



Sun Blade™ X6440 Server Module Product Notes

Version 2.0

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Sun Blade X6440 Server Module Product Notes

This document contains late-breaking information and issues for the Sun Blade™ X6440 server module.

The following is covered in these product notes:

- [“General Information” on page 2](#)
- [“Sun Blade X6440 Server Module Tools & Drivers DVD” on page 4](#)
- [“Latest Firmware Updates” on page 4](#)
- [“Newly Supported Features” on page 5](#)
- [“Hardware and BIOS Issues” on page 6](#)
- [“Sun Installation Assistant Issues” on page 9](#)
- [“Integrated Lights Out Manager Issues” on page 13](#)
- [“Diagnostics Issues” on page 18](#)
- [“Operating System Issues” on page 19](#)
 - [“Solaris Issues” on page 20](#)
 - [“Linux Issues” on page 21](#)
 - [“Windows Issues” on page 24](#)
- [“Sun StorageTek RAID Expansion Module \(REM\) Issues” on page 25](#)
- [“LSI RAID Expansion Module \(REM\) Issues” on page 26](#)

General Information

Support and Patches for Sun Blade Server Modules

Support information for the Sun Blade X6440 server module is available at:

<http://sunsolve.sun.com>

Supported Operating Systems

The following is a list of the minimum versions of supported operating systems for the Sun Blade X6440 server module:

- Solaris x86 10 05/08, 64-bit
- Solaris x86 10 10/08, 64-bit
- Solaris x86 10 05/09, 64-bit
- OpenSolaris 2009.06
- Red Hat Enterprise Linux (RHEL) 4.6 and later, 32-bit/64-bit
- RHEL 5.1 and later, 64-bit
- Suse Linux Enterprise Server (SLES) 9 SP4, 64-bit (Not supported in SIA 2.3.8)
- SLES 10 SP2, 64-bit
- SLES 11 64-bit
- VMware ESX 3.5 U2 and later, and ESX 4.0
- VMware ESXi 3.5 and ESXi 4.0
- Windows Server 2003 Enterprise SP2, 32-bit/64-bit
- Windows Server 2008 Enterprise SP2, 32-bit/64-bit
- Windows Server 2008 R2 (Not supported in SIA)

Documentation

Support documentation for the Sun Blade X6440 server module:

- *Sun Blade X6440 Server Module Installation Guide* (820-3961)
- *Sun Blade X6440 Server Module Product Notes* (820-3965)
- *Sun Blade X6440 Server Module Operating Systems Installation Guide* (820-3962)
- *Sun Blade X6440 Server Module Windows Operating System Installation Guide* (820-3963)
- *Sun Installation Assistant for Windows and Linux User's Guide* (820-3357)
- *Sun Blade X6440 Server Module Getting Started Guide* (820-3960)
- *Sun ILOM Supplement for Sun Blade X6440 Server Module* (820-3967)
- *Sun ILOM 3.0 Supplement for Sun Blade X6440 Server Module* (821-0746)
- Sun ILOM 3.0 Documentation Collection:
 - *Sun Integrated Lights Out Manager (ILOM) 3.0 Getting Started Guide* (820-5523)
 - *Sun Integrated Lights Out Manager (ILOM) 3.0 Feature Updates and Release Notes* (820-7329)
 - *Sun Integrated Lights Out Manager (ILOM) 3.0 Concepts Guide* (820-6410)
 - *Sun Integrated Lights Out Manager (ILOM) 3.0 Web Interface Procedures Guide* (820-6411)
 - *Sun Integrated Lights Out Manager (ILOM) 3.0 CLI Procedures Guide* (820-6412)
 - *Sun Integrated Lights Out Manager (ILOM) 3.0 SNMP and IPMI Procedures Guide* (820-6413)
- *Sun Integrated Lights Out Manager 2.0 User's Guide* (820-1188)
- *Sun Blade X6440 Server Module Service Manual* (820-3964)
- *Sun Blade X6440 Server Module Safety and Compliance Guide* (820-4412)

These and other Sun Blade server module documents are available at <http://docs.sun.com/app/docs/prod/blade.x6440>.

Note – As of the ILOM 3.0.6 release, the *Sun Integrated Lights Out Manager (ILOM) 3.0 SNMP and IPMI Procedures Guide* has been renamed as the *Sun Integrated Lights Out Manager (ILOM) 3.0 Management Protocols Reference Guide*.

Sun Blade X6440 Server Module Tools & Drivers DVD

The Sun Blade X6440 Server Module Tools & Drivers DVD contains several software applications and utilities for use with your Sun Blade X6440 server module. This section describes the applications and utilities and refers you to the associated readme text files where you can find procedures for running them.

- **ILOM SP update.** Used to update the SP firmware; the readme text file is located in `<dvd_drive>:\remoteflash\Firmware_Update.txt`.
- **SP recovery utility.** Used to recover from corrupt SP firmware; the readme text file is located in `<dvd_drive>:\recovery\readme.txt`.
- **Create a Windows 2003 OS Installation CD.** Used to create a reburn CD (W2K3 CD with all required drivers); the readme text file is located in `<dvd_drive>:\utilities\reburn\readme.txt`.

Note – This utility can be performed on a Windows-based system or a Linux/Solaris-based system.

- **Windows Autorun menu.** Simply insert the Tools & Drivers DVD into the X6440 USB CD/DVD, or mount it via ILOM remote KVMS. Then perform any of the following operations:
 - Install Windows server drivers
 - Create a Windows reburn CD
 - Access links to sun.com and associated documentation
- **Solaris/Linux post OS driver update.** Used to update Intel Ethernet and AST2000 drivers (if applicable); the `install.sh` script file is located in
`<dvd_drive>:\drivers\linux\red_hat\install.sh`
`<dvd_drive>:\drivers\linux\suse\install.sh`
`<dvd_drive>:\drivers\sx86\install.sh`.

Latest Firmware Updates

Please go to <http://www.sun.com/servers/blades/downloads.jsp> for the latest firmware versions.

Newly Supported Features

The following new features are supported as of supplemental software release 2.0:

- [Integrated Lights Out Manager 3.0](#)
- [Sun ILOM Remote Console Lock](#)
- [Sun ILOM Power Management](#)

Integrated Lights Out Manager 3.0

The Sun Blade X6440 server module supports Integrated Lights Out Manager (ILOM) 3.0 on the service processor (SP) module. For information and instructions on using ILOM 3.0 with the Sun Blade X6440 server module, see the ILOM 3.0 Documentation Collection and the associated ILOM Supplement for the Sun Blade X6440 server module:

- *Sun Integrated Lights Out Manager (ILOM) 3.0 Getting Started Guide (820-5523)*
- *Sun Integrated Lights Out Manager (ILOM) 3.0 Feature Updates and Release Notes (820-7329)*
- *Sun Integrated Lights Out Manager (ILOM) 3.0 Concepts Guide (820-6410)*
- *Sun Integrated Lights Out Manager (ILOM) 3.0 Web Interface Procedures Guide (820-6411)*
- *Sun Integrated Lights Out Manager (ILOM) 3.0 CLI Procedures Guide (820-6412)*
- *Sun Integrated Lights Out Manager (ILOM) 3.0 SNMP and IPMI Procedures Guide (820-6413)*
- *Sun Integrated Lights Out Manager (ILOM) 3.0 Supplement for Sun Blade X6440 Server Module (821-0746)*

The ILOM 3.0 Documentation Collection is available at:

<http://docs.sun.com/app/docs/prod/int.lights.mgr30#hic>

Note – As of the ILOM 3.0.6 release, the *Sun Integrated Lights Out Manager (ILOM) 3.0 SNMP and IPMI Procedures Guide* has been renamed as the *Sun Integrated Lights Out Manager (ILOM) 3.0 Management Protocols Reference Guide*.

Sun ILOM Remote Console Lock

The Sun Blade X6440 server module supports the Sun ILOM Remote Console lock. The Sun ILOM Remote Console lock feature enhances your system security by enabling you to lock your computer when terminating a Sun ILOM Remote Console session. For more information and instructions for using the lock feature, see the *Sun Integrated Lights Out Manager (ILOM) 3.0 Feature Updates and Release Notes (820-7329)*.

Sun ILOM Power Management

The Sun Blade X6440 server module supports Sun ILOM power management features. Sun ILOM power management features enable you to monitor and manage your system's power consumption. For more information and instructions for using ILOM power management features, see the *Sun Integrated Lights Out Manager (ILOM) 3.0 Feature Updates and Release Notes (820-7329)*.

Hardware and BIOS Issues

The following issues apply to the Sun Blade X6440 server module hardware and/or BIOS:

- [“ILOM BIOS settings issue” on page 7](#)
- [“ILOM IP address is not updated” on page 7](#)
- [“PEM fault light illuminates after hot-inserting into the server module” on page 7](#)
- [“Power LED issue” on page 7](#)
- [“Blade server module fails to link up at 1GbE” on page 8](#)
- [“Power supply redundancy must be set to non redundant mode” on page 8](#)
- [“BIOS does not accept the ipmitool persistent boot order change command” on page 8](#)
- [“BIOS does not accept the ipmitool clear CMOS command” on page 8](#)
- [“Certain devices’ boot option ROM fails to load” on page 9](#)
- [“NEM model X4238 requires latest BIOS firmware” on page 9](#)

ILOM BIOS settings issue

If ILOM is set to use a DHCP assigned IP address, and the DHCP server is offline, wait until the DHCP server is online before attempting to reboot. Issuing a reboot or manually changing from DHCP to a static IP address will result in incorrect gateway and IP address settings to be recorded. Once DHCP is restored, the original IP address will be assigned.

Workaround:

Do not reboot the server until DHCP is restored, or connect a terminal to the serial console's NET Management port and manually assign a static IP address if access is urgently required to ILOM.

ILOM IP address is not updated

If the ILOM IP address is changed via the LAN configuration in the BIOS, the IP address will not update. The old IP address is displayed. It is recommended to change the IP address via ILOM.

If you choose to change the ILOM IP address via BIOS, exit and re-enter the LAN configuration screen to see the changes.

PEM fault light illuminates after hot-inserting into the server module

The Mellanox Infiniband PCI-E expansion module fault light may illuminate after it has been hot-inserted into a server module running the Solaris OS. The fault light will not clear itself until the system is rebooted.

Workaround:

Update to the latest BIOS that is included on the Tools and Driver v1.1 DVD-ROM or a later version.

Power LED issue

The green LED Power LED incorrectly stops blinking and turns solid green once ILOM detects that the power is good. The green Power LED should stop blinking and turn solid only when the operating system is ready.

Blade server module fails to link up at 1GbE

If the Sun Blade X6440 server module is inserted into certain slots in the Sun Blade 6048 chassis, it fails to link up at 1GbE with the X5196A-Z Sun Blade 6048 Infiniband Switched Network Express Module (NEM). This issue occurs primarily on the inner slots (BL3-BL8). These slots can only link up at 100Mb.

Workaround:

Use the outer slots (BL0-BL2 and BL9-BL11) to link up at 1GbE.

This issue is under investigation.

Power supply redundancy must be set to non redundant mode

If more than eight X6440 server modules are to be inserted into the Sun Blade 6000 chassis (which can hold a maximum of 10 server modules), power supply redundancy must be set to non redundant mode. This will allow all X6440 server modules in the chassis to be powered on simultaneously.

BIOS does not accept the `ipmitool` persistent boot order change command

The BIOS fails to permanently modify the boot order after sending the `ipmitool` persistent boot order change command.

Workaround:

This issue is fixed in the Tools & Drivers DVD 1.2 and later software release.

BIOS does not accept the `ipmitool` clear CMOS command

The BIOS fails to clear all setup settings and load system defaults after sending the `ipmitool` clear CMOS command.

Workaround:

This issue is fixed in the Tools & Drivers DVD 1.2 and later software release.

Certain devices' boot option ROM fails to load

A shadow ROM space issue exists when multiple bootable devices are installed in the system. Not all devices' bootable option ROMs will successfully load.

Workaround:

This issue is fixed in the Tools & Drivers DVD 1.2 and later software release. Users will have the option to select which option ROM to load in the BIOS setup window.

NEM model X4238 requires latest BIOS firmware

Network express module (NEM) model X4238 requires the latest BIOS firmware to work properly. The required BIOS firmware (version 1.2) is located on the Sun Blade X6440 Server Module Tools & Drivers DVD.

Sun Installation Assistant Issues

The following issues apply to the Sun Installation Assistant (SIA) software:

- "LVM partitioning is not supported when installing SLES 10 SP2 operating system" on page 10
- "SLES 9 SP4 operating system is not supported using SIA" on page 10
- "SIA will not install Infiniband drivers for Windows operating systems" on page 10
- "SIA will not install FEM/NEM drivers for 32-bit Linux operating systems" on page 10
- "SIA will not install FEM drivers for Windows 2003" on page 11
- "RHEL installed using SIA reports a MPT Fusion ctl drivers error" on page 11
- "SIA displays ILOM version as Unknown" on page 11
- "SIA displays incorrect chassis information" on page 11
- "SIA does not display storage controllers" on page 12
- "SIA displays error when installing using PXE method" on page 12
- "SIA Update function fails" on page 12
- "SIA does not install operating systems via PXE server" on page 13

LVM partitioning is not supported when installing SLES 10 SP2 operating system

Change Request ID: 6780100

If LVM disk partitioning is selected when installing the SLES 10 SP2 operating system using SIA, the installation will fail because the platform drivers will not install correctly.

Workaround: None

SLES 9 SP4 operating system is not supported using SIA

Change Request ID: 6771799

Do not use SIA to install the SLES 9 SP4 as SIA does not support this operating system.

Workaround: None

SIA will not install Infiniband drivers for Windows operating systems

Change Request ID: 6771790 and 6771803

Infiniband (IB) drivers for the IB passthru FEM (fabric express module) and IB NEM (network express module) will not install correctly when installing Windows 2003/2008 using SIA.

Workaround: None

SIA will not install FEM/NEM drivers for 32-bit Linux operating systems

Change Request ID: 676068

Model x1029A fabric express module (FEM) and model x4236A network express module (NEM) drivers will not install correctly when installing Linux (such as RHEL 32-bit and SLES 10 32-bit) using SIA.

Workaround: None

SIA will not install FEM drivers for Windows 2003

Change Request ID: 6769562

If SIA is used to install Windows 2003 on a system that contains the model x1029 A FEM, the associated device will be highlighted with a yellow question mark in the Windows Device Manager, indicating that the drivers are not installed correctly.

Workaround: None

RHEL installed using SIA reports a MPT Fusion ctl drivers error

Change Request ID: 6737853

If SIA is used to install RHEL 4.6 on a system that *does not* contain a Sun Blade I/O Expansion Module II (mptsas) controller, the following error will occur when RHEL boots:

```
starting MPT Fusion ctl drivers FAILED
```

This error is harmless and can be ignored.

Workaround: None

This issue will be fixed in future software release.

SIA displays ILOM version as Unknown

Change Request ID: 6878691

When installing the Linux operating system using SIA version 2.3.8, the ILOM version is displayed as "Unknown" in the System Information screen.

This issue will be fixed in future software release.

SIA displays incorrect chassis information

Change Request ID: 6878692

When installing the Linux operating system using SIA version 2.3.8, the System Information screen displays incorrect information for the chassis type, serial number, and version number.

This issue will be fixed in future software release.

SIA does not display storage controllers

Change Request ID: 6878694

When installing the Linux operating system using SIA version 2.3.8, the System Information screen does not display system storage controllers.

This issue will be fixed in future software release.

SIA displays error when installing using PXE method

Change Request ID: 6879495

When installing some operating systems using SIA version 2.3.8, SIA might display the following error message while SIA is determining the OS:

```
"Provide a valid URL"
```

This message can be ignored. The OS installation will complete successfully.

This issue will be fixed in future software release.

SIA Update function fails

Change Request ID: 6875404

When selecting the SIA Update function in SIA 2.3.8, SIA might display the following error message:

```
"SIA update failed..."
```

This issue will be fixed in future software release.

SIA does not install operating systems via PXE server

Change Request ID: 6876850

When using SIA version 2.3.8 to install OSes via a PXE server, SIA displays the following error message during the OS installation:

```
Error enabling swap device sda2: Invalid argument
```

This error affects all OS installations that SIA supports. This error occurs after the disk partition phase of the OS installation and might indicate that the swap device has not been initialized.

Workaround:

Add parameter `iommu=soft` in PXE server.

Integrated Lights Out Manager Issues

The following issues apply to the Sun Blade X6440 server module Integrated Lights Out Manager service:

- [“Delaying BIOS Upgrade During Firmware Update Can Corrupt BIOS” on page 14](#)
- [“Minimum Supported Browsers” on page 15](#)
- [“No warning when password length is exceeded” on page 15](#)
- [“KVMS authentication does not work with remote authentication mechanisms” on page 15](#)
- [“Solaris Remote Console session requires Java plugin” on page 15](#)
- [“Service processor might take up to 3 minutes to start” on page 16](#)
- [“Error message appears during service processor startup” on page 17](#)
- [“FRU data for the hard disk drives is not passed via ipmitool” on page 17](#)
- [“ipmitool session info all command fails” on page 17](#)
- [“Hard disk error message in the SP event log” on page 18](#)
- [“DIMM SPD data are reported incorrectly in the FRU data” on page 18](#)

For more information about the ILOM, see the online *Sun Integrated Lights Out Manager 2.0 User's Guide* (820-1188) or the *Sun Integrated Lights Out Manager 3.0 Documentation Collection*.

Delaying BIOS Upgrade During Firmware Update Can Corrupt BIOS

The ILOM SP firmware upgrade procedure includes the `Delay BIOS Update` option, which delays the BIOS update until the host is reset. This option allows you to update the firmware without resetting the host.

The following scenarios can cause your BIOS to corrupt:

- If you select the `Delay BIOS Update` option, then power down the host and remove the server module from its slot before the BIOS update is complete.
- If you select the `Delay BIOS Update` option, then power down the host and power on the server module immediately before the BIOS update is complete.
- If you start another SP firmware update before the BIOS update has been completed.

Workaround:

Do not select the `Delay BIOS Update` option. If you choose to use the `Delay BIOS Update` option:

1. Do not remove the server module from its slot until after the host has been reset and the BIOS update is complete.
2. If you are powering off the system for the first time after ILOM is upgraded, do not power on the host until the BIOS update is complete.
3. Do not attempt to update the SP firmware until after the host has been reset and the BIOS update is complete.

Note – The BIOS update after host power-off might take 3-4 minutes.

Minimum Supported Browsers

TABLE 1 shows the minimum supported browser versions for running the Integrated Lights Out Manager (ILOM) web interface for the Sun Blade X6440 server module on Solaris and Linux operating systems.

TABLE 1 Version Numbers for Browsers

	Solaris x86	RHEL 32-bit	RHEL 64-bit	SLES 32-bit	SLES 64-bit	Windows
Mozilla	1.7	1.7.12	1.7.13	1.7.8	1.7.13	N/A
Firefox	1.5.0.4	1.0.7	1.5.0.4	1.5.0.4	1.5.0.4	1.5.0.4
Internet Explorer	N/A	N/A	N/A	N/A	N/A	6

No warning when password length is exceeded

No errors or warnings are issued to the user when the user exceeds the 16-character limit for passwords via the web interface.

Workaround:

This issue is scheduled to be fixed in a future ILOM firmware release.

KVMS authentication does not work with remote authentication mechanisms

User authentication for KVMS sessions cannot be performed using any of the remote user-authentication mechanisms, such as RADIUS, LDAP, or ActiveDirectory.

Workaround:

This issue is scheduled to be fixed in a future ILOM firmware release.

Solaris Remote Console session requires Java plugin

When you launch a Remote Console session on a Solaris system, the system will prompt you for a decision regarding the `javaRKVM.jnlp` file. You have the following two options:

- If you are logged in as root, choose to open the file with its default application.

–or–

- If you are logged in as a user (not root), do the following:

1. Choose the option to save the file.

2. Download the `javaRKVM.jnlp` file and run it manually.

The download manager will display the location of this file.

3. Move the `javaRKVM.jnlp` file to the `/tmp` directory.

```
% mv /location_of_javaRKVM.JNLP/javaRKVM.JNLP /tmp
```

Where `location_of_javaRKVM.JNLP` is the directory where `javaRKVM.JNLP` resides.

4. To find the location of the `javaws` application, enter the following in a terminal window:

```
% which javaws
```

5. Execute the following command from the terminal window:

```
% /location_of_javaws/javaws /tmp/javaRKVM.JNLP
```

Where `location_of_javaws` is the directory where `javaws` resides.

Example:

Assuming that the `javaws` application is run from the `/usr/bin` directory, the following command will open a Remote Console session:

```
% /usr/bin/javaws /tmp/javaRKVM.JNLP
```

Once the remote console window is closed, the `/tmp/javaRKVM.jnlp` is removed.

Service processor might take up to 3 minutes to start

On server blade insertion or server processor (SP) reset, the SP might take up to 3 minutes to start. The SP will not function during this time, and the port 80 reader will toggle between 55 and AA.

Error message appears during service processor startup

The following error message may appear during service processor (SP) startup:

```
Mike driver.  
insmod: cannot insert  
'/lib/modules/2.6.15.4/misc/mtd_mike/mike.ko': No such device (-  
1): No such device  
modprobe: failed to load module mike
```

This issue is being investigated. It is safe to ignore this message.

FRU data for the hard disk drives is not passed via ipmitool

FRU data for the hard disk drives (HDD) is not passed via ipmitool. For example, the following error message is received:

```
FRU Device Description : HDD0 (ID 24)  
Device not present (Requested sensor, data, or record not  
found)
```

```
FRU Device Description : HDD1 (ID 25)  
Device not present (Requested sensor, data, or record not  
found)
```

Workaround:

This issue is scheduled to be fixed in a future ILOM/BIOS release.

ipmitool session info all command fails

The ipmitool session info all command fails. For example, the following error message is received:

```
ipmitool -H 129.148.53.83 -U root -P changeme session info all  
Get session Info command failed
```

Workaround:

This issue is scheduled to be fixed in a future ILOM/BIOS release.

Hard disk error message in the SP event log

The following error message might appear in the SP event log when no hard disk is installed.

```
System Firmware Error | Unrecoverable hard-disk controller failure | Asserted
```

Workaround:

It is safe to ignore this error message.

DIMM SPD data are reported incorrectly in the FRU data

Certain DDRII DIMMs are displayed incorrectly in the SP FRU data. For example, DDRII 800 MHz DIMMs are listed only as 444 MHz DIMMs in the FRU data. This is a FRU data discrepancy and it does not impact memory and system performance.

Workaround:

This issue is scheduled to be fixed in a future ILOM firmware release.

Diagnostics Issues

This section contains the following:

- [“Pc-Check Diagnostics Software Issues” on page 18](#)
 - [“Hard disk information is unknown” on page 19](#)
 - [“Serial port test fails” on page 19](#)
- [“SunVTS Diagnostics Software Issues” on page 19](#)
 - [“SunVTS I/O port test fails” on page 19](#)

Pc-Check Diagnostics Software Issues

The following issues apply to the Pc-Check diagnostics software.

Hard disk information is unknown

When running the Pc-Check hard disk diagnostics, the hard disk information, hard disk firmware, and serial number are listed as unknown.

Serial port test fails

The Pc-Check serial port test fails because Pc-Check does not support the RJ-45 serial port connector.

SunVTS Diagnostics Software Issues

The following issue applies to SunVTS™ diagnostics software.

SunVTS I/O port test fails

The SunVTS I/O port test fails when the system is in exerciser mode. This occurs because the test fails to read written bytes at various baud rates when the system is under heavy stress.

Workaround:

Run the SunVTS I/O port test in standalone or in component mode.

Operating System Issues

This section contains the following:

- [“Solaris Issues” on page 20](#)
 - [“Warning message might appear during startup” on page 20](#)
 - [“Solaris OS installation halts during the installation” on page 20](#)
- [“Linux Issues” on page 21](#)
 - [“USB device errors reported in Red Hat 5.1” on page 21](#)
 - [“Unable to hot plug PCI-E expansion modules \(PEM\)” on page 21](#)
 - [“PCI BIOS error message might appear” on page 22](#)
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For a list of minimum supported operating systems, see “Supported Operating Systems” on page 2.

Solaris Issues

Note – The Sun Blade X6440 is delivered with a preinstalled Solaris OS. This OS is set by default to be redirected through the serial console connection (ttya). To change this to local monitor/keyboard, use the GRUB menu at boot time, and select the VGA option.

Warning message might appear during startup

When using a compact flash device, the following warning message might appear during Solaris startup:

```
WARNING: /pci@0,0/pci-ide@4/ide@0 unable to enable write cache
targ=0
```

It is safe to ignore this message.

Solaris OS installation halts during the installation

Change Request ID: 6848353

When installing the Solaris OS in a system that contains an LSI 1068e B3 HBA, the installation halts at the “Configuring Devices” screen. This issue does not occur when using other HBA cards in the system.

This issue is being investigated.

Linux Issues

The following issue applies to Sun Blade X6440 server modules running the supported Red Hat Enterprise Linux (RHEL) or SUSE Linux Enterprise Server (SLES) operating systems.

USB device errors reported in Red Hat 5.1

The following error is generated when a USB device is inserted in the USB ports on the Sun Blade X6440 server module:

```
usb 1-2; device not accepting address 2, error -71
```

This is a RHEL 5.1 issue.

Workaround:

You must manually create a new `initrd.img` file in your current installation:

1. **Open a terminal window.**
2. **Navigate to the `/boot` directory.**

```
cd /boot
```
3. **Rename the `initrd.img` file by typing the command:**

```
mv initrd-<version>.img initrd-<version>.img.save
```
4. **Create a new `initrd.img` file by typing the command:**

```
mkinitrd initrd-<version>.img <uname - r>
```
5. **Reboot the server module to effect the changes.**

Unable to hot plug PCI-E expansion modules (PEM)

The “acpiphp” module is not loaded in the kernel by default.

Workaround:

1. **Open a terminal window.**
2. **Type the command:**

```
modprobe acpiphp
```

3. Insert the PEM in either slot and press the Attn button.

The PEM is ready to use when the OK LED turns solid green.

PCI BIOS error message might appear

The following error message might appear when booting or running the `dmesg` command in RHEL 5.1:

```
PCI: BIOS Bug: MCFG area at e0000000 is not E820-reserved
PCI: Not using MMCONFIG.
```

It is safe to ignore this message.

IGB error message might appear

The following IGB error message might appear in `dmesg`:

```
igb: 0000:84:00.1: igb_set_interrupt_capability: Failed to
initialize MSI-X interrupts.
Failing back to MSI interrupts.
igb: 0000:84:00.1: igb_set_interrupt_capability: Failed to
initialize MSI interrupts.
Failing back to legacy interrupts.
```

Both onboard Intel 82575EB network interface cards (NICs) are still functional. It is safe to ignore this message. This issue is being investigated.

Error messages might appear in SLES 10 OS `dmesg`

The following error messages might appear in the SLES 10 SP2 64-bit OS `dmesg`:

```
Evaluate _OSC Set fails. Status = 0x0005 aer_init: AER service
init fails - No ACPI_OSC support aer: probe of
0000:00:0a.0:pcie01 failed with error 1
```

Workaround:

This issue is being investigated.

Only 8 of 16 CPU cores being reported

The Linux operating system only reports 8 CPU cores out of the possible 16 CPU cores in the server module. This issue occurs because of a Linux kernel limitation.

Workaround:

Install and boot from the `largesmp` kernel version, which can be found in the installation media.

Post OS driver update script fails to run

The following error message might display when running the post OS driver (`install.sh`) update script:

```
bash ./install.sh: /bin/sh: bad interpreter: Permission denied
```

Workaround:

Run the post OS driver update using the `sh install.sh` command, or unmount and remount the Tools & Drivers DVD manually.

SLES OS driver installation takes a long time to complete

Installing SLES OS drivers might take a long time to complete if the host firewall is enabled. This issue occurs when running the `install.sh` script from the Tools & Drivers DVD.

Workaround:

Disable the host firewall before installing SLES OS drivers.

NIC drivers are not supported by SLES11 OS

Change Request ID: 6871270

The Sun Blade RAID Expansion Module (REM) and Intel 82575 Gigabit Ethernet Controller network interface card (NIC) drivers on the Sun Blade X6440 server module Tools & Drivers DVD do not work with the SLES11 operating system.

This issue is being investigated.

SLES 9 SP4 hangs during installation or startup

SLES 9 SP4 hangs during installation or startup on systems with over 4 GB of RAM. SLES9 SP4 (kernel 2.6.5-7.308) installs correctly on a system with a quad-core AMD Opteron processor with over 4 GB of RAM; however, on the initial boot after installation, the system hangs.

Workaround:

This issue can be resolved by following these steps:

1. Temporarily limit the memory to less than 4 GB.

This can be accomplished by physically removing RAM to reduce it to less than 4 GB.

Alternately, you can use a boot parameter to limit the memory that is used by SLES. The boot parameter is `mem=nnnn`, where `nnnn` is equal to a number less than 4000.

2. Install the latest kernel update to version 2.6.5-7.311 or newer.

After using the above method to limit the memory while the system is installed, the kernel can be updated to provide the fixes so that the full amount of memory can be used.

Information about this kernel update and how to download it is available at <http://support.novell.com/techcenter/psdb/436375e56cfcb119e5e42c29cf234297.html>.

USB devices are not recognized in RHEL 4.7

The RHEL 4.7 operating system does not recognize USB 2.0 devices. This causes the OS installations that use a USB DVD-ROM or ILOM remote KVMS device to fail. More details and a fix for this issue can be found at:

<http://rhn.redhat.com/errata/RHBA-2008-0650.html>

Workaround:

Either install RHEL 4.7 over a network or install the updated kernel fix from the Red Hat web site. Alternatively, you can remove the `ehci-hcd.ko` module from the kernel by typing the `rmmod ehci_hcd` command from the system prompt.

Windows Issues

Windows Autorun does not install drivers

Windows autorun does not install drivers. This occurs when Windows User Account Control is turned on.

Workaround:

1. Turn off Windows User Account Control.

2. Reboot the system for the changes to take effect.
3. Run Windows Autorun to install drivers.

Yellow question mark might appear in Windows Device Manager

A yellow question mark might appear in the Windows Device Manager, denoting that drivers are not installed for the following devices:

- Sun Blade Storage SCSI Enclosure Device
- Sun NEM Plus SCSI Enclosure Device

Workaround:

Run Windows Update to install the necessary drivers.

System does not boot from floppy drive image

The system does not boot Windows from a floppy drive image installation. This occurs because the BIOS sets the virtual floppy as the first (top) USB bootable device.

Workaround:

1. During system boot, press F2 to enter the BIOS Setup Utility.
2. From the Boot/USB devices menu, change the device boot order to set the virtual CDROM as the first (top) USB bootable device.

Sun StorageTek RAID Expansion Module (REM) Issues

Use the StorageTek BIOS setup utility

Before the operating system can use hard disk drives attached to a StorageTek SAS controller, the drives must first be initialized and an array created using the StorageTek BIOS Setup Utility. The StorageTek BIOS Setup Utility can be accessed by pressing the CTRL + A keystroke combination during the server blade power on self-test (POST).

LSI RAID Expansion Module (REM) Issues

This section contains the following LSI RAID REM issues:

- [“Extra hard disk drive space required when upgrading to a Mirrored RAID configuration” on page 26](#)
- [“Upgrade path for data merging” on page 26](#)

Extra hard disk drive space required when upgrading to a Mirrored RAID configuration

You must have 100 MB of free unpartitioned disk space at the end of the hard disk drive if you want to upgrade to a mirrored RAID configuration.

Upgrade path for data merging

The only upgrade path that supports data merging is from a single disk to a mirror. This is a limitation of the LSI card. If you want to upgrade from a single disk to an IME (Integrated Mirror Extension) or an IMS (Integrated Mirror Stripe), the data and OS will be lost and a reinstallation and restore will be required.

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