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Macintosh Quadra 900 and 950: Layout of SIMM Banks

Revised: 9/17/92
Security: Everyone

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Article Created: 27 August 1992

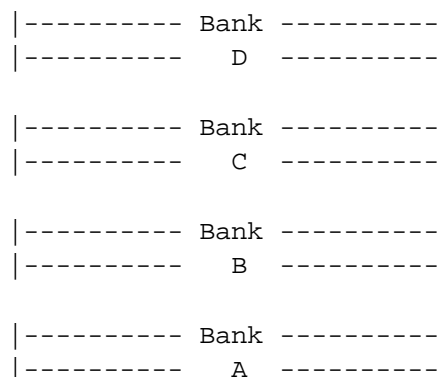
TOPIC -----

This article discusses the layout of the Macintosh Quadra 900 and 950 SIMM banks and provides memory configuration and dynamic RAM (DRAM) information.

DISCUSSION -----

The layout of the DRAM SIMM banks for Macintosh Quadra 900 and 950 differs from other Macintosh models, which are aligned vertically. The Macintosh Quadra 900 and 950 have four SIMM banks that are aligned horizontally with two slots on the left and two slots on the right as shown in this diagram.

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- The Macintosh Quadra 900 and 950 accept standard 1MB or 4MB SIMMs rated at 80 ns or faster. Although acceptable, there is no speed improvement when using RAM rated faster than 80 ns because the memory control unit (MCU) is programmed for 80 ns RAM.
- Each slot in a given bank must be either empty OR fully populated with four SIMMs of the same size and same speed. If a bank is either not empty or not fully populated with SIMMs of the same size, you will hear chimes at startup, indicating a hardware failure.
- Apple's documentation states that all filled banks must use SIMMs of the same speed. You cannot mix RAM SIMMs of different speeds, even between banks.
- Each bank is independent; therefore, you can populate the banks in any order. For example, four 1MB SIMMs in bank B and four 4MB SIMMs in bank D is an acceptable configuration.
- The available memory configurations for the Macintosh Quadra 900 and 950 are 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 48, 52, and 64MB of RAM.

Memory expansion kits are available from Apple. Contact your authorized Apple Service Provider for price and installation information.

Notes

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- When large amounts of DRAM are installed, the memory check at startup is lengthy. There is no software indication that the system is running the memory check.
 - The use of 16MB SIMMs has not been thoroughly tested with these Macintosh computers and, therefore, available memory configurations when using 16MB SIMMs are not included in this article.
 - The use of 256K and 2MB SIMMs is not supported for these Macintosh models.

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Tech Info Library Article Number:10632