When an error occurs after the video has been initialized, a description
of the err appears on the screen followed by this prompt:

Press <F1> to continue, or <Ctrl+Alt+Esc> to run System Setup.

At the prompt, you can press <F1> and continue normal processing, press
<Ctrl+Alt+Esc> and rerun System Setup, or turn off the system and perform
necessary adjustments or replacements indicated by the error message.

A number, in the format xx,yy appears in front of the message. xx
indicates the problem component (see table below), and yy represents the
test that failed

                         Error Message Classes

Class	Description
01	Microprocessor
03-04, 14-15	System board
05, 08	Memory
06	Video
09	Cache memory
10	Software
11	CMOS data storage
12	Hard and floppy disk drives
13	Serial, parallel, and other communication ports
18	Personality module (Bravo LP only)

The following list describes the type of problem indicated by the error
number. You can use this information to get more detail on the problem
described in the message.

01.01-Protected mode cannot be enabled because it failed as the system
      sized extended memory.

03.01-The system halted because it detected a parity error. If the error
      occurred in memory below 1 MB, the message includes the segment
      where the error occurred.

03.02-The system halted because, while running, it detected an I/O channel
      check error.

03.10-The mask bits in interrupt controller 1 did not retain the data
      written to them.

03.11-The mask bits in interrupt controller 2 did not retain the data
      written to them.

03.12-The interrupt controller did not respond to an interrupt.

03.13-The system could no clear NMI control bits.

03.16-The system Setup configuration CMOS update-in-progress flag was
      stuck.

05.01-The move-shadow-RAM test failed. Shadow RAM did not store data
      correctly.

05.02-A memory verify error occurred during test of memory below 1MB.

05.03-A memory parity error occurred during test of memory below 1MB.

05.04-A memory verify error occurred during test of memory above 1MB.

05.05-A parity error was detected while testing memory above 1MB

05.06-The system detected a memory address error while testing for shorts
      and opens.

06.01-The primary video switch was set to color when a monochrome monitor
      was attached

06.02-The primary video switch was set to monochrome when a color monitor
      was attached.

06.03-System Setup was configured for a monochrome or CGA monitor when an
      EGA or VGA monitor was attached.

09.07-The testing of external cache memory failed because the test pattern
      did not verify.

09.08-The testing of external cache memory failed because the test pattern
      did not change.

09.09-The testing of the internal or external cache memory failed because
      the cache would not zero out.

09.10-The system did not have enough memory to test cache memory. The
      system needs at least 2MB for the cache test.

10.01-The system could not find a device with an operating system that
      would enable it to boot.

11.01-A battery failure caused the loss of CMOS data.

11.02-CMOS data failed the data path test.

11.03-The system set the factory-default CMOS configuration.

11.04-AT-compatible CMOS data had a bad checksum.

11.05-AST CMOS data had a bad checksum.

11.06-CMOS diagnostic byte memory size status was bad.

11.07-CMOS diagnostic byte equipment configuration status was bad.

11.08-The hours value stored in the System Setup Configuration CMOS was
      incorrect (above 23). If the error could not be corrected in System

Setup, the system board has failed.

11.09-The minutes value stored in the System Setup Configuration CMOS was incorrect (above 59). If the error could not be corrected in System Setup, the system board has failed.

11.10-The floppy-drive configuration in System Setup did not match the drive.

11.11-The user password checksum is incorrect. Replace the battery.

11.12-The admin password checksum is incorrect. Replace the battery.

11.13-The serial number of asset-management tag in CMOS is invalid. Run the system-configuration utility to restore the data.

12.01-The system could not reset the hard drive while trying to load the operating system from it.

12.02-The hard drive timed out a the system tried to load the operating system from it.

12.03-The system could not reset the floppy drive while trying to load the operating system from it.

12.04-The hard drive timed out while waiting for the hard-drive controller to become available. The hard-drive signal and power cables might not be properly connected.

12.05-The hard-drive controller failed its internal diagnostics. The hard-drive signal and power cables might not be properly connected.

12.06-The system timed out while waiting for a hard drive to become ready.

12.07-The system timed out while sensing the hard-drive parameters. The system was waiting for a response from the hard drive after a reset command.

12.08-The system could not verify the existence of a hard drive while writing and reading the sector-count register during autosensing.

12.09-The system tried to autosense the hard-drive once more by writing and reading the sector-count register. Again, the system could not verify the existence of a hard drive.

12.10-The system timed out while attempting to autosense the hard-drive parameters. The system was waiting for a response by the hard drive to a recalibrate command.

12.11-The heads parameter returned from the drive was larger than what the BIOS can support. The IOS rounded the parameter down so it can support the drive; however, this process left unused disk space. Some drives may have alternate drive geometries that will fit. Enter these with the user-defined selection in the hard-drive-type fields in System Setup.

12.12-The sectors-per-track parameter returned from the drive was larger

than what the BIOS can support. The BIOS rounded the parameter down
so it can support the drive; however, this process left unused disk
space. Some drives may have alternate drive geometries that will
fit. Enter these with the user-defined selection in the hard-drive-
type fields in System Setup.

12.13-The cylinders parameter returned from the drive was larger than
what the BIOS can support. The BIOS rounded the parameter down so
it can support the drive; however, this process left unused drive
space. Some drives may have alternate drive geometries that will
fit. Enter these with the user-defined selection in the hard-drive-
type fields in System Setup.

12.14-The system timed out while attempting to autosense the hard drive
parameters. The system was waiting for a response by the hard drive
to an identify-drive command.

12.15-Floppy drive was not present.

12.16-Floppy-drive change line did not clear.

12.17-Floppy-drive controller did not respond to a request to send a
specify command.

12.18-Floppy-drive seek attempt failed.

12.19-The floppy-drive controller did not accept a command.

12.20-A command to the floppy-drive controller timed out.

12.21-A command to the floppy-drive controller failed because of a DMA
problem.

12.22-The system could not recalibrate a floppy drive successfully.

12.23-The floppy-drive controller could not seek.

12.24-The system received an "incorrect command" response after sending
a valid command to the floppy-drive controller.

12.25-The floppy-drive controller did not find a valid sector ID.

12.26-An invalid CRC detected during a floppy-drive I/O operation.

12.27-The floppy-drive controller overran the DMA.

12.28-The floppy disk was write protected.

12.29-The system could not find an address ark on the floppy disk.

12.30-The floppy-drive controller reported a miscellaneous error.

12.31-The system timed out waiting for a floppy-drive controller seek,
recalibrate, or reset commands to complete (no interrupt).

12.32-The floppy-drive controller failed to respond when trying to sense
status after a seek, recalibrate, or reset command.

12.33-The floppy-drive controller responded with more than the correct
    number of status bytes after a seek, recalibrate, or reset command.

12.34-The floppy-drive controller failed to respond to a status request
    after a seek, recalibrate, or reset command.

12.35-The floppy-drive controller responded to a sense command with an
    incorrect number of bytes after a seek, recalibrate, or reset
    command.

12.36-The floppy-drive controller failed during a seek command.

12.37-The floppy-drive controller failed during a read-ID command.

12.38-A floppy-drive controller command went beyond the end of the media.

12.39-The system could not read the ID on track 0 because the disk was not
    formatted properly, or the drive type or transfer rate did not
    match.

12.40-The system timed out while waiting for results from the floppy-drive
    controller.

12.41-A floppy-drive DMA boundary error occurred.

12.42-A command to the floppy-drive controller timed out.

12.43-The system did not support the requested hard-drive function.

12.44-The hard drive did not become ready after a reset command.

12.45-The requested hard-disk transfer was too long (over 65,536 bytes).

12.46-The system timed out while waiting for the hard-drive controller to
    become ready.

12.47-The hard-drive controller did not request data as expected after it
    was sent a command.

12.48-The hard-drive controller did not request more data after it
    received a command and some data.

12.49-The system timed out while waiting for an interrupt from the hard
    -drive controller.

12.50-The hard disk attempted to seek.

12.51-The hard-drive controller failed because of an unclassified error.

12.52-The system timed out waiting for the hard disk to become ready.

12.53-Hard-drive initialization failed during a set-parameter command.
    The hard-drive controller indicated that the drive was ready when it
    was actually busy.
12.54-A hard-drive write-fault error occurred.

12.55-The system received a drive not ready error while initializing the
        hard-drive with the set-parameter command.

12.56-The system received a seek fail error while initializing the hard
        drive with the set-parameter command.

12.57-The system received an ECC error while initializing the hard drive
        with the set-parameter command.

12.58-The system received an unspecified error while initializing the hard
        drive with the set-parameter command.

12.59-The hard-drive controller was not ready before an attempt to send a
        drive diagnostics command.

12.60-The hard-drive controller was not ready during an attempt to send a
        drive-diagnostics command.

12.61-The hard-dive controller returned an error from a drive diagnostics
        command.

12.62-The hard drive was not ready after being sent a set-parameter
        command.

12.63-The hard-drive controller failed to respond to a recalibrate
        command.

12.64-The requested hard disk did not exist.

13.01-There was a conflict in serial port addresses.

13.02-There was a conflict in parallel port addressed.

13.03-There was a conflict in LAN module ROM indication.

13.04-The keyboard did not respond to a reset request, probably because
        the test was obsolete.

13.05-The keyboard did not respond to a reset request because it did not
        receive an ACK signal.

13.06-The keyboard did not respond to a reset request because the status
        byte returned from the keyboard after self-test was not 0AAh.

13.07-A key was stuck on the keyboard. Error may have occurred because
        the user pressed a key during the boot process.

13.08-The parameters autosensed during boot are different from those
        sensed the last time the system was booted. This message may appear
        if boards were added or removed since the last time the system ran
        or because CMOS failed. If the CMOS failed, other messages appear
        on the screen.

18.01-The personality module code in BIOS did not match the module that is
        installed in the system.