

# E *System Test Error Codes*

This appendix lists error codes that might be returned if a system test diagnostic fails. When the system test fails while the animated boot icon is being displayed, you can display the text window containing the specific system test error message by typing the NMI key sequence (that is, by pressing the ~ key while holding down the Command bar or both Command keys on keyboards that have two).

## Floating-Point Processing Unit (FPU) Tests

Error Code	Meaning
41	FPU data registers are faulty.
42	FPU and CPU intraprocessor data transfer test failed.
43	FPU arithmetic functional test failed.

## SCC Channel Tests

Error Code	Meaning
51	Port A SCC/DMA transmit interrupt didn't occur within 0.1 seconds.
52	Port A SCC chip didn't receive the loopback character within 0.1 seconds.
53	Port A loopback character doesn't match the character sent.
55	Port B Tx buffer wasn't cleared after waiting for 0.1 seconds.
56	Port B non-DMA transmit wasn't finished within 0.1 seconds.
57	Port B non-DMA loopback character doesn't match the one sent.

## SCSI Channel Tests

<b>Error Code</b>	<b>Meaning</b>
61	FIFO count doesn't match the number of characters loaded.
62	FIFO doesn't contain the data that was loaded.
63	FIFO count doesn't match the number of characters left in FIFO.

Tests that produce the following error codes are executed only if a SCSI drive is installed and the <sup>a</sup>SCSI test<sup>o</sup> parameter is enabled.

<b>Error Code</b>	<b>Meaning</b>
64	FIFO flush command failed.
65	Can't load counter with test pattern.
66	Can't load counter with inversed test pattern.
67	Configuration register failed.
68	SCSI controller doesn't generate interrupt on illegal command.

## **Ethernet Channel Tests**

<b>Error Code</b>	<b>Meaning</b>
71	Couldn't set physical address.
72	Couldn't drain DMA receive buffer.
73	Physical packet not received.
74	Physical packet was garbled.
75	Received a packet with wrong address.
76	Broadcast packet not received.
77	Broadcast packet was garbled.

## **MO Drive ECC Tests**

<b>Error Code</b>	<b>Meaning</b>
81	DMA transfer of raw data to ECC failed.
82	DMA read of encoded data from the ECC failed.
83	DMA transfer of corrupted data back to ECC failed.
84	ECC error count is incorrect.
85	DMA transfer of corrected data from ECC failed.
86	ECC corrected data isn't correct.

## Real-Time Clock Tests

Error Code	Meaning
91	RTC didn't tick after 0.3 seconds.

## Two-Bit Graphics Tests

Error Code	Meaning
a1	Main memory TBG $A*B$ function failed.
a2	Main memory TBG ceiling $(A+B)$ function failed.
a3	Main memory TBG $(1-A)*B$ function failed.
a4	Main memory TBG $A+B-A*B$ function failed.
a5	Video memory TBG $A*B$ function failed.
a6	Video memory TBG ceiling $(A+B)$ function failed.
a7	Video memory TBG $(1-A)*B$ function failed.
a8	Video memory TBG $A+B-A*B$ function failed.

## System-Timer Tests

Error Code	Meaning
c2	System timer can't be set.
c3	System timer interrupt doesn't work.

## Event-Counter Tests

Error Code	Meaning
d1	Event counter didn't tick after 2 microseconds.
d2	Event counter isn't accurate.
d3	Event counter isn't ticking smoothly.

## Sound-Out Tests

Error Code	Meaning
e1	DMA sound-out start failed.
e2	DMA transfer of sound-out data failed.