

Sun Fire™ 6800/4810/4800/3800 Systems Software Release Notes



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Software Release Notes

This document contains information and late-breaking news for software on Sun Fire 6800/4810/4800/3800 systems. This document contains the following sections:

- General Information
 - Supported Veritas Products
 - Firmware On Replacement Boards and Assemblies
 - Firmware Upgrade Changes
 - Log Message Changes
- System Controller Command Changes
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 - Removed Command Options
- Known Sun Fire 6800/4810/4800/3800 System Limitations

General Information

Supported Veritas Products

The following Veritas system Software products are supported on Sun Fire 6800/4810/4800/3800 systems.

- VxVM3.1.1 (w/ Patch-ID# 111118-02)
- VxVM 3.2
- VxFS 3.4

Note – VxVM3.1.1 does not support MPxIO. VxVM3.2 supports MPxIO.

Firmware On Replacement Boards and Assemblies

After installing a board or assembly use the `showboards -p proms` command to determine if the firmware needs to be updated. If an update is required use either the system controller `flashupdate -f` or `flashupdate -c` command. Refer to the *Sun Fire 6800/4810/4800/3800 System Controller Command Reference Manual* for correct usage of the `flashupdate` command.

Note – Do not use the `flashupdate -u` command as shown in onscreen messages. Using `flashupdate -u` could result in incompatibility issues that require a reboot of the system controller and domains.

A list of the most current patches for bug fixes and system firmware upgrade may be found on SunSolve Online. SunSolve provides recommended and security patches, including Year 2000 patches, to all users. Other product and OS patches are available to SunSpectrum Contract customers. Contact your local Sun Customer Care Center or your service provider if you need assistance in accessing the list of current patches and system firmware upgrades.

Firmware Upgrade Changes

When running `scapp 5.12.5` or higher and `RTOS 18` or higher, the firmware upgrade procedure is slightly different. The `scapp` and `RTOS` images are upgraded only when the image to install is different than the image that is already installed. The firmware is upgraded early in the boot process.

- **Type the following `flashupdate` command to upgrade `scapp`, `RTOS` and all of the system boards (CPU/IO):**

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

Log Message Changes

The system controller log messages now use the term `platform` instead of `chassis`. For example, `Platform.SC` instead of `Chassis.SC`.

```
Jul 09 10:32:10 md6-sc0 Platform.SC: Boot: scapp 5.12.5, RTOS 18
```

System Controller Command Changes

Modified Command Options

The platform loghost and domain loghost facility are now set and displayed separately. This affects `setupplatform`, `showplatform`, `setupdomain`, `showdomain`.

The `showboards` command now has a verbose mode (`-v`). The `-p` option now provides version information, CPU type and speed, and clock status.

The old output format of the `dumpconfig` command is incompatible with the new firmware version.

Caution – Older output files from `dumpconfig` are no longer compatible with the new firmware. Run `dumpconfig` after upgrading the `scapp` to create output files compatible with the current configuration. Compatible output files are required so that if the main system controller fails the platform and domain configurations can be restored.

New Commands

`showresetstate` Shows CPU state after a reset

New Command Options/Parameters

`showboards -d domain` Shows boards assigned to a domain (platform only).

`showboards -p board` Shows the board status.

`showboards -p clock` Shows the system clock status.

`showboards -p cpu` Shows the CPU type, speed and Ecache size.

`showboards -p io` Shows I/O information.

`showboards -p memory` Shows memory information for each board.

<code>showboards -p power</code>	Shows power grid information.
<code>showboards -p version</code>	Shows version information.
<code>showboards -v</code>	Shows verbose mode. Output is modified.
<code>showcomponents</code>	Shows all the components.
<code>showcomponents board</code>	Shows multiple components.
<code>showcomponents -d domain</code>	Shows components assigned to domain.
<code>setdefaults -p platform</code>	Sets the platform configuration to default. Destructive command , use with caution and care.
<code>showdate -d domain</code>	Shows a domain date.
<code>showplatform -p frame</code>	Shows FrameManager information.

Removed Commands

`reset` Removed from platform shell.

`showframe` Integrated into `showplatform`.

Removed Command Options

`setdefaults -a`

Note – Refer to the *Sun Fire 6800/4810/4800/3800 System Controller Command Reference Manual* (Part Number 805-7372-13) for more details on new and changed system controller commands.

Known Sun Fire 6800/4810/4800/3800 System Limitations

testboard Sometimes Fails When setkeyswitch is Running in Domain A and B (bugid 4384641)

Workaround: Do not run `testboard` when a `setkeyswitch` operation is in progress.

scapp Does Not Detect AC Failures (bugid 4413905)

If the AC input to a power supply fails and comes back within 19 seconds, `scapp` believes V1 and V2 have been running continuously with no interruption. The power supply was designed to have enough hold-up charge to keep the microcontroller active for at least 19 seconds, so `scapp` does not register a drop in power until after 19 seconds. If the AC outage lasts for more than 19 seconds, the microcontroller dies completely and `scapp` logs messages complaining about broken environmental sensors.

Workaround: There are three known workarounds:

- At the platform shell, type `poweroff psX;poweron psX`
- Physically remove and reinsert the power supply
- Reboot the system controller

Domain Pauses With Multiple FRU Errors (bugid 4433404)

Workaround: Isolate to a single FRU whenever possible. If this is not possible then issue a FRU replacement list with most probable FRU first. `setkeyswitch off` (as the onscreen messages indicates) then `setkeyswitch on`.

Bad CPU Not Caught By POST (bugid 4448826)

Workaround: Disable the bad/failed CPU to isolate the failing component using the `disablecomponent`. Turn the keyswitch on with `setkeyswitch on` to reboot without the failed CPU. Refer to the *Sun Fire 6800/4810/4800/3800 System Controller Command Reference Manual* for correct usage of the `disablecomponent` command.

System Controller Overwhelmed With Error Data, Preventing Fault Status Determination (bugid 4453985)

Workaround: Check the environmental factors affecting a board *before* accessing a board.

`setkeyswitch` Causes LPOST Stop After CPU Board Test (bugid 4454003)

Workaround: Detect the fault and use `disablecomponent` to blacklist the board so the domain can recover. Refer to the *Sun Fire 6800/4810/4800/3800 System Controller Command Reference Manual* for correct usage of the `disablecomponent` command.

System Controller Hangs After Automatic `setkeyswitch off` (bugid 4454599)

Manual reset of the system controller has no effect.

Workaround: Connect to each active domain via a network connection, telnet, rlogin, etc and shut each domain down if possible. Power off the Sun Fire system and power it on again.

No LED Fault Indicator On System Board After The Board Fails POST (bugid 4454623)

Workaround: Use `showlogs` or `showboards` (from the platform shell) to show errors and test status of faulty system board.

`scapp` Can Report Incorrect CPU For An ECC Error (bugid 4477131)

Workaround: ECC error messages can not to be trusted to report the correct CPU. Decode the agent id (AID) in the ECC error message to obtain the actual destination CPU.

`showb -d domain` Shows Boards That Are Not Assigned To Domain (bugid 4488255)

Workaround: Use `showboards` command to know which boards are assigned to the domain. Refer to the *Sun Fire 6800/4810/4800/3800 System Controller Command Reference Manual* for correct usage of the `showboards` command.

`flashupdate` May Not update `scapp` and `rtos` (bugid 4491986)

Workaround: Verify system controller network settings are correct. Verify that the http or ftp server is functioning correctly. Retry the `flashupdate` command until it succeeds.

Software Licensing Problems With Hostid And MAC (bugid 4492051)

The current scheme of assigning the hostid and MAC address based on which physical domain is in use (A, B, and so forth) can prevent host licensed software from running. In situations where a hardware failure would require changing domains, host licensed software will refuse to start.

Workaround: Contact your service provider for assistance.

Cannot Change SC_POST Diag-level From Min To Max Using Menu Function (bugid 4494784)

Workaround: Change diag levels of SCPOST using `setupplatform` command from system controller platform shell. Refer to the *Sun Fire 6800/4810/4800/3800 System Controller Command Reference Manual* for correct usage of the `setupplatform` command.

`showboards -v` Shows Incorrect Failover Status Signals When Boards Are Off (bugid 4500126)

Workaround: Boards should be powered on to know the "SCC1 signal" and "Failover" status.

SYSTEM ERROR On Domain B While Performing Parallel `setkeyswitch on` In A Single Partition (bugid 4500966)

Workaround: Disable the failed CPU with the `disablecomponent` command. Turn the domain keyswitch off with `setkeyswitch off` and then turn it on with `setkeyswitch on`. Refer to the *Sun Fire 6800/4810/4800/3800 System Controller Command Reference Manual* for correct usage of the `disablecomponent` command.

Single IO Assembly Failure Causes Boot Failure (bugid 4502247)

The IO assemblies are not capable of being tested in isolation. Because of this, the failures that become visible when IO POST runs will stop the whole boot process because they pause the domain in hardware.

Workaround: Remove the failed I/O board from the domain with `deleteboard`. Turn the keyswitch on with `setkeyswitch on` to reboot without the failed board. Refer to the *Sun Fire 6800/4810/4800/3800 System Controller Command Reference Manual* for correct usage of the `deleteboard` command.

`restoreconfig` Using Incompatible Firmware Hangs The System Controller (bugid 4504322)

Workaround: Do not try to restore (using `restoreconfig`) the configuration file of the current firmware on a system which has older firmware. This will hang the system. Restore the configuration manually from the system controller platform and domain shells as well as OBP.