

Sun Fire[™] High-end and Midrange Systems UltraSPARC[®] IV+ 1.95 GHz 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 – Your system will not recognize the new CPU/Memory board unless you follow these procedures.

If a CPU/Memory board is sold as a field-replaceable unit (FRU), it must be used ONLY for replacement use. FRUs must not be used to upgrade CPU performance in systems. Such usage can violate United States export regulations. UltraSPARC® IV+ CPU/Memory boards are not supported in Sun Fire 4810/3800 systems.

Sun Fire E25K/E20 and Sun Fire 15K/12K Systems Hardware Requirements

Sun Fire E25K/E20K and Sun Fire 15K/12K systems require the following upgrades:

- Sun Fire E25K/E20K and Sun Fire 15K/12K systems require power shelf (part number 371-0919).
- Sun Fire E25K/E20K and Sun Fire 15K/12K systems require power supply (part number 300-1813).
- Sun Fire 15K/12K systems require the carrier plate upgrade kit.

Sun Fire E6900 and Sun Fire 6800 Systems Hardware Requirements

Sun Fire E6900 and Sun Fire 6800 systems require the Sun Fire E6900/6800 UltraSPARC IV+ Upgrade Kit.

- E6900 upgrade kit: 594-3419 (This kit includes the 300-1836 power supply. It is used for both the 1.8 GHz and 1.95 GHz CPU upgrades.)
- If the system needs to support two domains on one partition, you must install the repeater board upgrade kit, part number 594-3776.

Sun Fire E4900 and Sun Fire 4800 Systems Hardware Requirements

Sun Fire E4900 and Sun Fire 4800 systems require the Sun Fire E4900/4800 UltraSPARC IV/IV+ Upgrade Kit, PN 594-3418. The kit includes:

- EMI gasket kit (to be installed in the card cage)
- Three new power supplies (PS0 through PS2)
- Three new fan trays: FT0 (bottom left), FT1 (top), and FT2 (bottom right).



Caution – The Sun Fire E4900 and Sun Fire 4800 systems might shut down if you do not install these upgrades for the UltraSPARC IV+ CPU/Memory boards.

Verifying the Hardware Upgrades

♦ For Sun Fire E4900 and Sun Fire 6800/4800 systems, determine if the hardware upgrades are already installed. Use the system controller showfru command to see the manufacturing record of the FRU part numbers.

schostname:SC> showfru -r manr

This command is available with firmware version 5.18.1 and later. Alternatively, you can find the part numbers on the device label.

Firmware, Patches, and OS Minimum Requirements

Note - Firmware on all boards and assemblies must be at the same level as the new CPU/Memory board.

Install new CPU/Memory boards only after you have upgraded the firmware and software.

- Sun Fire E25K/E20K and Sun Fire 15K/12K systems require SMS 1.6 patches as well as these versions:
 - System Management Services (SMS) 1.6 or subsequent compatible versions
 - Solaris 9 9/05, Solaris 10 3/05 HW1 or Solaris 10 1/06 Operating Systems
- Sun Fire E6900/E4900 and Sun Fire 6800/4800 systems require these versions:
 - Firmware level 5.20.4 or subsequent compatible versions
 - Solaris 9 9/05, Solaris 10 3/05 HW1, or Solaris 10 1/06 Operating Systems

For latest patch information go to http://sunsolve.sun.com. Installation information and README files are included in the patch download.

Checking Firmware on Boards and Assemblies in Sun Fire E25K/E20K and Sun Fire 15K/12K Systems

1. Before installing new CPU/Memory boards, use the flashupdate -d command to determine if the firmware needs to be updated:

mainsc:SC> flashupdate -d <domain name> -f <firmware.path> -n

2. Use the following command to determine if the SMS needs to be updated:

```
mainsc:SC> /opt/SUNWSMS/bin/smsversion
```

Upgrading Firmware in Sun Fire E25K/E20K and 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. For example, 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.

Checking Firmware on Boards and Assemblies in Sun Fire E6900/E4900 and Sun Fire 6800/4800 Systems

1. Before installing new CPU/Memory boards, use the following command to determine if the firmware needs to be updated:

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

2. Use the following command to determine if the real time operating system (RTOS) needs to be updated:

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

If updates are required, use the system controller flashupdate command as shown in the upgrading firmware section that follows.

Upgrading Firmware in Sun Fire E6900/E4900 and 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
```

Accessing Sun Documentation

You can view, print, or purchase a broad selection of Sun documentation, including localized versions, at: http://www.sun.com/documentation

Third-Party Web Sites

Sun is not responsible for the availability of third-party web sites mentioned in this document. Sun does not endorse and is not responsible or liable for any content, advertising, products, or other materials that are available on or through such sites or resources. Sun will not be responsible or liable for any actual or alleged damage or loss caused by or in connection with the use of or reliance on any such content, goods, or services that are available on or through such sites or resources.

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

Sun Welcomes Your Comments

Sun is interested in improving its documentation and welcomes your comments and suggestions. You can submit your comments by going to:

http://www.sun.com/hwdocs/feedback

Please include the title and part number of your document with your feedback:

Sun Fire High-End and Midrange Systems UltraSPARC IV+ 1.95 GHz CPU/Memory Board Upgrade Requirements, part number 819-7774-10

Copyright 2007 Sun Microsystems, Inc. All rights reserved. Use is subject to license terms. Third-party software, including font technology, is copyrighted and licensed from Sun suppliers. Portions may be derived from Berkeley BSD systems, licensed from U. of CA. Sun, Sun Microsystems, the Sun logo, Java, Sun Fire, and Solaris are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and in other countries. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. in the U.S. and in other countries. U.S. Government Rights—Commercial use. Government users are subject to the Sun Microsystems, Inc. standard license agreement and applicable provisions of the FAR and its supplements.

Copyright 2007 Sun Microsystems, Inc. Tous droits réservés. Distribué par des licences qui en restreignent l'utilisation. Tout logiciel tiers, sa technologie relative aux polices de caractères comprise, est protégé par un copyright et licencié par des fournisseurs de Sun. Des parties de ce produit peuvent dériver des systèmes Berkeley BSD licenciés par l'Université de Californie. Sun, Sun Microsystems, le logo Sun, Java, Sun Fire, et Solaris sont des marques de fabrique ou des marques déposées de Sun Microsystems, Inc. aux États-Unis et dans d'autres pays. Toutes les marques SPARC sont utilisées sous licence et sont des marques de fabrique ou des marques déposées de SPARC International, Inc. aux États-Unis et dans d'autres pays.



Sun Microsystems, Inc. www.sun.com