

Below is a subroutine which will jump into the ProDOS firmware entry point. It assumes locations \$0042-0047 have been properly set up for a call to the ProDOS firmware.

#### CALL.FIRMWARE

```

LDA    $43                GET SLOT * 16
LSR
LSR
LSR
LSR
ORA    #$C0
STA    $01                hi-byte = $Cslot
LDY    #0
STY    $00                lo-byte = $00
DEY    Y = $FF
LDA    ($00),Y            Contents of $CsFF
STA    $00                $00,01 is entry point
JMP    ($00)

```

To read the status, you have to set up two page zero locations and call the firmware entry point; the size of the partition will be returned in the X- and Y-registers. The following code sets up the proper parameters for reading status and then uses the CALL.FIRMWARE subroutine above to call the ProDOS firmware on the RamFactor card. The example assumes the card is in slot 4:

```

LDA    #0                command code 0 = status
STA    $42
LDA    #$40              slot# of RamFactor * 16
STA    $43
JSR    CALL.FIRMWARE
STY    BLOCKS.HI        # BLOCKS (HI-BYTE)
STX    BLOCKS.LO        # BLOCKS (LO-BYTE)

```

#### Finding Size via Screen Holes

Another method for determining the size of the current partition is to examine the "screen-hole" data after the card has been accessed. The "screen-holes" are locations Apple has reserved for use by the firmware for each slot. There are 8 locations reserved for each slot: