

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:

2. **Remove the lid of your computer:**
  - Pop the hood of the ][, ][ Plus, //e, and Franklin by pulling up on the cover at the rear edge (the edge farthest from the keyboard) until the two corner fasteners pop apart.
  - The IIGS's lid has two fasteners on the sides of the back panel. Push in on the tops of the fasteners with your forefingers while pushing up with your thumbs and heel of your hands on the side of the lid.
3. **Touch the power supply.**

Don't worry, it's safe! This will discharge any static electricity that may be on your body. Static electricity may damage your computer and card. This is a quick and easy safety precaution--don't blow it.
4. **Remove the RamFactor from its anti-static bag.**

Do not touch the gold edge connectors.
5. **Insert the RamFactor's gold edge connector in any expansion slot *except* slot 3.**
  - If you have an Enhanced Apple //e and wish to boot from the RamFactor card when a Control-Reset is executed, install the RamFactor in slot 7. If you will be using Pascal 1.3, install the RamFactor in slots 4, 5, or 6. Do not attempt to install the RamFactor card in the auxiliary slot.
  - IIGS users can boot from the RamFactor in any slot (except 3 and the Memory Expansion slot) by accessing the Slots option in the Control Panel Menu and setting the Startup option to the correct slot (described in the IIGS Owner's Manual).
- ◆ **Note:** While you can put the RamFactor into slot 4 or slot 5 of the GS, most users access the mouse and the 3.5" drives (respectively) through these ports.
6. **Replace the computer's top cover.**

#### Installing RamFactor in a Franklin Ace 2000 series Computer:

1. **TURN OFF THE COMPUTER'S POWER SWITCH.**

Never install or remove a card while the computer is on. However, you need to leave the computer plugged in throughout the installation to allow the power supply to discharge static electricity from your body.