

# Sun Fire™ E2900/V1280 UltraSPARC™ IV+ (1.95 GHz) Systems CPU/Memory Board Upgrade Requirements

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**Caution** – Failure to follow these procedures will cause your system to be unable to recognize the new CPU/Memory board.

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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.

## CPU/Memory Board Rules

A CPU/Memory board might fail to function if the following rules are violated:

- The firmware on all boards (and other assemblies) in the system must be at the same level.  
If different versions of boards are used in a system, the firmware level for all boards must be equal to (or greater than) the highest *MINIMUM* required by any board or assembly in the system.
- Any required firmware, and software upgrades must be installed *before* you install the new board or assembly.

## Sun Fire E2900 Hardware Requirements

- E2900 UltraSPARC IV+ upgrade kit, part number 594-3416. (This kit is for both 1.8 GHz and 1.95 GHz)
- The air filter must be removed from the left front door only.

See “Periodic Maintenance,” in the *Sun Fire E2900 System Service Manual*, 817-4054, which is available at this URL: <http://www.sun.com/documentation/>

## Sun Fire V1280 Hardware Requirements

- The air filter must be removed from the left front door only.

See “Periodic Maintenance,” in the *Sun Fire V1280/Netra 1280 Systems Service Manual*, 817-0510, which is available at this URL: <http://www.sun.com/documentation/>

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## Firmware and Software Requirements

The 1.95 GHz CPU/Memory boards require:

- The E2900 and V1280 system controllers to have a minimum firmware level of System Controller Application (SCApp) 5.20.4 or subsequent compatible versions.
- CPU/Memory board software requires Solaris™ 9 09/05 OS, Solaris 10 03/05 HW1 OS, Solaris 10 1/06 OS, or subsequent compatible versions.

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

### Checking the Firmware

Do not install a new CPU/Memory board if the firmware in the system does not meet the minimum requirements of the new board.

- ◆ **To determine the firmware level, type:**

```
lom> showboards -p proms
```

Refer to the system controller command reference manual for your system for information about software commands.

### Upgrading the Firmware

You can read about the latest firmware and software requirements, and download any required patches at: <http://sunsolve.sun.com>

If your system requires an upgrade of firmware, software, or both, install the upgrades, and any required patches in this order:

1. **Upgrade the firmware first.**
2. **Upgrade the software.**
3. **Install the CPU/Memory board(s) last.**

To upgrade the firmware on all system boards (including CPU/Memory boards and I/O assemblies), use the `flashupdate` command:

```
lom> flashupdate -f <URL> scapp rtos  
lom> flashupdate -f <URL> systemboards
```

Refer to your System Controller Command Reference Manual, for the correct syntax to use.

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