



Sun Fire™ High-End and Midrange Systems UltraSPARC® IV CPU/Memory Board Upgrade Requirements

Sun Fire E25K/E20K Systems

Sun Fire 15K/12K Systems

Sun Fire E6900/E4900 Systems

Sun Fire 6800/4800 Systems

CAUTION READ ME FIRST



Failure to follow these procedures will cause your system to not recognize the new CPU/Memory board. Firmware on all boards and assemblies must be at the same level as the new CPU/Memory board.

Note – If sold as a field-replaceable unit (FRU), a CPU/Memory board is for replacement use *only*. FRUs must not be used to upgrade CPU performance in systems. Such usage can violate United States export regulations.

Note – UltraSPARC® IV CPU/Memory boards are not supported in Sun Fire™ 4810/3800 systems. Only earlier versions of CPU/Memory boards are supported in Sun Fire 4810/3800 systems.

Additional Hardware Requirements for Sun Fire 6800/4800 Systems

Sun Fire™ 6800/4800 systems require additional hardware upgrades if you upgrade to UltraSPARC IV CPU/Memory boards:

- **Sun Fire 6800 system:** upgrade all six power supplies (PS0 through PS5) to part number 300-1595-xx. Also install an EMI gasket kit, part number 560-2755-xx in the card cage.
- **Sun Fire 4800 system:** upgrade all three power supplies (PS0 through PS2) to part number 300-1596-xx. Also upgrade the fan trays: FT0 (bottom left) to part number 540-5998-xx, FT1 (top) to part number 540-5997-xx, and FT2 (bottom right) to part number 540-5999-xx.



Caution – The Sun Fire 6800/4800 system might shut down if you do not install the additional upgrades that are required for the UltraSPARC IV CPU/Memory boards.

- ♦ **To determine if the hardware upgrades are already installed:**
 - Use the system controller `showfru` command to see the manufacturing record of FRU part numbers. This command is available with firmware version 5.16.0 and later.

```
schostrname:SC> showfru -r manr
```

- Alternatively, you can find the part numbers on the device labels.

Firmware and OS Minimum Requirements

Note – If your system requires a software upgrade and a firmware upgrade, upgrade the firmware first. Upgrade the software second. Install new CPU/Memory boards only after you have upgraded the firmware and software.

Sun Fire E6900/E4900 systems and upgraded Sun Fire 6800/4800 systems require these versions:

- Firmware level 5.16.0 or subsequent compatible versions.
- Solaris 8 2/04 Operating System or subsequent compatible versions.

Sun Fire E25K/E20K systems and upgraded Sun Fire 15K/12K systems require these versions:

- SMS 1.4.1 or subsequent compatible versions.
- Solaris 8 2/04 Operating System or subsequent compatible versions.

Checking Firmware on Boards and Assemblies

- ♦ **When installing new CPU/Memory boards, use the `showboards` command to determine if the firmware needs to be updated:**

```
schostrname:SC> showboards -p proms
```

If an update is required, use the system controller `flashupdate` command as shown below.

Upgrading Firmware

Upgrade the firmware and real time operating system (RTOS) images only if the image to install is different than the image that is already installed.

Note – Patches can be found at:

<http://sunsolve.sun.com>

Installation information, Release Notes and README files are included in the patch download.

- ♦ **To install the firmware upgrade, use the `flashupdate` command for your specific system.**

- For Sun Fire E6900/E4900 or Sun Fire 6800/4800 systems:

```
schostrname:SC> flashupdate -f URL all rtos
```

- For Sun Fire E25K/E20K or Sun Fire 15K/12K systems:

```
schostrname:SC> flashupdate -f URL -d domain_id
```

For details on using the `flashupdate` command, refer to the system controller manual for your product.

Accessing Sun Documentation

You can view, print, or purchase a broad selection of Sun documentation, including localized versions, at:

<http://www.sun.com/documentation>

Contacting Sun Technical Support

If you have technical questions about this product that are not answered in this document, go to:

<http://www.sun.com/service/contacting>

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