

BOOT PROM FLASH UPDATE

V880

Sun Fire V480 and V880 With 900 MHz CPUs May Panic or "Red State" Due to Incorrect L2 SRAM Parameter Settings in Firmware

Doc ID 55480

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V880 installation process. You must have time to reboot the server for the flash update to take place. Time for installation is about 30 minutes.

1. You must log in as root

2. From the sun patch site. Download the Boot prom patch and save to /h/PUBLIC

<http://sunsolve.sun.com/pub-cgi/findPatch.pl?patchId=112186&rev=08>

File will be a .zip file.

To unzip do the following

3. #cd /h/PUBLIC

4. #unzip 112186-09.zip

View README and install patch.

5. #cd 112186-09

#more unix.flash-update.README

Turn off security mode setting in order to install the firmware patch

You will receive this error if you do not.

**** ERROR: system security set: system** firmware was not modified

6. #eeprom security-mode=none

Now once you understand the readme install the patch. System will reboot immediately after installation is complete.

7. # ./unix.flash-update.SunFire880.sh

Flash Update 2.4: Program and system initialization in progress...

Current System Flash PROM Revision:

OBP 4.5.12 2002/03/27 13:59

Available System Flash PROM Revision:

OBP 4.10.7 2003/06/11 07:04

NOTE: The system will be rebooted (reset) after the firmware has been updated.

However, if an error occurs then the system will NOT be rebooted.

Do you wish to update the firmware in the system Flash PROM? yes/no : **yes**

Erasing the top half of the Flash PROM.
Programming OBP into the top half of the Flash PROM.
Verifying OBP in the top half of the Flash PROM.

Erasing the bottom half of the Flash PROM.
Programming OBP into the bottom half of Flash PROM.
Verifying OBP in the bottom half of the Flash PROM.

Erasing the top half of the Flash PROM.
Programming POST into the top half of Flash PROM.
Verifying POST in the top half of the Flash PROM.

The system's Flash PROM firmware has been updated.

Please wait while the system is rebooted...

Shutdown started. Mon Jul 14 17:58:01 GMT 2003

Changing to init state 6 - please wait
Broadcast Message from root (pts/6) on archer Mon Jul 14 17:58:01...
THE SYSTEM archer IS BEING SHUT DOWN NOW !!!
Log off now or risk your files being damaged

*When system is back online log in and run the following command to verify installation.
Specifically verify the PROM section.
System PROM revisions:

OBP 4.10.7 2003/06/11 07:04

8. #/usr/platform/sun4u/sbin/prtdiag -v

System Configuration: Sun Microsystems sun4u Sun Fire 880
System clock frequency: 150 MHz
Memory size: 8192 Megabytes

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=====
===== CPUs
=====

| Run | E\$ | CPU | CPU |
|-----|-----|-----|---------------|
| Brd | CPU | MHz | MB Impl. Mask |

```

-----
A 0 900 8.0 US-III+ 2.2
B 1 900 8.0 US-III+ 2.2
A 2 900 8.0 US-III+ 2.2
B 3 900 8.0 US-III+ 2.2

```

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===== Memory Configuration
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```

| MC Brd ID | Bank num | Logical Bank size | Logical Bank Status | Logical Bank Status | DIMM Size | Interleave Factor | Interleaved with |
|--------------|-------------|----------------------|------------------------|------------------------|--------------|----------------------|---------------------|
| A 0 | 0 | 512MB | no_status | | 256MB | 8-way | 0 |
| A 0 | 1 | 512MB | no_status | | 256MB | 8-way | 0 |
| A 0 | 2 | 512MB | no_status | | 256MB | 8-way | 0 |
| A 0 | 3 | 512MB | no_status | | 256MB | 8-way | 0 |
| B 1 | 0 | 512MB | no_status | | 256MB | 8-way | 1 |
| B 1 | 1 | 512MB | no_status | | 256MB | 8-way | 1 |
| B 1 | 2 | 512MB | no_status | | 256MB | 8-way | 1 |
| B 1 | 3 | 512MB | no_status | | 256MB | 8-way | 1 |
| A 2 | 0 | 512MB | no_status | | 256MB | 8-way | 0 |
| A 2 | 1 | 512MB | no_status | | 256MB | 8-way | 0 |
| A 2 | 2 | 512MB | no_status | | 256MB | 8-way | 0 |
| A 2 | 3 | 512MB | no_status | | 256MB | 8-way | 0 |
| B 3 | 0 | 512MB | no_status | | 256MB | 8-way | 1 |
| B 3 | 1 | 512MB | no_status | | 256MB | 8-way | 1 |
| B 3 | 2 | 512MB | no_status | | 256MB | 8-way | 1 |
| B 3 | 3 | 512MB | no_status | | 256MB | 8-way | 1 |

```

===== IO Cards =====

```

| Brd | Type | IO Port ID | Bus Side | Max Bus Slot | Bus Freq MHz | Bus Dev, Freq | Func State | Name | Model |
|-----|------|------------|----------|--------------|--------------|---------------|------------|---------------------------------|-------------------------|
| I/O | PCI | 8 | B | 3 | 33 | 33 2,0 | ok | pci-pci8086,b154.0/pci108e,1000 | PCI-BRIDGE |
| I/O | PCI | 8 | B | 3 | 33 | 33 0,0 | ok | pci108e,1000-pci108e,1000.1 | device on pci-bridge |
| I/O | PCI | 8 | B | 3 | 33 | 33 0,1 | ok | SUNW,qfe-pci108e,1001 | SUNW,pci-qfe/pci-bridg+ |
| I/O | PCI | 8 | B | 3 | 33 | 33 1,0 | ok | pci108e,1000-pci108e,1000.1 | device on pci-bridge |
| I/O | PCI | 8 | B | 3 | 33 | 33 1,1 | ok | SUNW,qfe-pci108e,1001 | SUNW,pci-qfe/pci-bridg+ |

```

I/O PCI 8 B 3 33 33 2,0 ok pci108e,1000-pci108e,1000.1 device on pci-
bridge
I/O PCI 8 B 3 33 33 2,1 ok SUNW,qfe-pci108e,1001 SUNW,pci-
qfe/pci-bridg+
I/O PCI 8 B 3 33 33 3,0 ok pci108e,1000-pci108e,1000.1 device on pci-
bridge
I/O PCI 8 B 3 33 33 3,1 ok SUNW,qfe-pci108e,1001 SUNW,pci-
qfe/pci-bridg+
I/O PCI 8 B 1 33 33 4,0 ok SUNW,m64B SUNW,370-4362
I/O PCI 9 A 7 66 66 2,0 ok pci-pci8086,b154.0/SUNW,qlc (scs+ PCI-
BRIDGE
I/O PCI 9 A 7 66 66 4,0 ok SUNW,qlc-pci1077,2200.1077.4083.+ device on
pci-bridge
I/O PCI 9 A 7 66 66 5,0 ok SUNW,qlc-pci1077,2200.1077.4083.+ device on
pci-bridge

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No failures found in System

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===== Environmental Status

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System Temperatures (Celsius):

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Device      Temperature  Status
-----
CPU0        66           OK
CPU1        71           OK
CPU2        62           OK
CPU3        62           OK

```

General system failure

Front Status Panel:

Keyswitch position: NORMAL

System LED Status:

```

GEN FAULT      REMOVE
[OFF]          [OFF]

```

```

DISK FAULT     POWER FAULT
[OFF]          [OFF]

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```

LEFT THERMAL FAULT  RIGHT THERMAL FAULT
[OFF]               [OFF]

```

LEFT DOOR RIGHT DOOR
 [OFF] [OFF]

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Disk Status:

| | Presence | Fault LED | Remove LED |
|---------|-----------|---|------------|
| DISK 0: | [PRESENT] | [OFF] | [OFF] |
| DISK 1: | [PRESENT] | [OFF] | [OFF] |
| DISK 2: | [PRESENT] | [OFF] | [OFF] |
| DISK 3: | [PRESENT] | [OFF] | [OFF] |
| DISK 4: | [PRESENT] | [OFF] | [OFF] |
| DISK 5: | [PRESENT] | [OFF] | [OFF] |
| DISK 6: | [PRESENT] | picl_get_propval_by_name for fault led_state failed | |

General system failure

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Fan Bank :

| Bank | Speed (RPMS) | Status | Fan State |
|--------------------|-------------------|------------|-----------|
| CPU0_PRIM_FAN | 2127 | [ENABLED] | OK |
| CPU1_PRIM_FAN | 2205 | [ENABLED] | OK |
| CPU0_SEC_FAN | 0 | [DISABLED] | OK |
| CPU1_SEC_FAN | 0 | [DISABLED] | OK |
| IO0_PRIM_FAN | 3896 | [ENABLED] | OK |
| IO1_PRIM_FAN | 3797 | [ENABLED] | OK |
| IO0_SEC_FAN | 0 | [DISABLED] | OK |
| IO1_SEC_FAN | 0 | [DISABLED] | OK |
| IO_BRIDGE_PRIM_FAN | 3370 | [ENABLED] | OK |
| IO_BRIDGE_SEC_FAN | 0 | [DISABLED] | OK |

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Power Supplies:

| Supply | Status | Fan Fail | Temp Fail | CS Fail | 3.3V | 5V | 12V | 48V |
|--------|--------|----------|-----------|---------|------|----|-----|-----|
| PS0 | GOOD | | | 6 4 | 2 | 3 | | |
| PS1 | GOOD | | | 6 4 | 2 | 3 | | |
| PS2 | GOOD | | | 6 4 | 2 | 3 | | |

===== HW Revisions
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System PROM revisions:

OBP 4.10.7 2003/06/11 07:04

IO ASIC revisions:

| Brd | Model | Port | ID | Status | Version |
|------|---------|------|----|--------|---------|
| IB-1 | unknown | 8 | ok | 4 | |
| IB-1 | unknown | 9 | ok | 4 | |

Now you need to set the security mode back to command.

10. # eeprom security-mode=command

Changing PROM password:

New password:

Retype new password:

Procedure complete.

END