOS
I9990301 No bootable device, hard disk, or diskette
I9990302 Invalid disk boot record (Missing operating system)
I9990303 System partition boot failure
I9990304 No bootable device with ASCII Console
I9990305 No Startable device found, verify startup sequence
I9990306 Invalid CDROM or R/W optical drive error
I9990401 Unauthorized access, clear Power On Password
I9990402 Missing IBM copyright notice, alternate processor error
I9990403 Incompatible Disk Initial Microcode Load Record. The IBM ROM IML
routine would have detected incompatible incompatible IML record.
The ROM may not be an IBM ROM so the system access error is
generated.
I99906xx IBM overlay errors
I99980xx ThinkPad system partition error

101 Main system board failure/Processor error.
PS/2 - Interrupt failure
PCC - Interrupt controller failure
102 BIOS ROM checksum error. (Try reseating the ROM chips?)
PS/2 - Timer failure or Real time clock 64 byte CMOS RAM test
PCC - System timer 2 failure
103 BASIC ROM(s) checksum error.
PS/2 - Timer interrupt failure or 2Kb CMOS RAM test

PCC - System timer 0 failure
 104 8259 interrupt controller error.
 PS/2 - Protect mode failure or Real time clock timing test
 105 8253 timer error.
 PS/2 - last 8042 command not accepted
 PCC - DMA controller failure
 106 (PS/2) Converting logic test failure
 107 Interrupt failure on 339 AT
 Remove cards one at a time until you find the failing adapter.
 If problem persists after all cards except Fixed Disk adapter,
 or the primary display adapter, then the system board is failing.
 PS/2 - Hot NMI test
 108 (PS/2) Timer bus test
 (PCAT) Memory error, or memory too slow for CPU
 109 Direct memory access test error
 PS/2 - Low meg chip select test or DMA or arbitration error
 110 (PS/2) Planar parity
 111 (PS/2) I/O parity or 80286 type protect mode test
 -- POSSIBLE IMAGE ADAPTER error if (See 20000 series messages)
 111/???? is a Channel I/O Ready line problem with the 5250 emulation card. A
 new ADF file for the card is necessary. It should be version 1.01, not 1.00
 What 111 really means is that an NMI was signalled and the source
 was the ILOCK line (on PC) or the CHCK line (on MicroChannel).
 On PCs, this was pulled by parity error detected on memory expansion
 cards. On MicroChannel PS/2s, there may be other cards which pull this
 error line active for other reasons.
 If you have a memory expansion card, this is very likely to be the source.
 The system BIOS cannot determine what card caused the problem.
 Possible fix -- replace 3 chip SIMMS with 9 chip SIMMS (especially for OS/2)
 112 (PS/2) Watchdog time out or Test 80386 new extended registers
 113 (PS/2) DMA arbitration time out or Test 80386 new instructions
 The hard disk drive may have to be replaced
 There is a Retain reference for the PS/2 model 55: H064377

NOTE: "0002 1130" is basically a "211" error code, which is a memory error
 on the planar. The "3" indicates SIMM socket A2 (1=A1,2=B1,3=A2 etc) and the
 last character ("0") gives the SIMM speed.
 Alternately this could be a DOS error -- see above on internal stack overflow
 Also, it is possible that a PS/2 113 error can arise from certain
 programming routines used with a Soundblaster MCV.

114 (PS/2) External ROM checksum error or Test 80386 32-bit addressing mode

115 (PS/2) Test 80386 protect mode (80386 TSSs, VM8086, Paging)
 116 (PS/2) Test 80386 16/32 bit (mult., div., sub., add)
 118 (PS/2) Logged memory error - run Adv Diags (90 and 95)
 119 (PS/2) 2.88MB diskette drive is installed but not supported
 120 (PS/2) Processor self test failed
 121 Unexpected hardware interrupts occurred.
 (PS/2) Test Hot reset of processor (via port 90H)
 129 (PS/2) Processor has been changed. Run Configuration.
 0129 1200 means that a watchdog timeout occurred. This usually indicates
 (1) a runaway application or (2) an errant system board.
 0129 1300 Indicates that a MicroChannel bus timeout has occurred -- see 12913
 131 Cassette wrap test failed.
 PS/2 - Test DMA compatibility registers
 132 (PS/2) Test DMA extended registers
 133 (PS/2) Test DMA verify logic
 134 (PS/2) Test DMA arbitration logic
 141 PS/2 - System-status display assembly. 80% chance it's the system board
 151 SYSTEM BOARD Real Time Clock Failure (or CMOS ERROR on 5170 -- PC/AT)
 152 (PS/2) Real time clock or CMOS error -- run diagnostics from a cold boot
 WITHOUT a password installed -- you can get a 152 error when trying to test
 the LOCKED area of the CMOS Real-Time Clock chip that CONTAINS the password.
 (Try it with the password removed, and from a cold-boot. If you still
 get a 152, you might have to replace either the battery or the planar)
 153 (PS/2) Battery failure
 160 (PS/2) Planar ID not recognized
 (Check that the I/O channel riser card is firmly plugged in)
 161 AT systems options not set (run SETUP)
 PS/2 - Battery dead or not connected
 162 AT systems options not set (run SETUP) << See 164
 PS/2 - Systems options not set (Run Configuration)
 163 AT time & date not set (run SETUP)
 PCC - Real-time clock not updating
 164 AT memory size error -- To correct it, run SETUP on Diagnostics Disk
 PS/2 - Memory Size error (run Setup on Reference Disk)
 Make sure that external units (like disk drives) are powered on before
 powering up the system unit -- you may want to leave your external
 drive on
 "System options are not set" means that "the configuration stored in the CMOS
 doesn't match reality" but also that the code thinks that the rest of the
 system is usable - and will run diagnostics for whatever it can find - memory
 check, drive check, etc.
 Computers are unreasonable, so minor details can cause major trouble.

You'll need the installation ("options") diskettes for any extra hardware that's been added (modems, etc.).

165 PS/2 - systems options not set - card ID mismatch (run SETUP)

166 PS/2 - card busy error

167 PS/2 - clock not updating

If you are continually losing SETUP data, it means either the battery is low or not connected in some way OR the system board CMOS memory is defective which requires getting the system board replaced. It nearly always is the battery or the battery connections.

168 - PS/2 model 55 -- a medialess box with a faulty RIPL ROM.

169 (PS/2) Planar/processor card mismatch (Run SETUP)

170 (PCC) LCD not in use when suspended (possible operator error)
(PS/2) ASCII setup conflict

171 (PCC) Base 128K checksum failure
(PS/2) Failed I/O addressing test - may be battery failure

172 (PCC) Diskette active when suspended (possible operator error)
(PS/2) System Board

173 (PCC) Real-time clock RAM verification error
(PS/2) CMOS checksum error (Run SETUP)

174 (PCC) LCD configuration changed (possible operator error)
(PS/2) Bad configuration (Run SETUP)

175 (PS/2) Security error - the system board EEPROM failed

176 (PS/2) Security error - the tamper-evident switch was tripped. This usually means that the covers were removed without using a key

177 (PS/2) Security error - passwords corrupted

178 (PS/2) Security error - passwords corrupted

179 (PS/2) The system error log is full -- clear the error log

181 (PS/2) Boot error - no RIPL adapter or SCSI hard disk (ID 6) found

182 (PS/2) Privileged-access password jumper in wrong position

183 (PS/2) Must enter Privileged-access password, not power-on password

184 (PS/2) The power-on password is corrupted

185 (PS/2) The selectable startup sequence is corrupted

186 (PS/2) Security error

187 (PS/2) Vital Product Data (VPD) error - system serial number corrupt

188 (PS/2) VPD error -- run Automatic Configuration

189 (PS/2) The wrong password was entered 3 times. Clear the system error log and restart the system.

190 (PS/2) System board error

191 (PS/2) Failed 82385 cache test

192 (N51) Lid switch error
(Thinkpad) Voltage converter error

193 (PS/2) System board memory error

194 (PS/2) System board memory error or riser error (model 90)
199 User indicated configuration not correct.
201 Memory test failed
The ERROR shows the bank number in the leading characters
5150/4450 (PC-1) Failing Memory Module Bit/Bank Location: 16-64K planar
Code: xyzz 201 if x=0, then the failing memory is on the planar
for x=0, y=0 -> Bank 0 (row closest to the expansion card slots)
for x=0, y=4 -> Bank 1 (2nd row from the expansion card slots)
for x=0, y=8 -> Bank 2 (3rd row from the expansion card slots)
for x=0, y=C -> Bank 3 (row closest to the speaker connector)

zz=00 -> Parity Bit - chip on the left side of planar (keyboard
connector is on top)

zz=01 -> Bit 0 - chip to right of Parity Bit

zz=02 -> Bit 1 - chip to right of Bit 0

zz=04 -> Bit 2 - chip to right of Bit 1

zz=08 -> Bit 3 - chip to right of Bit 2

zz=10 -> Bit 4 - chip to right of Bit 3

zz=20 -> Bit 5 - chip to right of Bit 4

zz=40 -> Bit 6 - chip to right of Bit 5

zz=80 -> Bit 7 - chip to right of Bit 6

(PC-2) Failing Memory Module Bit/Bank Location: 64-256K planar
Code: xyzz 201 if x=0-3, then the failing memory is on the planar
for x=0-3, y=0 -> Bank 0 (row closest to the expansion card slots)
for x=0-3, y=1 -> Bank 1 (2nd row from the expansion card slots)
for x=0-3, y=2 -> Bank 2 (3rd row from the expansion card slots)
for x=0-3, y=3 -> Bank 3 (row closest to the speaker connector)

The zz codes are exactly the same as the PC-1 mapping

5160/5155/XT370/5531/4455 Failing Memory Module Bit/Bank Location:
(64-256K planars OR 256-640K planars)
Code: xbbbb zz 201 if x=0-3, then the failing memory is on the planar

The zz codes are exactly the same as the PC-1 mapping

20NxP (PS/2) if the P digit/letter is in the range "G" to "V", the
processor board is probably bad (model 90/95)
N points to the likely failing SIMM, P is the size/speed detected
For:
N=1 Socket Unknown N=2 Suspect Socket A1 N=3 Suspect Socket B1

N=4 Suspect Socket A2 N=5 Suspect Socket B2 N=6 Suspect Socket A3
N=7 Suspect Socket B3 N=8 Suspect Socket A4 N=9 Suspect Socket B4
For:
P=0 Size/Speed Unknown P=4 4MB, 85ns memory P=5 2MB, 85ns memory
P=6 1MB, 85ns memory P=8 8MB, 80ns memory P=9 2MB, 80ns memory
P=A 8MB, 80ns memory P=B 8MB, 70ns memory P=C 2MB, 70ns memory

201 (PS/2) Data miscompare, parity error or bad adapter

PCC - Memory pattern test failure

202 (PS/2) Memory address error

PCC - Memory address test failure

203 (PS/2) Memory address error or refresh failure

204 (PS/2) Relocated memory (run diagnostics again)

205 (PS/2) CMOS error

207 (PS/2) ROM failure

210 (PS/2) Parity error in base 64K

NOTE: "0002102C 00000" is basically a "210" error code, which is a memory error on the planar. The "2C" should be interpreted as:

2 - Planar SIMM socket B1 (on a 90 that's in J3 on the card in J11)

C - Parity type SIMM, 2 Meg, 70 ns

211 (PS/2) Base 64k on I/O channel failed

00021100 I/O channel check

00021400 single bit error

214 (PS/2) Probable memory error, may be system/processor board

215 (PS/2) Base 64k on daughter card 2 card failed

On a PS/2 Mod 80 if you remove the memory card from a configured system and plug it into the 'other' slot (either by mistake or deliberately), you will get a 215/216 error during POST. You will not be able to run SETUP.

Fix the problem by moving the card back to the other slot.

If you really want to change the position, you will either have to disconnect the battery (for a long time) or configure the machine with TWO memory cards and then remove the one that you don't want and reconfigure it with one again.

216 (PS/2) Base 64k on daughter card 1 card failed -- See comment on 215 above

217 (PS/2) Multibit ECC error

221 Machine error when copying the BIOS into RAM (8580-111 only).

ROM to RAM remap error. An error occurred when the system checked the 128KB that was to accept a copy of the ROM. This is a latching error; once the error is detected, the system will no longer try to move the ROM to RAM until diagnostics (SETUP) are run to clear the error.

225 Some of your memory may be defective or not fast enough for your machine.

226 (PS/2) Memory error

231 EMO memory error indicating either a defective 80386 Memory Expansion
Option card or defective memory module(s) on the EMO card.

235 (PS/2) Probable memory error, may be system/processor board

240 (PS/2) Memory error

241 Incompatible or unrecognized memory module installed on 80386 Memory
Expansion Option. Unsupported SIMM. The 1M SIMM from the model 70 planar
is not supported because it is too slow

251 Location of memory modules or amount of memory installed on 80386 Memory
Expansion Option card has been changed. System must be reconfigured.

255 (PS/2) Memory error

290 (PS/2) Unsupported memory combination detected

291 (PS/2) Checksum value mismatch

292 (PS/2) Checksum value mismatch

293 (PS/2) Checksum value mismatch

294 (PS/2) Checksum value mismatch

295 (PS/2) Check memory for an unsupported configuration or modules

296 (PS/2) Check memory for an unsupported configuration or modules

298 (PS/2) Checksum value mismatch

301 Keyboard did not respond to software reset correctly or a stuck
key failure was detected. If a stuck key was detected, the scan
code for the key is displayed (as "301 xx" or "xx-0301").

301 (PCC) xx Stuck key detected (xx indicates internal scan code)
(PS/2) Keyboard error -- replace if same error with DIAGNOSTICS

302 User indicated error from the keyboard test.

303 (PS/2) Keyboard or system board error
PCC - Keyboard controller failure

304 (PS/2) System board error
PCC - Keyboard cable not attached

305 (PS/2) Keyboard +5v error or external keypad error

306 (PS/2) Unsupported Keyboard

307 (PS/2) Unsupported keyboard or auxiliary input device

308 (PS/2) Bad numeric keypad or system board

324 Replace portion of keyboard cable between system unit and screw coupling

345 (No definition provided)
On a 3270PC AT which generated 345s on POSTs (only when warm), the CE
replaced the driver board for the keyboard which cured the problem.

365 KEYBOARD Replace Keyboard

366 KEYBOARD Replace Interface Cable

367 KEYBOARD Replace Enhancement Card or Cable

401 Monochrome memory test, horizontal sync frequency test, or video
test failed.

PS/2 - CRT error or parallel port error -- call out System Board

408 User indicated display attributes failure.
416 User indicated character set failure.
424 User indicated 80X25 mode failure.
432 Parallel port test failed (monochrome adapter).
5xx (PCC) Color/graphics adapter failure (Not within system unit)
501 Color memory test failed, horizontal sync frequency test, or
video test failed.
PS/2 - CRT error
508 User indicated display attribute failure.
516 User indicated character set failure.
524 User indicated 80x25 mode failure.
532 User indicated 40x25 mode failure.
540 User indicated 320x200 graphics mode failure.
548 User indicated 640x200 graphics mode failure.
556 COLOR ADAPTER Light pen test failed.
564 COLOR ADAPTER User indicated screen paging test failure.
601 Diskette power on diagnostics test failed.
PS/2 - Diskette drive or controller error
PCC - Diskette controller or drive failure
602 Diskette test failed
PS/2 - Diskette boot record error
604 Non-Media Sense Diskette Drive Installed
604 (PS/2 M57) 1.2M floppy disk drive interface pin 4, 9, 17, or 27 is either
grounded or driven low when all drives are de-selected
606 Diskette verify function failed.
607 Write protected diskette.
608 Bad command diskette status returned.
610 Diskette initialization failed.
611 Timeout - diskette status returned.
612 Bad NEC - diskette status returned.
613 Bad DMA - diskette status returned.
614 DISKETTE DMA boundary software problem.
621 Bad seek - diskette status returned.
622 Bad CRC - diskette status returned.
623 Record not found - diskette status returned.
624 Bad address mark - diskette status returned.
625 Bad NEC seek - diskette status returned.
626 Diskette data compare error.
627 DISKETTE Diskette line change error
628 DISKETTE Diskette removed (invalid media type)
630 (PS/2) Index stuck HI (drive A)
631 (PS/2) Index stuck LO (drive A)

632 (PS/2) Track 0 stuck off (drive A)
633 (PS/2) Track 0 stuck on (drive A)
640 (PS/2) Index stuck HI (drive B)
641 (PS/2) Index stuck LO (drive B)
642 (PS/2) Track 0 stuck off (drive B)
643 (PS/2) Track 0 stuck on (drive B)
650 (PS/2) Drive speed error
651 (PS/2) Format failure
652 (PS/2) Verify failure
653 (PS/2) Read failure
654 (PS/2) Write failure
655 (PS/2) Controller error
656 (PS/2) Drive failure
657 (PS/2) Write protect stuck (protected)
658 (PS/2) Change line stuck (changed)
659 (PS/2) Write protect stuck (unprotected)
660 (PS/2) Change line stuck (unchanged)
662 (PS/2) Wrong diskette type installed or drive or cable failure
663 (PS/2) Wrong media type in drive
670 (PS/2) System board, drive or cable failure
675 (PS/2) System board, drive or cable failure
7xx Math Coprocessor or system board failure
701 Math Coprocessor Failure -- replace Coprocessor
701 (PS/2) Math Coprocessor Presence Initialization
702 (PS/2) 80387 math coprocessor exception errors test
703 (PS/2) 80387 math coprocessor rounding test
704 (PS/2) 80387 math coprocessor arithmetic test 1
705 (PS/2) 80387 math coprocessor arithmetic test 2
706 (PS/2) 80387 math coprocessor arithmetic test 3 (80387 only)
707 (PS/2) 80387 math coprocessor combination test
708 (PS/2) 80387 math coprocessor integer/store test
709 (PS/2) 80387 math coprocessor equivalent expressions
710 (PS/2) 80387 math coprocessor exceptions (interrupts)
711 (PS/2) 80387 math coprocessor save state (FSAVE)
712 (PS/2) 80387 math coprocessor protected mode test
713 (PS/2) 80387 math coprocessor special test (voltage/temp sensitive)
901 Printer adapter data register latch error.
902 Printer adapter control register latch error.
903 Printer adapter register address decode error.
904 Printer adapter address decode error.
910 Status line(s) WRAP connector error. (PN 8529228 ?)
911 Status line bit 7 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 failed.
917 Unexpected printer adapter interrupt.
92x Feature register error. (Special card.)
10xx Reserved for parallel printer adapter.
1001 Parallel printer adapter -- Adapter test failed.
1014 Parallel printer adapter -- Conflict between 2 adapters.
1054 Either wrong switch settings or a "201" memory error
1101 Asynchronous communications adapter test failed.

When testing the XT/286 - AT parallel/serial adapter with Advanced
Diagnostics version 2.04, you MUST have the new style wrap connector (or
'pig-tail'). Version 2.04 uses another scheme of wrapping the data and
control lines on the serial port. If you do not have the new wrap
connector, use version 2.03

1101 (PS/2) 16550 async chip error or POST error
 (PCC) RS-232 communication adaptor COM1 failure (Not within system unit)
 8250 function or modem failure
1102 (PS/2) Card selected feedback error
 (PCC) Internal modem failure
1103 (PS/2) Port 102H register test failure
1106 (PS/2) Serial option can not be put to sleep
1107 (PS/2) Cable error
1108 (PS/2) Async IRQ3 error
1109 (PS/2) Async IRQ4 error
1110 ASYNC Modem Status Register not clear
 (PS/2) 16550 async chip register failure
1111 ASYNC Ring Indicate failure
 (PS/2) Internal wrap test of 16550 modem control line failure
1112 ASYNC Trailing Edge Ring indicate failure
 (PS/2) External wrap test of 16550 modem control line failure
1113 ASYNC Receive and Delta Receive line signal detect failure
 (PS/2) 16550 transmit error
1114 ASYNC Receive line signal detect failure
 (PS/2) 16550 receive error
1115 ASYNC Delta Receive line signal detect failure
 (PS/2) 16550 receive error data not equal transmit data
1116 ASYNC Line Control Register (all bits cannot be set)
 (PS/2) 16550 interrupt function error
1117 ASYNC Line Control Register (all bits cannot be reset)

(PS/2) 16550 fails baud rate test
1118 ASYNC Transmit holding and/or shift register stuck on
(PS/2) 16550 interrupt driven receive external data wrap test failure
1119 ASYNC Data Ready stuck on
(PS/2) 16550 FIFO error
1120 ASYNC Interrupt Enable Register (all bits cannot be set)
1121 ASYNC Interrupt Enable Register (all bits cannot be reset)
1122 ASYNC Interrupt pending stuck on
1123 ASYNC Interrupt ID register stuck on
1124 ASYNC Modem Control Register (all bits cannot be set)
1125 ASYNC Modem Control Register (all bits cannot be reset)
1126 ASYNC Modem Status Register (all bits cannot be set)
1127 ASYNC Modem Status Register (all bits cannot be reset)
1128 ASYNC Interrupt ID Failure
1129 ASYNC Cannot force overrun error
1130 ASYNC No Modem Status Interrupt
1131 ASYNC Invalid Interrupt status pending
1132 ASYNC No data ready
1133 ASYNC No data available Interrupt
1134 ASYNC No Transmit Holding Interrupt
1135 ASYNC No Interrupts
1136 ASYNC No Receive Line Status Interrupt
1137 ASYNC No Receive data available
1138 ASYNC Transmit Holding Register not empty
1139 ASYNC No Modem Status Interrupt
1140 ASYNC Transmit Holding Register not empty
1141 ASYNC No Interrupts
1142 ASYNC NO IRQ4 Interrupt
1143 ASYNC No IRQ3 Interrupt
1144 ASYNC No Data Transferred
1145 ASYNC Max Baud rate failed
1146 ASYNC Min Baud rate failed
1148 ASYNC Timeout Error
1149 ASYNC Invalid Data Returned
1150 ASYNC Modem Status Register error
1151 ASYNC No DSR to Delta DSR
Errors will occur if a down level serial wrap plug (p/n 8529280) or
(p/n 1501873) is used with Advanced Diagnostics 2.04 or higher.
Use 25 pin wrap plug p/n 62x1083
1152 ASYNC No Data Set Ready
1153 ASYNC No Delta
1154 ASYNC Modem Status Register not clear

1155 ASYNC No CTS and Delta CTS
1156 ASYNC No Clear to Send
1157 ASYNC No delta CTS
1201 Alternate Asynchronous communications adapter test failed.
 (PS/2) Can not detect presence of dual async adapter
 (PCC) RS-232 communication adaptor COM2 failure (Not within system unit)
1202 (PS/2) Dual async adapter card selected feedback error
1203 (PS/2) Dual async adapter port 102H register test failure
1206 (PS/2) Dual async adapter serial option can not be put to sleep
1207 (PS/2) Dual async adapter cable error
1208 (PS/2) Dual async adapter async IRQ3 error
1209 (PS/2) Dual async adapter async IRQ4 error
1210 ALT ASYNC Modem Status Register not clear
 (PS/2) 16550 async chip register failure
1211 ALT ASYNC Ring Indicate failure
 (PS/2) Internal wrap test of 16550 modem control line failure
1212 ALT ASYNC Trailing Edge Ring indicate failure
 (PS/2) External wrap test of 16550 modem control line failure
1213 ALT ASYNC Receive and Delta Receive line signal detect failure
 (PS/2) 16550 transmit error
1214 ALT ASYNC Receive line signal detect failure
 (PS/2) 16550 receive error
1215 ALT ASYNC Delta Receive line signal detect failure
 (PS/2) 16550 receive error data not equal transmit data
1216 ALT ASYNC Line Control Register (all bits cannot be set)
 (PS/2) 16550 interrupt function error
1217 ALT ASYNC Line Control Register (all bits cannot be reset)
 (PS/2) 16550 fails baud rate test
1218 ALT ASYNC Transmit holding and/or shift register stuck on
 (PS/2) 16550 interrupt driven receive external data wrap test failure
1219 ALT ASYNC Data Ready stuck on
 (PS/2) 16550 FIFO
1220 ALT ASYNC Interrupt Enable Register (all bits cannot be set)
1221 ALT ASYNC Interrupt Enable Register (all bits cannot be reset)
1222 ALT ASYNC Interrupt pending stuck on
1223 ALT ASYNC Interrupt ID register stuck on
1224 ALT ASYNC Modem Control Register (all bits cannot be set)
1225 ALT ASYNC Modem Control Register (all bits cannot be reset)
 (PS/2) 16550 async chip register failure
1226 ALT ASYNC Modem Status Register (all bits cannot be set)
 (PS/2) Internal wrap test of 16550 modem control line failure
1227 ALT ASYNC Modem Status Register (all bits cannot be reset)

(PS/2) External wrap test of 16550 modem control line failure
1228 ALT ASYNC Interrupt ID Failure
(PS/2) 16550 transmit error
1229 ALT ASYNC Cannot force overrun error
(PS/2) 16550 receive error
1230 ALT ASYNC No Modem Status Interrupt
(PS/2) 16550 receive error data not equal transmit data
1231 ALT ASYNC Invalid Interrupt status pending
(PS/2) 16550 interrupt function error
1232 ALT ASYNC No data ready
(PS/2) 16550 fails baud rate test
1233 ALT ASYNC No data available Interrupt
(PS/2) 16550 interrupt driven receive external data wrap test failure
1234 ALT ASYNC No Transmit Holding Interrupt
(PS/2) 16550 FIFO
1235 ALT ASYNC No Interrupts
1236 ALT ASYNC No Receive Line Status Interrupt
1237 ALT ASYNC No Receive data available
1238 ALT ASYNC Transmit Holding Register not empty
1239 ALT ASYNC No Modem Status Interrupt
1240 ALT ASYNC Transmit Holding Register not empty
1241 ALT ASYNC No Interrupts
1242 ALT ASYNC NO IRQ4 Interrupt
1243 ALT ASYNC No IRQ3 Interrupt
1244 ALT ASYNC No Data Transferred
1245 ALT ASYNC Max Baud rate failed
1246 ALT ASYNC Min Baud rate failed
1248 ALT ASYNC Timeout Error
1249 ALT ASYNC Invalid Data Returned
1250 ALT ASYNC Modem Status Register error
1251 ALT ASYNC No DSR to Delta DSR
1252 ALT ASYNC No Data Set Ready
1253 ALT ASYNC No Delta
1254 ALT ASYNC Modem Status Register not clear
1255 ALT ASYNC No CTS and Delta CTS
1256 ALT ASYNC No Clear to Send
1257 ALT ASYNC No delta CTS
1290 (PS/2) Cached Processor Option - Disk cache error
1301 Game control adapter test failed
1302 Joystick test failed
1380 Error on a Games Adapter -- remove adapter and re-run autoconfig
1401 Printer test failed.

PS/2 - Printer failure
1402 Printer NOT READY error.
PS/2 - Printer not ready error
1403 Printer NO PAPER error.
PS/2 - Interrupt failure or out of paper
1404 (PS/2) System board time out
1405 (PS/2) Parallel adapter failure
1406 (PS/2) Presence test failed
15xx SDLC communications adapter errors.
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 timeout.
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 not on.
1528 Receive clock not on.
1529 Transmit clock not 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.
1536 Clear to send stuck on.
1537 Level 3 interrupt failure.
1538 Receive interrupt results error.
1539 Wrap data miscompare.
1540 DMA channel 1 error.
1541 DMA channel 1 error.
1542 Error in 8273 error checking or status reporting.
1547 Stray interrupt level 4

1548 Stray interrupt level 3
1549 Interrupt presentation sequence timeout.
1604 DSEA (Display Station Emulator Adapter) adapter error or twinax problem
1608 DSEA Adapter error, or twinaxial problem
1624 DSEA Adapter error.
1634 DSEA Adapter error.
1644 DSEA Adapter error.
1652 DSEA Adapter error.
1654 DSEA Adapter error.
1658 DSEA Adapter error.
1664 DSEA Adapter error.
1662 DSEA Interrupt Level switches set incorrectly or DSEA Adapter error.
1668 DSEA Interrupt Level switches set incorrectly or DSEA Adapter error.
1674 DSEA Station address error or DSEA Adapter error.
1684 DSEA Feature not installed or Device address switches set incorrectly.
1688 DSEA Feature not installed or Device address switches set incorrectly.
17xx Fixed Disk errors.
1701 PC Fixed disk drive not ready or PCAT Hardfile adapter test failed
1702 Fixed disk adapter error - Time out
Either the controller card or the drive will have to be replaced. Try a new
card first since that doesn't usually result in data loss on the original
drive.
1703 Fixed disk drive error - Seek failure
1704 Fixed disk adapter or drive error - Hardfile controller error
1705 Record not found
1706 Write failure -- Write Fault Error
1707 Bad track 0
1708 Bad reset -- Head Select Error
1709 Disk 0 error -- AT fixed disk - ECC error
1710 Drive not ready -- Read Buffer Overrun
1711 Bad Address Mark -- AT fixed disk
1712 Internal controller diagnostics fail
Make sure Adv. Diags. were loaded from cold boot (5170 PC/AT only)
20 meg or larger disk connected to J3 -- "standard" IBM controller
supplied with Expansion Unit does not support drives larger than 10meg
1713 DMA boundary error -- Data Compare Error
1714 POST hardfile test fails -- Drive Not Ready
1715 Track 0 indicator failure
20 meg or larger disk connected to J2 -- see 1712 above
1716 CE track bad
1717 Surface read errors
1718 Bad hard file type

1726 Data compare error
1730 Replace Adapter
1731 Replace Adapter
1732 Replace Adapter
1733 BIOS undefined error return
1735 Bad command
1736 Data corrected error
1737 Bad track
1738 Bad sector
1739 Bad initialization
1740 Bad sense
1750 (PS/2) Drive "x" verify failure
1751 (PS/2) Drive "x" read failure
1752 (PS/2) Drive "x" write failure
1753 (PS/2) Drive "x" random read test error
1754 (PS/2) Drive "x" seek test error
1755 (PS/2) Controller failure
1756 (PS/2) Controller ECC test failure
1757 (PS/2) Controller head select failure
1780 Time out for hard drive 0 at IPL -- No IPL Capability - Try formatting
1781 Time out for hard drive 1 at IPL -- Try formatting
1780/1 means FDISK and DOS format are required.
1782 Fixed disk controller error
1790 Fixed disk 0 error -- Check hard disk cable connection -- Press F1
1791 Fixed disk 1 error -- Check hard disk cable connection -- Press F1
1790/1 usually indicates low level format is required
18xx I/O Expansion unit errors.
1801 I/O Expansion unit POST error.
1803 (PS/2) System board failure on 8556 or 8557 machines
181x Expansion unit driver card errors -- SU end
1810 Enable/Disable failure.
1811 Extender card wrap test failed (disabled).
1812 High order address lines failure (disabled).
1813 Wait state failure (disabled).
-1813 and 1815- There is an EC to the expansion card which
resides in the system unit. The modification is in the upper
left hand corner (component side); one trace is cut on the
printed side and one wire add component side.
1814 Enable/Disable could not be set on.
1815 Wait state failure (enabled) -- See 1813 note above
1816 Extender card wrap test failed (enabled).
1817 High order address lines failure (enabled).

1818 Disable not functioning
 1819 Wait request switch not set correctly
 This error condition is noted whenever either (1) there is RAM in the
 SU 64K or more above the EU Switch setting or (2) if EU switches are
 set for more than 640K. DMA errors can result if there is any SU RAM
 above the switch settings.
 Put all memory and memory expansion cards in the system unit with the
 display adapters and the async adapter in the expansion box.
 SU switch settings of OFF ON OFF ON (640K) are fine for all normal
 system configurations including configurations of less than 640K
 182x Expansion unit receiver card errors -- EU end
 1820 Receiver card wrap test failure ...or could be a power supply failure
 1821 Receiver high order address lines failure
 186x (PS/2) Set Configuration error -- replace battery
 20xx Bisync communications adapter errors
 (PS/2) - Model 90/95 video memory failure
 2003 Associated with Music Feature card -- may be software error
 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
 2016 8253 timer 2 did not reach terminal count or 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 8251 Clear to send stuck on
 2021 8251 hardware reset failed
 2022 8251 software reset failed
 2023 8251 software "error reset" failed
 2024 8251 transmit ready did not come on
 2025 8251 receive ready did not come on
 2026 8251 could not force "overrun" 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
2049 Transmit data did not equal receive data
2050 8251 detected overrun error
2051 Lost data set ready during data wrap
2052 Receive timeout during data wrap
21xx Alternate bisync communications adapter errors
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
2116 8253 Timer 2 did not reach terminal count or
2117 8251 Data set ready failed to come on
2117 8251 Clear to send not sensed
2118 8251 Data set ready stuck on
2119 8251 Clear to send stuck on
2120 8251 Hardware reset failed
2121 8251 Software reset failed
2122 8251 Software "error reset" failed
2123 8251 Transmit ready did not come on
2124 8251 Receive ready did not come on
2125 8251 Could not force "overrun" error status
2126 Interrupt failure-no timer interrupt
2128 Interrupt failure-transmit, replace card or
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
 2149 Transmit data did not equal receive data
 2150 8251 detected overrun error
 2151 Lost data set ready during data wrap
 2152 Receive timeout during data wrap
 22xx Cluster Adapter -- Problem is in one of
 Cluster Adapter
 System Board
 Power Supply
 2201 Cluster Adapter Failure
 23xx Plasma Monitor Adapter
 24xx EGA or VGA or L40SX LCD display
 2401 Enhanced Graphics Adapter Failure
 2401 (PS/2) Planar video error -- it can be the display or the video.
 First check for a solid connection -- wiggle the plug at the system end
 and check for one or more bent pins
 Next swap the monitor
 If a 2401 error persists after swapping the monitor, then the system board
 should be replaced next. However if your monitor serial number starts with
 "72" , is below 72-0374000 and you cannot find the number "61" stamped on
 the bottom of the display (you may need to remove the display stand), then
 a replacement monitor will probably fix this error.
 If it's definitely on the planar (ie another monitor fails) check the Immos
 palette DAC (ceramic DIP module with gold colored middle) for shorts between
 the pins.

 2402 (PS/2) Diagnostic video error
 2408 (PS/2) VGA Ground Circuit Fault -- cord may be disconnected at system end
 2409 (PS/2) VGA Ground Circuit Fault -- may be related to 8602 error
 FIRST, check that you have DASDDRV in config.sys. Then replace display; if
 failure repeats during video diagnostics, replace the system board.

2410 (PS/2) Replace System Board

2601-2655 XT/370-M CARD P-Processor

2657-2668 XT/370-M CARD M-Memory

2672 XT/370-M CARD EM-Emulator

2673-2674 XT/370-P CARD

2677-2680 XT/370-P CARD

2681 XT/370-M CARD

2682-2694 XT/370-P CARD

2697 XT/370-P CARD

2698 DIAGNOSTIC DISKETTE ERROR

2701-2703 XT/370-EM CARD

2801 3278/79 Emulation DFCA Card -- Unplug coax before running diagnostics

2801 (PS/2) 3270 Adapter keystroke accepted status bit failure

2802 (PS/2) Reset decoded status bit failure

2803 (PS/2) Cursor low reg incorrect on reset

2804 (PS/2) Cursor high reg incorrect on reset

2805 (PS/2) RAM buffer ripple pattern incorrect on reset

2806 (PS/2) No por status on poll after reset

2807 (PS/2) Status not clear on poll ack

2808 (PS/2) Terminal id reg write/read test failed

2809 (PS/2) Not busy status bit not working

2810 (PS/2) Address counter low incorrect

2811 (PS/2) Cursor low reg incorrect

2812 (PS/2) Address counter high incorrect

2813 (PS/2) Cursor high reg incorrect

2814 (PS/2) Buffer being modified bit off during write command

2815 (PS/2) Base buffer modified complete not set by write command

2816 (PS/2) Write command/read command results not comparing

2817 (PS/2) Buffer being modified off during clear command

2818 (PS/2) Base buffer modified complete not set by clear command

2819 (PS/2) No op complete status after clear command

2820 (PS/2) Wrong area cleared by clear command

2821 (PS/2) Correct area not cleared by clear command

2822 (PS/2) Correct area not cleared by clear command

2823 (PS/2) Stopping address not correct after clear command

2824 (PS/2) Stopping address not correct after clear command

2825 (PS/2) Correct area not cleared by clear command

2826 (PS/2) Wrong area cleared by clear command

2827 (PS/2) Stopping address not correct after clear command

2828 (PS/2) Stopping address not correct after clear command

2829 (PS/2) Correct area not cleared by clear command

2830 (PS/2) Wrong area cleared by clear command
2831 (PS/2) Buffer being modified off during insert command
2832 (PS/2) Base buffer modified complete not set by insert command
2833 (PS/2) No op complete status after insert command
2834 (PS/2) Wrong data disturbed by insert command
2835 (PS/2) Byte inserted at wrong address by insert command
2836 (PS/2) Data shifted incorrectly by insert command
2837 (PS/2) Shifting not stopped by null during insert command
2838 (PS/2) Byte at wrong address after insert command
2839 (PS/2) Data shifted incorrectly by insert command
2840 (PS/2) Shifting not stopped by attribute on insert command
2841 (PS/2) Address counter not correct after search forward command
2842 (PS/2) Cursor reg incorrect after search forward command
2843 (PS/2) No op complete status after search forward command
2844 (PS/2) Address counter not correct after search forward command
2845 (PS/2) Cursor reg incorrect after search forward command
2846 (PS/2) Address counter not correct after search backward command
2847 (PS/2) Cursor reg incorrect after search backward command
2848 (PS/2) No op complete after search backward command
2849 (PS/2) Address counter incorrect after search backward command
2850 (PS/2) Cursor reg incorrect after search backward command
2851 (PS/2) Load control reg command not clearing visual/sound reg
2852 (PS/2) Load control reg command not setting visual/sound reg
2853 (PS/2) Inhibit feature step not setting in visual/sound reg
2854 3278/79 (DFCA 3270) Diagnostic Incompatibility
 (PS/2) Inhibit display not setting in visual/sound reg
2855 (PS/2) Inhibit cursor not setting in visual/sound reg
2856 (PS/2) Reverse cursor not setting in visual/sound reg
2857 (PS/2) Blink cursor not setting in visual/sound reg
2858 (PS/2) Write/read of pc/il control reg incorrect
2859 3278/79 (DFCA 3270) Possible bad BSC Card
 (PS/2) Adapter does not cause interrupt when enabled
2860 (PS/2) Write/read testing of RAM buffer failed
2861 (PS/2) Polling does not clear status reg
2862 (PS/2) Interrupt/status reg not clearing on reset under mask
2863 (PS/2) Spare command causing unexpected action
2864 (PS/2) Not used
2865 (PS/2) Page register failure
2866 (PS/2) Read multiple command failure
2867 (PS/2)
2868 (PS/2) 3287 mode failure
2869 (PS/2) TCA mode failure

29xx Color Printer

- Parallel Printer Adapter
- Monochrome Display and Printer Adapter
- Printer Attachment Cable
- System Board
- Power Supply

2901 Color Graphics printer tests failed

30xx Primary PC Network Adapter Error

3001 LAN Network Adapter CPU Failure -- Replace Primary Lan Adapter

3002 LAN Network ROM Failure -- Replace Primary LAN Adapter

3003 LAN Network I. D. Failure -- Replace Primary LAN Adapter

3004 LAN Network RAM Failure -- Replace Primary LAN Adapter

3005 LAN Network Host Interrupt Failure -- Replace Primary LAN Adapter

3006 LAN Network + or NEG 12V DC Failure -- Replace Primary LAN Adapter

3007 LAN Network Digital Wrap Failure -- Replace Primary LAN Adapter

3008 LAN Network Host Interrupt Failure -- Replace Primary LAN Adapter

3009 LAN Network Sync Failure -- Replace Primary LAN Adapter

3010 LAN Network Time Out Failure -- Replace Primary LAN Adapt

3011 LAN Network Time Out Failure -- Replace Primary LAN Adapter

3012 LAN Network Adapter Failure -- Card not present -- Replace PriLAN Adpt

3013 LAN Network Digital Failure -- Replace Primary LAN Adapter

3014 LAN Network Digital Failure -- Replace Primary LAN Network Adapter

3015 LAN Network Analog Failure (RF -- Adapter not hooked to translator)

-- (Coax unplugged? -- no signal present)

You have either a PC-Net or Token Ring (or some other networking) card installed which is PROBABLY NOT CONNECTED or the network is malfunctioning.

Either remove the card or correct the network problem.

3020 LAN Network ROM BIOS Failure

3041 LAN Network Continuous RF Signal Detected

3042 LAN Network Continious RF Signal Sent -- Replace Primary LAN Adapter

31xx Secondary Network Adapter Error

3101 ALT LAN NETWORK Adapter CPU Failure -- Replace Alt. Lan Adapter

3102 ALT LAN NETWORK ROM Failure -- Replace Alt. LAN Adapter

3103 ALT LAN NETWORK I. D. Failure -- Replace Alt. LAN Adapter

3104 ALT LAN NETWORK RAM Failure -- Replace Alt. LAN Adapter

3105 ALT LAN NETWORK Host Interrupt Failure -- Replace Alt. LAN Adapter

3106 ALT LAN NETWORK + or NEG 12V DC Failure -- Replace Alt. LAN Adapter

3107 ALT LAN NETWORK Digital Wrap Failure -- Replace Alt. LAN Adapter

3108 ALT LAN NETWORK Host Interrupt Failure -- Replace Alt. LAN Adapter

3109 ALT LAN NETWORK Sync Failure -- Replace Alt. LAN Adapter

3110 ALT LAN NETWORK Time Out Failure -- Replace Alt. LAN Adapter
3111 ALT LAN NETWORK Time Out Failure -- Replace Alt. LAN Adapter
3112 ALT LAN NETWORK Adapter Failure -- Replace Alt. LAN Adapter
3113 ALT LAN NETWORK Digital Failure -- Replace Alt. LAN Adapter
3114 ALT LAN NETWORK Digital Failure -- Replace Alt. LAN Network Adapter
3115 ALT LAN NETWORK Analog Failure (RF) (adapter not hooked to translator)
3120 ALT LAN NETWORK ROM BIOS Failure
3141 ALT LAN NETWORK Continuous RF Signal Detected
3142 ALT LAN NETWORK Continuous RF Signal Sent -- Replace Alt. LAN Adapter
3201 - 3250 3270 Display Adapter or Top Card Connector
3261 - 3279 Programmed Symbols Adapter or Top Card Connector
3280 - 3289 APA Adapter or Top Card Connector
35xx Enhanced display station emulation adapter
3504 Adapter connected on the twinaxial cable during offline test
3508 Workstation address in use by another workstation
Diagnostic diskette from another IBM PC was used
3509 Diagnostic program failing (Recreate Adapter Integrated Diagnostic
diskette on a blank diskette).
3540 Work station address invalid, not configured at the controller.
Twinaxial cable not connected, or is failing.
Diagnostic diskette from another IBM PC was used.
3588 Enhanced Display Station Emulation Adapter
Feature not installed
Device I/O address switches set incorrectly
3599 Diagnostic program failing (Recreate Adapter Integrated Diagnostic
diskette on a blank diskette).
3601 GPIB Base Address incorrect
3602 GPIB Write to SPMR failed
3603 GPIB Write to ADR failed or addressing problems
3610 GPIB Adapter cannot be programmed to listen
3611 GPIB Adapter cannot be programmed to talk
3612 GPIB Adapter cannot take control with IFC
3613 GPIB Adapter cannot go to standby
3614 GPIB Adapter cannot take control asynchronously
3615 GPIB Adapter cannot take control synchronously
3616 GPIB Adapter cannot pass control
3617 GPIB Adapter cannot be addressed to listen
3618 GPIB Adapter cannot be unaddressed to listen
3619 GPIB Adapter cannot be addressed to talk
3620 GPIB Adapter cannot be unaddressed to talk
3621 GPIB Adapter unaddressable to listen with extended addressing
3622 GPIB Adapter unaddressable to listen with extended addressing

3623 GPIB Adapter unaddressable to listen with extended addressing
3624 GPIB Adapter unaddressable to listen with extended addressing
3625 GPIB Adapter cannot write to self
3626 GPIB Adapter cannot generate handshake error
3627 GPIB Adapter cannot detect DCL message
3628 GPIB Adapter cannot detect SDC message
3629 GPIB Adapter cannot detect END with EOI
3630 GPIB Adapter cannot detect EOI with EOI
3631 GPIB Adapter cannot detect END with 8 bit EOS
3632 GPIB Adapter cannot detect END with 7 bit EOS
3633 GPIB Adapter cannot detect GET
3634 GPIB Mode 3 addressing not functioning
3635 GPIB Adapter cannot recognize undefined command
3636 GPIB Adapter cannot detect REM, REMC, LOK or LOKC
3637 GPIB Adapter cannot clear REM or LOK
3638 GPIB Adapter cannot detect SRQ
3639 GPIB Adapter cannot conduct serial poll
3640 GPIB Adapter cannot conduct parallel poll
3650 GPIB Adapter cannot DMA to 7210
3651 GPIB Data error on DMA to 7210
3652 GPIB Adapter cannot DMA from 7210
3653 GPIB Data error on DMA from 7210
3658 GPIB Unenvoked interrupt received
3659 GPIB Adapter cannot interrupt of ADSC
3660 GPIB Adapter cannot interrupt on ADSC
3661 GPIB Adapter cannot interrupt on CO
3662 GPIB Adapter cannot interrupt on DO
3663 GPIB Adapter cannot interrupt on DI
3664 GPIB Adapter cannot interrupt on ERR
3665 GPIB Adapter cannot interrupt on DEC
3666 GPIB Adapter cannot interrupt on END
3667 GPIB Adapter cannot interrupt on DET
3668 GPIB Adapter cannot interrupt on APT
3669 GPIB Adapter cannot interrupt on CPT
3670 GPIB Adapter cannot interrupt on REMC
3671 GPIB Adapter cannot interrupt on LOKC
3672 GPIB Adapter cannot interrupt on SRQI
3673 GPIB Adapter cannot interrupt terminal count on DMA to 7210
3674 GPIB Adapter cannot interrupt terminal count on DMA from 7210
3675 GPIB Spurious DMA terminal count interrupt
3697 GPIB Illegal DMA configuration setting detected
3698 GPIB Illegal interrupt level configuration setting detected

37xx (PS/2) System board, hard disk or cable failure (refer to MAPs)

3801 Data Acquisition Adapter test failed
3810 Data Acquisition Timer read test failed
3811 Data Acquisition Timer interrupt test failed
3812 Data Acquisition Delay, BI14 test failed
3813 Data Acquisition Rate, BI13 test failed
3814 Data Acquisition BO14, ISIRQ test failed
3815 Data Acquisition BO0, Countin test failed
3816 Data Acquisition Countout, BISTB test failed
3817 Data Acquisition BO0, BOCTS test failed
3818 Data Acquisition BO1, BIO test failed
3819 Data Acquisition BO2, BI1 test failed
3820 Data Acquisition BO3, BI2 test failed
3821 Data Acquisition BO4, BI3 test failed
3822 Data Acquisition BO5, BI4 test failed
3823 Data Acquisition BO6, BI5 test failed
3824 Data Acquisition BO7, BI6 test failed
3825 Data Acquisition BO8, BI7 test failed
3826 Data Acquisition BO9, BI8 test failed
3827 Data Acquisition BO10, BI9 test failed
3828 Data Acquisition BO11, BI10 test failed
3829 Data Acquisition BO12, BI11 test failed
3830 Data Acquisition BO13, BI12 test failed
3831 Data Acquisition BO15, AICE test failed
3832 Data Acquisition BOSTB, BOGATE test failed
3833 Data Acquisition BICTS, BIHOLD test failed
3834 Data Acquisition AICO, BI15 test failed
3835 Data Acquisition Counter interrupt test failed
3836 Data Acquisition Counter read test failed
3837 Data Acquisition A00 Ranges test failed
3838 Data Acquisition A01 Ranges test failed
3839 Data Acquisition AI0 Values test failed
3840 Data Acquisition AI1 Values test failed
3841 Data Acquisition AI2 Values test failed
3842 Data Acquisition AI3 Values test failed
3843 Data Acquisition Analog input interrupt test failed
3844 Data Acquisition AI23 Address or Value test failed
3901 PGA Adapter Tests failed
3902 PGA Rom1 self test failure
3903 PGA Rom2 self test failure
3904 PGA Ram self test failure
3905 PGA Coldstart failure cycle power

3906 PGA Data error in communications ram
3907 PGA Address error in communications ram
3918 PGA Bad data detected while read/write to 6845 'like' registers
3909 PGA Bad data detected in lower EOH bytes read/writing
3909 6845 'like' registers
3910 PGA PGC display bank output latches
3911 PGA Basic clock failure
3912 PGA Command control error
3913 PGA VSYNC scanner
3914 PGA HSYNC scanner
3915 PGA Intech failure
3916 PGA LUT address error
3917 PGA LUT red ram chip error
3918 PGA LUT green ram chip error
3919 PGA LUT blue ram chip error
3920 PGA LUT data latch error
3921 PGA Horizontal display failure
3922 PGA Vertical display failure
3923 PGA Light pen
3924 PGA Unexpected error
3925 PGA Emulator addressing error
3926 PGA Emulator data latch
3927 PGA Emulator ram base for error codes 27 - 30
3931 PGA Emulator H/V display problem
3932 PGA Emulator cursor position
3933 PGA Emulator attribute display problem
3934 PGA Emulator cursor display
3935 PGA Fundamental emulation RAM problem
3936 PGA Emulation character set problem
3937 PGA Emulation graphics display
3938 PGA Emulator character display problem
3939 PGA Emulator bank select error
3940 PGA Display ram U2
3941 PGA Display ram U4
3942 PGA Display ram U6
3943 PGA Display ram U8
3944 PGA Display ram U10
3945 PGA Display ram U1
3946 PGA Display ram U3
3947 PGA Display ram U5
3948 PGA Display ram U7
3949 PGA Display ram U9

3950 PGA Display ram U12
3951 PGA Display ram U14
3952 PGA Display ram U16
3953 PGA Display ram U18
3954 PGA Display ram U20
3955 PGA Display ram U11
3956 PGA Display ram U13
3957 PGA Display ram U15
3958 PGA Display ram U17
3959 PGA Display ram U19
3960 PGA Display ram U22
3961 PGA Display ram U24
3962 PGA Display ram U26
3963 PGA Display ram U28
3964 PGA Display ram U30
3965 PGA Display ram U21
3966 PGA Display ram U23
3967 PGA Display ram U25
3968 PGA Display ram U27
3969 PGA Display ram U29
3970 PGA Display ram U32
3971 PGA Display ram U34
3972 PGA Display ram U36
3973 PGA Display ram U38
3974 PGA Display ram U40
3975 PGA Display ram U31
3976 PGA Display ram U33
3977 PGA Display ram U35
3978 PGA Display ram U37
3979 PGA Display ram U39
3980 PGA PGC RAM timing failure
3981 PGA PGC R/W latch
3982 PGA S/R bus output latches
3983 PGA Addressing error (vertical column of memory..U2 at top)
3984 PGA Addressing error (vertical column of memory..U4 at top)
3985 PGA Addressing error (vertical column of memory..U6 at top)
3986 PGA Addressing error (vertical column of memory..U8 at top)
3987 PGA Addressing error (vertical column of memory..U10 at top)
3988 PGA Base for error codes 88 91 (hbank data latch errors)
3992 PGA RAS/CAS PGC failure
3993 PGA Multiple write modes/nibble mask errors
3994 PGA Row nibble failure (display ram)

3995 PGA PGC addressing failure
44xx Display Attachment Unit and Display
45xx IEEE Interface Adapter Card (IEEE-488)
46xx Artic Multiport Interface Adapter
4611 (PS/2) Multiport Interface Card
4612 (PS/2) Multiport Memory Module
4613 (PS/2) Multiport Memory Module
4630 (PS/2) Multiport Interface Card
4640 (PS/2) Multiport Memory Module
4641 (PS/2) Multiport Memory Module
4650 (PS/2) Multiport Interface Cable
5001 (PCC) LCD buffer failure
5002 (PCC) LCD font buffer failure
5003 (PCC) LCD controller failure
5001-5019 (Thinkpad, L40, N51) System board or LCD assembly error
5022 (Thinkpad, L40, N51) System board or LCD assembly error
5023 (Thinkpad, L40, N51) System board or LCD assembly error
5030-5033 (Thinkpad, L40, N51) System board or external display error
5037 (Thinkpad, L40, N51) System board or external display error
5038 (Thinkpad, L40, N51) External display error
5041 (Thinkpad, N51) System board, external display, or I/O panel error
5051 (Thinkpad, N51) System board or LCD components error
5062 (Thinkpad, N51) System board or LCD components error
5101 (PCC) Portable printer interface failure
56xx Financial Communications System
 FCS Input Option, FCS Output Option or FCS Security Option
5601 PS/2 keyboard failed (PORT 2) -- check connection and re-run test
5602 PS/2 Keyboard failed Self-Test -- re-run with known good keyboard
 If test fails on re-run, have system unit serviced
5603 PS/2 Keyboard error -- Invalid configuration of keyboards detected
5604 (PS/2) 50-Key keyboard is not attached.
5605 (PS/2) 50-Key keyboard self-test failed.
5606 (PS/2) 50 Key keyboard error -- keyboard not attached
5607 (PS/2) Invalid invalid key code -- make another selection
5608 (PS/2) 50-Key keyboard error.
5609 (PS/2) Invalid system for the keyboard program.
5610 No PIN Keypad attached
5611 (PS/2) PIN Keypad failed -- Key code different than expected
5612 Encrypting PIN Keypad detected data of an incorrect length
5614 (PS/2) No PIN Keypad attached to System Unit.
5615 (PS/2) PIN Keypad driver has an input parameter error.
Key used to cancel PIN entries has an incorrect code--Pin Pad Self Test Fail

5616 (PS/2) PIN Keypad not attached to the Pointing Device connector.
 5617 (PS/2) Pin Keypad failed self-test.
 5618 (PS/2) Pin Keypad has a communications error.
 5619 (PS/2) System invalid for PIN keypad driver.
 5621 (PS/2) Magnetic Stripe Unit failed.
 5622 Magnetic Stripe reader/encoder error -- Wrong Diagnostic Diskette Level
 5623 (PS/2) Magnetic Stripe Unit not connected to System Unit.
 5624 (PS/2) Magnetic Stripe Unit driver input error
 5625 No Magnetic Stripe device connected
 5626 (PS/2) Magnetic Stripe Unit not attached to Pointing Device connector.
 Data read and data encoded by mag stripe device do not match
 5627 (PS/2) Magnetic Stripe Unit self-test failed
 5629 (PS/2) System invalid for the Magnetic Stripe Unit driver.
 5630 (PS/2) STATUS = F1 system attempted unsuccessful IPL from
 diskette.
 5631 (PS/2) STATUS REMOTE START - normal start-up message.
 5632 Diagnostics failed to load from diskette drive
 5633 (PS/2) STATUS REMOTE IPL - normal start-up message.
 5634 Remote ipl error between 4700 PC and controller
 5641 Financial Input adapter failed
 5651 Financial Output adapter failed
 5652 Output failure of printer or adapter
 5653 The customization data for thr printer missing
 5654 Loop cable for the printer not connected
 5655 Printer redirect -- error in the order of CONFIG.SYS file
 5661 Financial Security adapter failed
 5662 Data Encryption tried during normal operation without the Financial
 Security adapter installed
 5663 No "Master Key" is present in the Financial Security adapter
 5690 4700PC banking features not those expected.
 5691 (PS/2) Device driver error.
 62xs - IBM Store Loop Adapter. 's' is the slot number
 6201 (PS/2) Replace (Store Loop) Adapter
 621s - Multiple errors Replace (Store Loop) Adapter
 622s - 8051 POR errors 8051 POR Error Check Status
 623s - Latch test errors Latch Test Errors Check Status
 624s - Shared buffer errors. Shared Buffer Error Check Status
 625s - CMOS test errors. CMOS TEST Error Check Status
 626s - Dump latch errors. Dump Latch Error Check Status
 6270 (PS/2) Cable or Adapter Error
 6280 (PS/2) Dump switch not Operated in time
 6290 (PS/2) NO Store loop adapter Present (Check Install List).

63xx 2nd Store Loop Adapter (see 62xs codes)

6421 Ethernet adapter is installed but no cable or terminator is attached
Put a terminator onto the Ethernet card's BNC connector

6907 System/36 PC expansion cable left attached to PC while running 36 Driver
Card diagnostics

71xx Voice Communications Adapter

7101 - I/O Control Register

7102 - Instruction or External Data Memory

7103 - PC to VCA Interrupt

7104 - Internal Data Memory

7105 - DMA

7106 - Internal Registers

7107 - Interactive Shared Memory

7108 - VCA to PC interrupt

7109 - DC Wrap

7111 - External Analog Wrap & Tone output

7112 - Mic to Spkr Wrap

7114 - Telephone Attach Test

74xx 8514/A Display Adapter

7401 - VGA logic

7402 - VGA test pattern

7404 - VGA test pattern

7406 - VGA test pattern

7408 - VGA test pattern

7412 - VGA test pattern

7420 - Advanced function test pattern (serialiser test)

7421 - ROM checksum Replace the 8514/A Adapter

7422 - Register test Replace the 8514/A Adapter

7423 - Update controls Replace the 8514/A Adapter

7424 - Functions test Replace the 8514/A Adapter

7425 - Palette RAM test Replace the 8514/A Adapter

7426 - Comparators Replace the 8514/A Adapter

7427 - VRAM - palette addressing Replace the 8514/A Adapter

7428 - Interrupt test

7435 - 4/8 plane jumper on auxiliary storage card incorrect

7440 VRAM data error -- Module 31 defective

7441 VRAM data error -- Module 30 defective

7442 VRAM data error -- Module 29 defective

7443 VRAM data error -- Module 28 defective

7444 VRAM data error -- Module 22 defective

7445 VRAM data error -- Module 21 defective

7446 VRAM data error -- Module 18 defective

7447 VRAM data error -- Module 17 defective
7448 VRAM data error -- Module 32 defective
7449 VRAM data error -- Module 14 defective
7450 VRAM data error -- Module 13 defective
7451 VRAM data error -- Module 12 defective
7452 VRAM data error -- Module 06 defective
7453 VRAM data error -- Module 05 defective
7454 VRAM data error -- Module 02 defective
7455 VRAM data error -- Module 01 defective
7458 VRAM error, not data check -- Replace the 8514/A Adapter
7460 VRAM data error -- Module 16 defective
7461 VRAM data error -- Module 27 defective
7462 VRAM data error -- Module 26 defective
7463 VRAM data error -- Module 26 defective
7464 VRAM data error -- Module 24 defective
7465 VRAM data error -- Module 23 defective
7466 VRAM data error -- Module 20 defective
7467 VRAM data error -- Module 19 defective
7468 VRAM data error -- Module 15 defective
7469 VRAM data error -- Module 11 defective
7470 VRAM data error -- Module 10 defective
7471 VRAM data error -- Module 09 defective
7472 VRAM data error -- Module 08 defective
7473 VRAM data error -- Module 07 defective
7474 VRAM data error -- Module 04 defective
7475 VRAM data error -- Module 03 defective
7478 VRAM error, not data check -- Replace the 8514/A Adapter
7509 Display error
7510 XGA adapter or adapter memory error
76xx - 4216 Pageprinter
7601 - Printer adapter card error
7602 - Printer adapter card error
7603 - Printer error
7604 - Printer cable error
7801 (PS/2) Replace High Speed Adapter
7901 3117 Adapter Error Replace Adapter
7902 3117 Scanner lamp or device card problem
7903 3117 Scanner cable error check or replace cable
8201 Info window NORMAL POWER ON
8202 Info window TIMER RESET (TIMEOUT) System controller board
8203 Info window 8031 CHIP System controller board
8204 Info window RAM System controller board

8205 Info window ROM CRC ROM or System controller board
 8206 Info window RAM CRC System controller board
 8207 Info window NVRAM CRC Was display power switch off during an update?
 Data was restored -- may have system controller board problem
 8208 Info window NVRAM BATTERY NVRAM battery or System controller board
 8209 Info window NVRAM FAILURE System controller board
 8210 Info window NVRAM DATA INVALID Replace system controller board
 if problem persists due to possible intermittent NVRAM
 8211 Info window ANALOG-TO-DIGITAL System controller board
 8212 Info window GRAPHIC SYNC FAILURE Sync card or System controller board
 8213 Info window TIME OF DAY CLOCK Set time and Date. If problem
 if problem persists replace System controller board, Sync card or Audio card
 8214 Info window SPEECH LOGIC FAILURE Audio card, System controller board
 or Power supply
 8215 Info window INTERNAL RS 232C WRAP System controller board
 8216 Info window EXTERNAL RS 232C WRAP Run test with the wrap plug on
 8217 Info window HIGH RESOLUTION SYNCs
 If the test screen was distorted IBM EGA card or IBM EGA jumper card
 If the test screen was readable Sync card or System controller board
 8218 Info window LOW FREQUENCY SYNCs
 If the test screen was distorted IBM EGA card or IBM EGA jumper card
 If the test screen was readable Sync card or System controller board
 8219 Info window EGA RGB SIGNALS TEST EGA, jumper, sync or system controller
 8220 Info window RGB INSERT COMPARE Sync card
 8221 Info window MISSING HI/LOW BEEPS Audio card or System controller board
 8222 Info window RT CHANNEL AUDIO Audio card or System controller board
 8223 Info window LT CHANNEL AUDIO Audio card or System controller board
 8224 Info window NO SYNCs VIDEO A1 Sync, Decoder or System Controller
 8225 Info window NO SYNCs VIDEO A2 Sync, Decoder or System Controller
 8226 Info window 16/64 COLOR MODE Switching card or System Controller
 8227 Info window LEFT/RIGHT SHIFT Deflectn, System Controller or Swtchg
 8228 Info window AUX MONITOR ON/OFF Decoder or System Controller
 8229 Info window INTERLACE ON/OFF Sync or Deflection boards
 8230 Info window VIDEO INPUT SELECT Decoder or System Controller
 8231 Info window RGB ONLY MODE Sync card
 8232 Info window COMPOSITE ONLY MODE Sync, System Contrllr, Swtchg, Dcodr
 8233 Info window OVERLAY Switching, Deflection or Sync
 8234 Info window RGB/VIDEO Sync card
 8235 Info window SYSTEM TIMER TEST System controller card
 8236 Info window INTERNAL PROGRAM Verify system diskette and ROM levels
 for compatibility or swap System controller board
 8237 Info window CANNOT CALIBRATE Syst contrlr, Touch scrn, Power supply

8238	Info window CONTROL PROGRAM	Contact support - possible Syst ctrlr
8239	Info window CONTROL PROGRAM	Contact support - possible Syst ctrlr
8240	Info window CPU NOT LISTENING	IBM GPIB card or System controller
8241	Info window GPIB SEND/RECV COUNT	Contact support
8242	Info window RS-232C INTERFACE	Run the wrap test with plug on display
	Possible System controller board problem	
8243	Info window TOUCH SCREEN	System controller board
8244	Info window FAILURE OF VDP-1	Locate problem in VDP-1 cable
8245	Info window FAILURE OF VDP-2	Locate problem in VDP-2 cable
8246	Info window A1/A2 DETECTION	Sync card or System controller board
8247	Info window HIGH RESOLUTION SYNCs	Sync card
8248	Info window TV FREQUENCY SYNCs	Sync card
8249	Info window GPIB (BUS)	System controller board
8250	Info window CRC ERRORS DETECTED	IEEE 488 cable, GPIB card or Syst ctrl
8251	Info window CRC ERRORS DETECTED	IEEE 488 cable, GPIB card or Syst ctrl
8252	Info window GPIB TIME OUT	GPIB card, Syst controller,
	IEEE 488 cable, Power supply or Videodisc player problem	
8253	Info window GPIB TIME OUT	(Same as 8252)
8254	Info window GPIB SEQUENCE ERROR	Contact support
8255	Info window INT PROGRAM ERROR	Contact support - possible Syst ctrlr
8256	Info window TIME OUT	Syst controller, Sync card,
	IEEE 488 cable or IBM PC GPIB card	
8257	Info window RETRIES OF CRC ERRORS	Syst ctrl, IEEE 488 cable or GPIB card
8258	Info window ERROR IN GPIB COMMS	Syst ctrl, IEEE 488 cable or GPIB card
8259	Info window GPIB CONTROLLER ERROR	GPIB card, IEEE 488 cable or Syst ctrl
8260	Info window INSERT CONTROL LOGIC	Sync card or System controller board
8261	Info window WRONG RGB COLOR	Video output board, Switching card,
	Sync card, System controller board or CRT and yoke assembly	
8262	Info window PLAYER RESPONSE	Verify videodisc on and has videodisc
	Follow IBM Infowindow instructions to test videodisc player interface	
8263	Info window ADDITIONAL EQUIPMENT	If Audio problem, replace audio card
	If dual frequency monitor problem, replace switching card	
	If color composite monitor problem, replace decoder card	
8264	Info window RGB OUTPUT SIGNALS	Sync card
8265	Info window EGA CLOCK ERROR	IBM EGA jumper card or IBM EGA card
8266	IBM EGA jumper interrupt error	EGA switches, jumper card or adapter
8267	Info window EGA GRAPHICS SYNC	Sync cable, Jumper, Sync or EGA cards
8268	Sync present without cable	IBM EGA card
8269	No audio videodisc 1/L input	Audio card
8270	No audio videodisc 2/R input	Audio card
8271	Info window IBM EGA CARD	Check out EGA card
8272	Info window EGA MEMORY FAILURE	Replace IBM EGA card

8273	Info window EGA GRAPHICS MEMORY	Check out EGA memory modules
8274	Reserved	Contact support
8275	Reserved	Contact support
8276	Diskette cannot support	See IBM Infowindow
8276	Display rom level	compatibility levels
8277	Reserved	Contact support
8278	Info window HI RES DISPLAY	Switching card, Sync ard or EGA
8279	Info window TIME OF DAY CLOCK	System controller board
8280	IBM PC DOS ERROR OCCURRED	Follow directions on screen

84xx Speech Adapter errors

8530 - IBM XMA (Expanded Memory Adapter).

Determine if the XMA card appears in your Installed Devices list when running the diagnostics. If the list does not match your configuration (either the list says the card is present, when it is not in fact present; or the list says the card is not present when it in fact IS present), try re-running SETUP (menu option 4) and see if the error goes away. If the card is present and the list shows it, verify that the amount of memory reported matches the amount of memory on the card. If it does not, then perhaps you have the XMA and/or system board memory jumpers set incorrectly. Also make sure that you have no other memory adapters addressing the 256K-640K space.

8601 (PS/2) System board error or mouse error

8602 (PS/2) User indicated mouse error--Include DASDDRVR.SYS in your CONFIG.SYS
Load Reference Diskette and type A:INSTALL

8602 POST error may be a a bad mouse

8603 (PS/2) System board or mouse error

8604 (PS/2) System board or mouse error

8611 (Thinkpad) Keyboard pointing stick error

8612 (Thinkpad) Keyboard control card error

8613 (Thinkpad) System board error

89xx IBM Music card

91xx 3363 optical drive error: Reset cables and adapters
Attempt F1 after error code and run Advanced Diagnostics.

9101 Optical disk - Drive #1 failed - Reseat Cables and Adapter

9102 Optical disk - Drive #1 failed - Reinsert Cartridge, Reseat Adapter

9103 Optical disk - Drive #1 failed - Reseat Cables and Adapter

9104 Optical disk - Drive #2 failed - Reseat Cables and Adapter

9105 Optical disk - Drive #2 failed - Reinsert cartridge,Reseat cables+Adaptr

9106 Optical disk - Drive #2 failed - Reseat cables and Adapter

9107 Optical disk - Adapter hung on BUSY - Reseat Cables and Adapter

9110 Optical disk - Data not recorded - Check Adapter, Drive, Cable

9111 Optical disk - Data not readable - Check Adapter, Drive, Cable

9112 Optical disk - Sector demarked - Check Adapter, Drive, Cable
9113 Optical disk - Controller Error - Check Adapter, Drive, Cable
- Check switch settings on Adapter DS302 (check setting 8088 vs 80286)
9114 Optical disk - Sector Read/Write Error - Check Drive, Adapter, or Cable
9115 Optical disk - Scramble Buffer Error - Check Drive, Adapter and Cable
9116 Optical disk - Data Buffer Error - Check Drive, Adapter and Cable
9117 Optical disk - Drive RAM/ROM Error - Check Drive, Adapter and Cable
9118 Optical disk - Invalid Command - Check Drive, Adapter, Cable
9119 Optical disk - Track Jump Error - Check Drive, Adapter, Cable
9120 Optical disk - Laser Error - Check Drive, Adapter, or Cable
9121 Optical disk - Focus Error - Check Cartridge, Drive, Adapter, or Cable
9122 Optical disk - Motor Sync Error - Cartridge upside down
- Check Drive, Adapter, Cable
9123 Optical disk - Write Fault - Check Drive, Adapter, or Cable
9124 Optical disk - General Drive Error - Check Drive, Adapter and Cable
9125 Optical disk - Sense Command Failed - Check Drive, Adapter and Cable
9126 Optical disk - Invalid Command - Check Drive, Adapter, Cable
9127 Optical disk - Sense Command Failed - Check Drive, Adapter and Cable
9128 Optical disk - Disk Not Initialized - Check Drive, Adapter and Cable
9129 Optical disk - Disk ID Did Not Match - Check Drive, Adapter and Cable
9130 Optical disk - Read-Only Disk Installed - Chk Disk, Drive, Adaptr, Cable
9131 Optical disk - No Disk Present - Check Disk, Drive, Adapter, Cable
9132 Optical disk - Illegal Disk Detected - Check Disk, Adaptr, Drive, Cable
9133 Optical disk - No Disk Change Detected - Check Drive, Adapter, Cable
9134 Optical disk - Read-Only Disk Detected - Check Drive, Adapter, Cable
9135 Optical disk - Illegal Disk Detected - Check Drive, Adapter, Cable
9136 Optical disk - Sense Command Failed - Check Adapter, Drive, Cable
9138 Optical disk - No Disk Change Detected - Retry test again
- Check Drive, Adapter, Cable
9141 Optical disk - No Disk Change Detected - Retry tests (See 9138)
9144 Optical disk - WRITE-PROTECT Window Not Opened - Retry tests (See 9138)
9145 Optical disk - No Disk Change Detected - Retry tests (See 9138)
9146 Optical disk - WRITE-PROTECT Window Not Closed - Retry tests (See 9138)
9148 Optical disk - Adapter Card - Check Adapter, Drive, or Cable
9150 Optical disk - Seek Command Failed - Check Drive, Adapter, Cable
9151 Optical disk - Not At Track Zero - Check Drive, Adapter, Cable
9152 Optical disk - Track Address Error - Check Drive, Adapter, Cable
9153 Optical disk - Not At Track 17099 - Check Drive, Adapter, Cable
9154 Optical disk - Track Address Error - Check Drive, Adapter, Cable
9155 Optical disk - Track Address 17K Not Found - Check Drive, Adapter, Cable
9156 Optical disk - Seek Time Too Long - Check Drive, Adapter, Cable
9157 Optical disk - Sense Command Failed - Check Drive, Adapter, Cable

9158 Optical disk - No Data Read Error Found - Check Drive, Adapter, Cable
 9159 Optical disk - No Null Sector Found - Check Drive, Adapter, Cable
 9160 Optical disk - Sense Command Failed - Check Drive, Adapter, Cable
 9161 Optical disk - Write Command Failed - Check Drive, Adapter, Cable
 9162 Optical disk - Data Compare Error - Check Drive, Adapter, Cable
 9163 Optical disk - Read Verify Error - Check Drive, Adapter, Cable
 9164 Optical disk - Demark Verify Failed - Check Drive, Adapter, Cable
 9165 Optical disk - Demark Bit Not Set - Check Drive, Adapter, Cable
 9166 Optical disk - Seek 1/3 Timing Error - Check Drive, Adapter, Cable
 9167 Optical disk - Seek 2/3 Timing Error - Check Drive, Adapter, Cable
 9168 Optical disk - Seek 3/3 Timing Error - Check Drive, Adapter, Cable
 9170 Optical disk - Seek Error Set - Check Drive, Adapter, Cable
 9171 Optical disk - Controller RAM/ROM Error - Check Drive, Adapter, Cable
 9172 Optical disk - Demark Function Error - Check Drive, Adapter, Cable
 9173 Optical disk - Detected Error Set - Check Drive, Adapter, Cable
 9174 Optical disk - Modulator/Demodulator Error - Check Drive, Adapter, Cable
 9175 Optical disk - Invalid Command - Check Adapter, Drive, Cable
 9176 Optical disk - Illegal Disk Error - Check Adapter, Drive, Cable
 9177 Optical disk - Both drives set to same address or wrong address
 9178 Optical disk - ID Mismatch - Check Drive, Adapter, or Cable
 9179 Optical disk - Sector Not Found - Check Drive, Adapter, Cable
 9181 Optical disk - Sense Command Failed - Check Drive, Adapter, Cable
 9182 Optical disk - Read Command Error - Check Drive, Adapter, Cable
 9185 Optical disk - Diagnostic Track Error - Check Drive, Adapter, Cable
 9186 Optical disk - Diagnostic Demark Error - Check Drive, Adapter, Cable
 9187 Optical disk - No Demark Bit Set - Check Drive, Adapter, Cable
 9198 Optical disk - Invalid Command - Re-IPL CPU with ON/OFF switch
 96xxxT SCSI Adapter w/cache, SCSI device or system board
 For T=
 A 60MB B 80MB C 120MB D 160MB E 320MB F 400MB
 G 40MB H 1GB I 100MB J 200MB U Undetermined
 10001 (PS/2) Can not detect presence of Multi Protocol Communications Adapter
 10002 (PS/2) Card selected feedback error
 10003 (PS/2) Port 102H register test failure
 10004 (PS/2) Port 103H register test failure
 10006 (PS/2) Serial option can not be put to sleep
 10007 (PS/2) Cable error
 10008 (PS/2) Async IRQ3 error
 10009 (PS/2) Async IRQ4 error
 10010 (PS/2) 16550 async chip register failure
 10011 (PS/2) Internal wrap test of 16550 modem control line failure
 10012 (PS/2) External wrap test of 16550 modem control line failure

10013 (PS/2) 16550 transmit error
10014 (PS/2) 16550 receive error
10015 (PS/2) 16550 receive error data not equal transmit data
10016 (PS/2) 16550 interrupt function error
10017 (PS/2) 16550 fails baud rate test
10018 (PS/2) 16550 interrupt driven receive external data wrap test failure
10019 (PS/2) 16550 FIFO
10026 (PS/2) 8255 Port A error
10027 (PS/2) 8255 Port B error
10028 (PS/2) 8255 Port C error
10029 (PS/2) 8254 timer 0 error
10030 (PS/2) 8254 timer 1 error
10031 (PS/2) 8254 timer 2 error
10032 (PS/2) Bisync DSR response to DTR error
10033 (PS/2) Bisync CTS response to RTS error
10034 (PS/2) 8251 hardware reset test failed
10035 (PS/2) 8251 function error: internal software reset test failed
10035 (PS/2) 8251 error reset command failed or 8251 can not detect overrun err
10036 (PS/2) 8251 status error: 8251 Tx ready error
10037 (PS/2) 8251 Rx ready error or Bisync timer interrupt error
10038 (PS/2) Bisync transmit interrupt error
10039 (PS/2) Bisync receive interrupt error
10040 (PS/2) Stray IRQ3 error
10041 (PS/2) Stray IRQ4 error
10042 (PS/2) Bisync external wrap error
10044 (PS/2) Bisync data wrap error
10045 (PS/2) Bisync line status/condition error
10046 (PS/2) Bisync time out error during data wrap test
10050 (PS/2) 8273 command acceptance or results ready time out error
10051 (PS/2) 8273 Port A error
10052 (PS/2) 8273 Port B error
10053 (PS/2) SDLC modem status change logic error
10054 (PS/2) SDLC timer interrupt (IRQ4) error
10055 (PS/2) SDLC modem status change interrupt (IRQ4) error
10056 (PS/2) SDLC external wrap error
10057 (PS/2) SDLC interrupt results error
10058 (PS/2) SDLC data wrap error
10059 (PS/2) SDLC transmit interrupt error
10060 (PS/2) SDLC receive interrupt error
10061 (PS/2) DMA channel 1 error (transmit)
10062 (PS/2) DMA channel 1 error (receive)
10063 (PS/2) 8273 status detect failure

10064 (PS/2) 8273 error detect failure
10101 (PS/2) Can not detect presence of modem
10102 (PS/2) Card selected feedback error
10103 (PS/2) Port 102H register test failure
10106 (PS/2) Serial option can not be put to sleep
10108 (PS/2) Async IRQ3 error
10109 (PS/2) Async IRQ4 error
10110 (PS/2) 16450 async chip register failure
10111 (PS/2) Internal wrap test of 16450 modem control line failure
10113 (PS/2) 16450 transmit error
10114 (PS/2) 16450 receive error
10115 (PS/2) 16450 receive error data not equal transmit data
10116 (PS/2) 16450 interrupt function error
10117 (PS/2) 16450 fails baud rate test
10118 (PS/2) 16450 interrupt driven receive external data wrap test failure
10125 (PS/2) Modem reset result code error
10126 (PS/2) Modem general result code error
10127 (PS/2) Modem S registers write/read error
10128 (PS/2) Modem turn echo on/off error
10129 (PS/2) Modem enable/disable result codes error
10130 (PS/2) Modem enable number/word result codes error
10133 (PS/2) Connect results for 300 baud not received
10134 (PS/2) Connect results for 1200 baud not received
10135 (PS/2) Modem fails local analog loop back test at 300 baud
10136 (PS/2) Modem fails local analog loop back test at 1200 baud
10137 (PS/2) Modem does not respond to escape/reset sequence
10138 (PS/2) S reg 13 does not reflect correct parity or number of data bits
10139 (PS/2) S reg 15 does not reflect correct bit rate
102XX (PS/2) 4250 Print Adapter failure
10400 (PS/2) Unknown. FRU drive, then controller, then system board
10403 (PS/2) Defective 120M byte hard-disk drive.
10436 (Thinkpad, N51) System board, fixed disk or cable error
10440 - 10447 (PS/2) 8550-021 60 Meg ESDI Adapter Error.
10450 (PS/2) Replace drive (read write test failed)
10451 (PS/2) Replace drive (read verify test failed)
10452 (PS/2) Replace drive (seek test failed)
10453 (PS/2) Replace drive (wrong device type indicated)
10454 (PS/2) Controller (controller test failed sector buffer test)
10455 (PS/2) Controller failure
10456 (PS/2) Controller (diag command failure) -- Replace drive
10457 (PS/2) Repl. drive (integrated controller test failure)
10458 (PS/2) Repl. drive (integrated controller test failure)

10458 (PS/2) If 8570-121 or 8570-A21 see ECA020
10459 (PS/2) Replace drive (diag command failure)
10460 (PS/2) Unknown. FRU drive, then controller, then system board
10461 (PS/2) Drive format error
10462 (PS/2) Controller (head select error)
10463 (PS/2) Drive (read/write sector error)
10464 (PS/2) Drive (primary map unreadable)
10465 (PS/2) Controller (ECC 8 bit error)
10466 (PS/2) Controller (ECC 9 bit error)
10467 (PS/2) Drive (soft seek error)
10468 (PS/2) Drive (hard seek error)
10469 (PS/2) Drive (soft seek error count exceeded)
10470 (PS/2) Controller (attachment diagnostic error)
10471 (PS/2) Controller (wrap mode interface error)
10472 (PS/2) Controller (wrap mode drive select error)
10473 (PS/2) Unknown. FRU drive, then controller, then system board
The controller has found a sector on the disk with bad ECC. This is very easy to cause. It is usually not a hardware failure. The only way to fix the failure besides a reformat is to find the sector and rewrite it.
There is no need for a low level format; A DOS format should fix it.
10474 (PS/2) Unknown. FRU drive, then controller, then system board
10475 (PS/2) Unknown. FRU drive, then controller, then system board
10476 (PS/2) Unknown. FRU drive, then controller, then system board
10477 (PS/2) Unknown. FRU drive, then controller, then system board
10478 (PS/2) Unknown. FRU drive, then controller, then system board
10479 (PS/2) Unknown. FRU drive, then controller, then system board
10480 (PS/2) Drive 0 seek failure or Controller (com/data - attention bad)
Faulty C: drive, a seek failure. Replace the drive.
10481 (PS/2) Drive 1 seek failure or Controller (xfr req - ready bad)
10482 (PS/2) Controller test failure or Controller (drv sel 1 - xfr ack bad)
10483 (PS/2) Controller reset fail or Controller (drv sel 0 - config/stat bad)
Fixed by pulling/re-plugging the T-card between system board and hard disk
Also reported fixed by replacing suspect drive
10484 (PS/2) Controller (head sel 3 - selected bad)
10485 (PS/2) Controller (head sel 2 - selected bad) << See 10483
10486 (PS/2) Controller (head sel 1 - selected bad)
10487 (PS/2) Controller (head sel 0 - selected bad)
10488 (PS/2) Controller (rg - cmd complete 2)
10489 (PS/2) Controller (wg - cmd complete 1)
10490 (PS/2) Drive 0 read failure or Controller (drive connected no test done)
10491 (PS/2) Drive 1 read failure
10499 (PS/2) Controller failure

106xx Ethernet Adapter
107xx 1.2MB Internal/External Adapter
10701 (PS/2) Post Error Replace Adapter
10759 (PS/2) Write-protect error
109xx Action Media Adapter
10917 Audio wrap or speaker problem
10919 Video cable bad or not connected
1094x Capture option bad
112xx SCSI adapter or any SCSI device
11944 3119 Adapter Error Replace Adapter
11945 3119 Possible Power Supply or Lamp Problem.
11950 - 11954 3119 Lamp or Optics Problem.
11957 - 11958 3119 Possible Optics problem or 3119 Adapter Problem.
121xx 3/12/24 Internal Modem
12101 ISDN Adapter error
12110 Defective ISDN adapter
12120 Defective ISDN adapter or wrap connector
129xx Processor card errors: RE-SEAT THE PROCESSOR CARD and second level cache
12901 Processor Error
12902 Cache Error: Re-seat connection between the processor board (daughter
card) and main planar
12903 Coprocessor Error
12904 Second level cache failure. Problem may be require replacing the cache
card attached to the processor card.
12905 (PS/2) Second level cache warning
12906 (PS/2) Second level cache warning
12907 (PS/2) Second level cache fatal error
12908 (PS/2) Second level cache POST error
12913 DMA Error
130xx ThinkPad Indicator Assembly or system board or any device
137xx ThinkPad, N51, or Model 90/95 serial adapter (system board)
141xx Real Time Interface Coprocessor Portmaster/A
143xx Japanese Display Adapter
14710 Video memory, Model 90/95 processor or system board, or Plasma display
14711 Video memory, Model 90/95 processor or system board, or Plasma display
148xx System board video memory, P75 display card
14901 Try FRU Plasma Display Adapter then System board, Plasma display
14902 Try FRU Plasma Display Adapter then System board, Plasma display
14922 Try FRU Plasma Display then Plasma display adapter, System brd
14932 Try FRU External Display then Plasma display adapter
14952 P75 Plasma display assembly
15201 XGA adapter card -- card found problems when running the VGA

tests against itself.

15202 XGA adapter card -- card found problems testing the advanced function of XGA -- likely to be memory past the first 256K or the Sprite

15203 XGA adapter card -- card can generate this error from the final set of tests

161xx Fax Concentrator Adapter

16451 (PS/2) Not enough memory to operate the tape drive

16452 (PS/2) Cartridge presence error

16453 (PS/2) Servo electronics/mechanism failed

16454 (PS/2) The cartridge was not formatted, or read chain failed

16455 (PS/2) The EOT test failed

16456 (PS/2) The BOT test failed

16457 (PS/2) Track following error -- servo electronics/mechanism failed

16458 (PS/2) Internal software error

16459 (PS/2) Floppy disk controller failure

16460 (PS/2) Internal software error

16461 (PS/2) Unrecoverable read error -- drive failure

16462 (PS/2) Internal software error

16463 (PS/2) User changed the cartridge

16464 (PS/2) DMA controller failure

16465 (PS/2) General drive failure

16466 (PS/2) No internal tape drives were found

16467 (PS/2) Write protect switch failed

16468 (PS/2) Unrecoverable write error -- drive failure

16469 (PS/2) Defective cartridge

16520 (PS/2) 6157 Tape Drive Error

16540 (PS/2) 6157 Tape Attachment -- Adapter or Drive Error FRU Unknown

Use latest level Reference Diskette

When servicing an 8570 Model A21 (25mhz), use 6157 option diskette, version 1.02 (or higher). The programs on the option diskette must be merged onto the System Reference Diskette.

166xx Primary Token-Ring Network PC Adapter

16600 Indicates Good Primary Adapter

Other codes indicate failure

167xx Alternate Token-Ring Network PC Adapter

16700 Indicates Good Alternate Adapter

Other codes indicate failure

180xx or 1801xx (PS/2) Wizard adapter coprocessor busmaster card w/Intel i860

18001-18029 Indicates problems with the PS/2 Wizard Adapter

18031-18039 Indicates problems with the memory expansion board

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
 18013 - MicroChannel interface error -- CLEAN card contacts
 18021 - Memory error or parity error - Wizard (card) memory
 18022 - Address line error - Wizard (card) memory
 18023 - Dram controller failure
 18029 - Byte enable error - Wizard (card) memory
 18031 - Memory error or parity error - expansion (card) memory
 18032 - Address line error - expansion (card) memory
 18039 - Byte enable error - expansion (card) memory
 1801xx PS/2 Wizard Adapter hardware error detected by software
 180101-180129 Indicate problems with the PS/2 Wizard Adapter
 180131-180139 Indicate problems with the memory expansion board
 Interpret 1801xx errors using 180xx codes above
 180164 - Memory size determined smaller than configured memory
 180166 - Memory size determined larger than configured memory
 18431 - Memory error detected on 80386 Enhanced Memory Option card
 18441 - Unsupported SIMM(s) detected
 18451 - Change in SIMM configuration
 185xx DBCS Japanese Display Adapter/A
 194XX 2-8MB 80286 Memory Expansion Adapter
 20000 Image Adapter/A error
 PS/2 Model 80, OS/2 1.3, 2 monitors (Image Adapter/A and VGA).
 Running a PM application on the Image Adapter.
 Screen suddenly goes blank except for following 2 lines in upper left corner
 111
 ????
 It indicates that one of your adapter cards has pulled the -CHCK line,
 NMI indicating that it has had an error of some sort. (This line goes to
 the interrupt on the processor, which puts up this cryptic message.)
 It is not easy to determine which card is at fault, or why.
 20xyz Image Adapter/A error codes
 All Image Adapter/A error codes are of a 20xyz format. The x variable
 is defined as follows:
 200yz; x = 0 - Original Image adapter card error code
 201yz; x = 1 - Original Image adapter card plus daughter card error code
 204yz; x = 4 - Later Image adapter card error code
 205yz; x = 5 - Later Image adapter card plus daughter card error code
 The yz variable is defined as follows :-

Mother Board Errors

20001 20101 20401 20501; yz = 01 - PROM check sum test error
20002 20102 20402 20502; yz = 02 - Register test error
20003 20103 20403 20503; yz = 03 - Instruction RAM test error
20004 20104 20404 20504; yz = 04 - Local RAM test error
(ie VRAM or DRAM problem). Check
installation of memory chips or run
diagnostics to locate failing chip.
20005 20105 20405 20505; yz = 05 - Pixel interface test error
20006 20106 20406 20506; yz = 06 - CRTC test error
20007 20107 20407 20507; yz = 07 - Palette test error
20008 20108 20408 20508; yz = 08 - DAC test error. With 6091, check that IA/
output cable is not plugged into the 6091
outputs.
20010 20110 20410 20510; yz = 10 - Interrupt test error
20098 20198 20498 20598; yz = 98 - Bus mastership test error
20099 20199 20499 20599; yz = 99 - Slot test error

Option Card Errors

20111 20511; yz = 11 - Scanner wrap test error
20112 20512; yz = 12 - Scanner serial to parallel shift test error
20113 20513; yz = 13 - Scanner line synchronisation counter test error
20114 20514; yz = 14 - Printer wrap test error
20115 20515; yz = 15 - Printer parallel to serial shift test error
20116 20516; yz = 16 - SCC Tx/Rx loop back test error
20117 20517; yz = 17 - SCC register test error
20118 20518; yz = 18 - External conditions and external interrupt test error
20119 20519; yz = 19 - Processor failed to stop
20008 Image Adapter failure -- Accompanied by Long-Short-Short
Advanced Diagnostics error was 02000860
Check that outputs of the IA card are not hooked into the OUTPUTS of the 6091
POST and Image Adapter diagnostics are misleading
DO NOT attempt to F1 past the POST error into OS/2. It will actually "work"
but will rewrite your OS/2 .INI files for low-resolution operation.
10 - Interrupt test error
98 - Bus mastership test error
99 - Slot test error

Option Card Errors

11 - Scanner wrap test error
12 - Scanner serial to parallel shift test error
13 - Scanner line synchronization counter test error

- 14 - Printer wrap test error
- 15 - Printer parallel to serial shift test error
- 16 - SCC Tx/Rx loop back test error
- 17 - SCC register test error
- 18 - External conditions and external interrupt test error
- 19 - Processor failed to stop

208xx Any SCSI device
242xx ISDN/2 Adapter
243xx XGA-2 Display Adapter
258xx System Board video failure

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