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Apple IIGS: System Diagnostic Errors

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Here's the currently available, though incomplete, list, with explanations, of error codes generated by the Apple IIGS when running system diagnostics for the Apple II Family (V1.0B1).

Apple IIGS error codes have the form AABCCDD.

Test numbers AA

Error Code (AA)	Test
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"RM"/01	Checksum
02	RAM Moving Inversions
03	Softswitch
04	RAM Address
05	FPI Speed
06	Serial I/O
07	Real Time Clock
08	Battery RAM
09	Front Desk Bus
0A	Shadowing
0B	Interrupts

AA=06 serial test

BB Meaning

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01	Register R/W
04	Tx Buffer empty status
05	Tx Buffer empty failure
06	All sent status fail
07	Rx char available
08	Bad data

AA=03 RAM test

BCC= Address

AA=01 ROM Checksum

BB= Failed checksum

DD=1 Bad RAM

AA=05 Speed
BB=1 speed stuck slow
BB=2 speed stuck fast

AA=08 Battery RAM
BB=01 address test failure and CC= bad address
BB=02 memory failure and CC = pattern, DD = Address

AA=02 Softswitches
Bb= Statereg bit
CC= Read softswitch address

AA=04 Front Desk Bus
BBCC= Bad checksum found
DD=01 FDB toolcode encountered a fatal error and no checksum computed

AA=04 Ram Address
BB= failed bank No
CC= failed bit

AA=06 Clock Test
BBCCDD=not used
DD=01 a fatal error occurred after the test to within a second

AA=0A shadow register functionality

AA=0B Mega II and VGC capability of generating interrupts.
BB=01 VBL interrupt timeout
BB=02 VBL IRQ status fail
BB=03 1/4 SEC interrupt
BB=04 1/4 SEC interrupt
BB=05 ---
BB=06 VGC IRQ
BB=07 SCAN Line

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