# Power Macintosh: Memory Sizing Algorithm (8/95)

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TOPIC -----

I have a brand Power Macintosh 8100/80 computer. I used to have to have a Macintosh Quadra 840AV computer. I have put the RAM from my Quadra into my new Power Macintosh computer. I have 40 MB of RAM (two 16 MB SIMMs and two 4 meg SIMMs), but the computer is stating that he has 72 megs of RAM. Also it sometimes crashes with an Error Type 11. I do not have RAM Doubler software installed. What is going wrong?

DISCUSSION -----

You need to check the installation of your RAM. If you do not install the RAM in the correct pairs, the system will think you have more RAM than you actually do. In this case, you have two 16 MB SIMMs and two 4 meg SIMMs, which would normally give you 48 megs of RAM. However, if you insert these as 16, 4, and 16, 4, the system will think it has 32 + 32 + 8, or 72 MB of RAM total. Improper installation of the RAM can cause various system errors such as you are experiencing.

The Power Macintosh memory sizing algorithm looks at the highest capacity memory the SIMM bank can handle. It then assumes that both SIMMs are the same size. If one is not correctly (equally) sized, then the computer will present you with a system error as soon as your system and application memory usage goes beyond the 8 MB memory that is on the logic board.

Support Information Services


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