

New Technical Notes

Macintosh



®

Developer Support

The ROM Debugger

Platforms & Tools

Revised by:

March 1988

Written by: Louella Pizzuti

June 1986

The debugger in ROM (not present on the Macintosh 128, Macintosh 512, or Macintosh XL) recognizes the following commands:

PC [expr] (program counter)

Typing PC on a line by itself displays the program counter. Typing PC 50000 sets the program counter to \$50000.

SM [address [number(s)]] (set memory)

Typing SM on a line by itself displays the next 96 bytes of memory. Typing SM 50000 will display memory starting at \$50000. Typing SM 50000 4849 2054 6865 7265 2120 will set memory starting at \$50000 to \$4849... Subsequently hitting Return will increment the display a screen at a time.

DM [address] (display memory)

Typing DM on a line by itself displays the next 96 bytes of memory. Typing DM 50000 will display memory at \$50000. Subsequently hitting Return will increment the display a screen at a time.

SR [expr] (status register)

Typing SR on a line by itself displays the status register. Typing SR 2004 sets the status register to \$2004.

TD (total display)

Displays memory at the “magic” location \$3FFC80, which contains the current values of the registers. The registers are displayed in the following order: D0–D7, A0–A7, PC, SR.

G [address] (go)

Executes instructions starting at address. If G is typed on a line by itself, execution begins at the address indicated by the program counter.

Note: If you want to exit to the shell, you just need to type: SM 0 A9F4, then G 0

Note: If you crash into the debugger and the system hangs, try turning off your modem.