Memory Upgrade Installation HP 9000 J Class

HP Documentation

HP 9000 J Class Owner's Guide (A4476-90013)
HP 9000 J280/282/2240 Owner's Guide (A2876-90015)
HP 9000 J Class Workstation Service Handbook (A2876-90040)

Determine System Memory Size

Reboot the system, at the Boot Console Interface prompt (PDC>), type ***ma*** to get the main menu. Then type ***in*** to get the information menu. Then type ***me*** to get the memory information. The memory status table provides the size of the cards installed in each slot and the system memory size.

Determine the PDC Revision

At the Boot Console Interface prompt (PDC>), type ***in*** to get the information menu. Then type ***fv*** to get the current processor dependent code (PDC) revision number.

System Shutdown

Perform an orderly shutdown of the HP-UX operating system. Reference the Owner's Guide for detailed instructions.

Power Down

Turn off the system power after the console indicates that the system has been halted. Disconnect the system power cable and the power cord of any peripheral devices from the ac wall outlets.

Open the Unit

Remove the front bezel by gently pulling the grill forward and lifting up while pressing down on the two buttons on the top front.

Remove the CPU Assembly

Remove the two screws in the center of the CPU Assembly. Release the ejector tabs on the left side, top and bottom of the CPU Assembly. Pull the CPU Assembly straight out and place on a flat surface with an antistatic mat.

Installation Memory

1. Remove the memory sets (DIMMs) currently installed in the carrier. Push down the ejector handle(s) to eject the DIMMs.
2. Organize all the DIMMs into the following four groups: 512MB sets, 256MB sets, 128MB & 64MB sets, and 32MB sets.
3. Install the sets (2 DIMMs) using the following guidelines. Start with the largest size cards first and work down to the smallest size (e.g. 256MB, 128MB, 64/32 MB, 16MB). Install the sets in the lowest numbered available slots to the highest numbered slots (e.g. 0A & 0B, 1A & 1B, 2A & 2B, 3A & 3B, ...).

Install DIMM into a Connector on the Carrier

Open the white ejector lever (press the ejector lever into the down position). Some systems will have a black ejector lever on the other side of the connector. If the black lever is present, press it into the down position. In order to install the DIMM correctly, the notched end (e.g. the side of the card where the card does **not** go straight up from the gold fingers) must be oriented toward the white ejector lever. Insert the DIMM into the connector. Line up the middle of the DIMM (see the semicircle cutout in the middle of the gold fingers) with the middle section of the connector. With the DIMM positioned correctly, **firmly and evenly** press or seat the card into the connector. **Do not "rocker" the DIMM into the connector!** This may damage the DIMM or the connector. When the DIMM is correctly seated, it will "snap" into the connector. At this point, press the ejector lever(s) into the up position.

Verify DIMMs are Seated Correctly

After all the DIMMs have been installed, check to ensure that they are seated evenly and that all the DIMMs are the same height. An incorrectly seated DIMM may stick out above the other.

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System Reassembly

Place the CPU Assembly back into the system unit. Align the top of the CPU Assembly with the guide on the system unit. Be sure to support the CPU Assembly properly while replacing it. Next, align the bottom of the CPU Assembly with the guide on the system unit. With the ejector latches in the open position, slide the CPU Assembly in the system unit as far as it will go.

Press the ejector tabs all the way in and press on the left edge of the processor module sheet metal to ensure that the processor module is completely seated in the connector. Replace the tow screws in the center of the CPU Assembly. Make sure the ejectors are completely depressed to ensure proper connector seating.

Replace the front bezel. Insert the two guide pins on the bottom of the front cover into the guides on the bottom of the system unit. Swing the front cover up, and push it firmly into the workstation housing. The front panel edges automatically align with the workstation housing, and the top latch buttons pop up into position

Reconnect the power cords and any other cables that you disconnected when opening the workstation.

Verify the New System Memory

Power up the peripherals first, then power up the system. The system memory is automatically configured to the system by the software. If there is a problem with the installed memory, then the boot process could be halted, or the system could log warning messages and display hex codes on the LCD on the front of the system and at the bottom of the console.

Verify or diagnose the new system memory. Reboot the system and stop the system at the Boot Console Interface prompt (PDC>). Type *ma* to get the main menu. Then type *in* to get the information menu. Then type *me* to get the memory information. The memory status table provides the size of the cards installed in each slot and the system memory size.

If the system has errors or the memory status table does not reflect the expected configuration then the possible error sources are the DIMMs are not seated properly, the DIMMs are not sequenced correctly, the DIMMs are not paired, or the incorrect value matching of paired DIMMs. If errors exist or the table does not reflect the expected configuration, then repeat the installation procedure but take special care to seat the DIMMs properly and in the correct pair sizes and sequence.