



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

For

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.

Hardware Requirements

- Sun Fire™ 15K/12K systems require a carrier plate upgrade, part number 556-4435-xx.
- Sun Fire 6800/4800 systems require these hardware upgrades:
 - **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 systems might shut down if you do not install the additional upgrades that are required for the UltraSPARC IV+ CPU/Memory boards.

Checking Hardware Upgrades

- ♦ Determine if the hardware upgrades are already installed by using the system controller `showfru` command to see the manufacturing record of FRU part numbers. This command is available with firmware version 5.18.1 and later.

```
schostname: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, first upgrade the firmware. 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 5.19.1 or subsequent compatible versions
 - Solaris 9 9/05 and Solaris 10 3/05 HW1 Operating Systems
- Sun Fire E25K/E20K systems and upgraded Sun Fire 15K/12K systems require these versions:
 - SMS 1.5 or subsequent compatible versions
 - Solaris 9 9/05 and Solaris 10 3/05 HW1 Operating Systems

Note – Refer to <http://sunsolve.sun.com> for the latest patch information.

Checking Firmware on Boards and Assemblies

1. When installing new CPU/Memory boards, use the `showboards` and the `showsc -v` commands to determine if the firmware needs to be updated:

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

2. For Sun Fire E6900/E4900 or Sun Fire 6800/4800 systems, use the following command to determine if the real time operating system (RTOS) needs updating:

```
mainsc:SC> showsc -v
```

If updates are required, use the system controller `flashupdate` command as shown below.

Upgrading Firmware in Sun Fire E6900/E4900 or Sun Fire 6800/4800 Systems

1. Connect to the spare system controller and install the firmware upgrade by using the `flashupdate` command for your system.

```
sparesc:sc> flashupdate -f URL scapp rtos
```

2. Repeat the firmware installation procedure for the main system controller.

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

Upgrading Firmware in Sun Fire E25K/E20K or Sun Fire 15K/12K Systems

1. Log in to the main system controller and install the system board firmware upgrade by using the `flashupdate` command for your system:

```
sc0:sms-user:> flashupdate -f /opt/SUNWSMS/hostobjs/sgcpu.flash SB#
```

Replace "SB#" with the board number of the newly inserted UltraSPARC IV+ CPU/Memory boards (e.g., SB3).

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

2. Repeat this step for each new CPU/Memory board.

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