Sun Fire™ V100 Server Product Notes

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Introduction

This document provides information that became available after the *Sun Fire™ V100 Server User's Guide* went to print.

The document contains the following sections:

Available Online Documentation

Online documentation is available at the following URL:

`http://www.sun.com/products-n-solutions/hardware/docs`

Check this site periodically for the latest versions of the product documentation.

System Software Requirements

The Sun Fire V100 server requires the Solaris 8 (2/02) Operating Environment or later. The server is supplied with this software preinstalled.

Reinstalling the Solaris Operating Environment

The earliest version of the Solaris operating environment supported on the Sun Fire V100 server is Solaris 8 (2/02).

To reinstall the Solaris operating environment onto a Sun Fire V100 server, refer to the *Solaris Installation Guide* (806-0955-10) and the *Solaris Advanced Installation Guide* (806-0957-10).

Using the Solaris Network Cache and Accelerator (SNCA)

The Solaris Network Cache and Accelerator (SNCA) is a caching server which provides improved web performance to the Solaris Operating Environment. It is available on Solaris 8 (07/01) or later.

The steps below tell you how to enable SNCA to work with iPlanet Web Server.

Note – Ensure you have the required NCA-specific software patches installed on the server before you continue with this procedure.

1. **In the Solaris operating environment, edit the configuration interface file `/etc/nca/nca.if` and add * to the first non-comment line.**

   This enables SNCA for all network interfaces.

2. **Make the following changes to the `/etc/nca/ncakmod.conf` file:**
   - set the `status` field to **`enabled`**
   - set the `ncad_status` field to **`enabled`**

3. **Make the following change to the `/etc/nca/ncalogd.conf` file:**
   - set the `status` field to **`enabled`**

4. **Reboot the server.**

   The changes you have just made will not take effect until the server is rebooted.

5. **In the iPlanet Web Server `server.xml` file, ensure the listen socket on port 80 includes `family="nca"`, as shown below:**

   ```
   <LS id="ls1" ip="0.0.0.0" port="80" family="nca" security="off"
   acceptorthreads="1">
   ```

   The server must be listening on port 80 for this to work.

6. **Restart the server.**

   The changes you have just made will not take effect until the server is rebooted.

   For more information, go to the URL below.
   - `http://docs.iplanet.com/docs/manuals/enterprise/50/tuning/contents.htm`

Front Bezel

There is a blank nameplate built into the bezel, just below the *Sun Fire V100* badge. This allows you to easily attach a unique identifier to the server.

Precautions for Using the System Configuration Card

The Sun Fire V100 server contains a memory card (located on the back panel) called the system configuration card. This card contains the system's MAC address, serial number, and other configuration settings. It is designed to be removable so that, if you ever need to replace an entire server, you can transfer the host ID and configuration data onto the new server. This makes the replacement of the server transparent to your network.

Caution – Never remove the system configuration card when the server is booting or running Solaris. Power the server off or down to standby mode before removing or inserting the system configuration card.

Caution – Do not handle the system configuration card unless you need to transfer it to another system. If you need to handle it for this reason, avoid contact with the gold terminals on the underside of the card.

For information about transferring the system configuration card from one server to another, refer to the *Sun Fire V100 Server User's Guide* (816-2756-10).

Open Issues

The following sections cover some open issues with the Sun Fire V100 server.

64 Bit Support

When installing a system, ensure that the selected install option supports the 64 bit kernel.

Note – The install option that takes up the least disk space, labelled "Core System Support", supports 32 bit operation only and is not compatible with the Sun Fire V100 server.

Sending Break During Boot Process Can Result In Failure To See Disk On Reset

If a break is sent to the system console while the system is booting, there is a small chance of a subsequent failure to detect the boot disk. The prom may report:

```
Boot device: disk  File and args:
Bad checksum in disk label
Can’t open disk label package
Evaluating: boot

Can’t open boot device
```

To recover, power the system off for 1 minute and then power it back on.

No Auto Power-On When Power is Removed and Restored Within 10 Seconds

If you disconnect the server from its power source while it is powered on, and then reconnect it within 10 seconds of the disconnection, the server automatically attempts to power on. However, it does not reinitialize successfully and hangs after giving the following console output:

```
LOMlite starting up.

CPU type: H8/3437S, mode 3
Ram-test: 2048 bytes OK
Initialising i2c bus: OK
Searching for EEPROMs: 50(cfg)
I2c eeprom @50: OK
i2c bus speed code 01... OK
Probing for lm80s: none
Probing for lm75s: 48
Initialising lm75 @48: OK
System functions: PSUs fans breakers rails gpio temps host CLI ebus
clock
Unexpected reset

LOMlite console
lom>
LOM event: +0h0m0s LOM FAULT: unexpected reset
lom>
LOM event: +0h0m0s host power on
```

If your system hangs when you have disconnected power and then restored it within 10 seconds of the disconnection, do either of the following:

- Type a carriage return and then type the LOM escape sequence (a hash character, followed by a dot: #.). At the LOM prompt, type `poweroff`. At the next LOM prompt, type `poweron`. The system will power on.
- Hold the rocker switch in the OFF position until the console reports the time-stamped `host power off` LOM event, then put the rocker switch into the ON position. The system will then power on.

If you have the NVRAM `diag-switch?` parameter set to `true` (by default, it is set to `false` and the console output is as shown above), the system will provide additional, Open Boot PROM output during the boot process. In this case, if you restore power within 10 seconds of removing it, the system hangs after reporting the following message:

```
Probing/pci@1f,0 Device a usb
```

To restore power, use either of the two methods described above.

Note – Any interruption and subsequent restoration of mains power within 10 seconds could cause this fault to occur.

Optional Components

There is an error on page 4 of the Sun Fire V100 Server User's Guide. The part number for the 512-Mbyte DIMM is incorrectly given as X7084A. The correct part number is X7092A.

Hardware Configurations

This section contains additional information to that contained in the table on page 108 of the *Sun Fire V100 Server User's Guide* (816-2756-10). The table below gives the configuration information for servers containing the 550 MHz and 650 MHz processor.

Processor	RAM	Hard Disk Drive	Sun Part Number
550 MHz	256 MB (1*256 MB)	1*40 GB (7200 rpm)	600-7995-xx
550 MHz	512 MB (2*256 MB)	1*40 GB (7200 rpm)	600-7996-xx
650 MHz	1 GB (4*256 MB)	2*40 GB (7200 rpm)	600-7997-xx
650 MHz	2 GB (4*512 MB)	2*40 GB (7200 rpm)	600-7998-xx

Operating Power Statistics

This section contains additional information to that given in the table on page 117 of the *Sun Fire V100 Server User's Guide* (816-2756-10). The BTU / hr figure for servers containing the 550 MHz and 650 MHz processor is given below.

- 500 / 550 / 650 MHz processor: 148 (min), 280 (max).