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The Sun Fire™ 6800/4810/4800/3800 systems CPU/Memory board has 32 DIMM sockets, which are divided into four banks of eight slots each. A label on the board lists a three-digit location for each slot. The first, second, and third digits indicate the corresponding CPU processor (0–3), DIMM group in a bank (0 or 1), and data output (0–3).

**DIMM Installation Rules**

1. A bank has eight slots and can contain either eight DIMMs or four DIMMs (alternating with four empty slots).
2. If you are adding a large number of DIMMs, install them as banks of eight DIMMs before installing any remainder as banks of four DIMMs.
3. Install one bank completely on each board before installing the remaining banks on any board.
4. Add DIMMs to the boards that have the most CPU processors. Note that on the remaining boards, you are allowed to have CPU processors without corresponding DIMMs.
5. If you must choose between CPU/Memory boards that have equal numbers of CPU processors, add DIMM banks to the board that has fewer DIMMs.
6. Install DIMMs across from the corresponding CPU.
7. All DIMMs in a bank must have the same capacity. DIMMs of different capacities can be installed in different banks but not in the same bank.
8. DIMMs from different manufacturers are interchangeable in a bank if the DIMMs all have the same capacity and speed.

**Installing DIMMs**

1. Attach a wrist strap and place an antistatic surface next to the system.  
   
   ! Caution – The system and the DIMMs are sensitive to static electricity.

2. Remove the applicable CPU/Memory board and place the CPU/Memory board on an ESD mat.  
   Refer to the Sun Fire 6800/4810/4800/3800 Systems Service Manual.

3. Open the empty DIMM slot by pressing down on the ejector levers at both ends of the connector.  
   The connector will not accept the DIMM unless the levers are in the open position.

4. Align the DIMM with the connector. Note that the slot on one side of the DIMM is longer than the slot on the opposite side.

5. Place your thumbs on the top edge of the DIMM and push the DIMM firmly straight down into its connector. Do not rock the DIMM from side to side.

6. Press down firmly on the entire top edge of the DIMM.  
   When the DIMM is installed correctly, the ejector levers will be in the upright position.

7. Continue installing the remaining DIMMs in the same manner.  
   If you are installing four DIMMs, install them in alternating DIMM slots.

8. Install the CPU/Memory board.  
   Refer to the Sun Fire 6800/4810/4800/3800 Systems Service Manual.

**Removing DIMMs**

1. Attach a wrist strap or foot strap. Connect the ESD jack from the system to your wrist strap or foot strap.

2. Place a grounded ESD mat close to the system.  
   
   ! Caution – The system and the DIMMs are sensitive to static electricity.

3. Remove the applicable CPU/Memory board and place the CPU/Memory board on an ESD mat.  
   Refer to the Sun Fire 6800/4810/4800/3800 Systems Service Manual.

4. Locate the slot for the DIMM you need to replace.

5. Eject the faulty DIMM by pressing down on the ejection levers on both sides of the DIMM connector.

6. Holding the DIMM by its edges, remove it from the slot and place it on an antistatic surface.