Sun Blade X6270 M2 Server Module

Product Notes, Software Release 1.4

Part No.: E22381-07
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Sun Blade X6270 M2 Server Module Product Notes

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General Information

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Product Information

For information about the Sun Blade X6270 M2 Server Module, go to the following Oracle product web site:

`http: //www.oracle.com/goto/x6270m2`

At that site, you can find information about the following:

- Product information and specifications
- Supported operating systems
- Software and firmware downloads

Firmware Supported in This Release

TABLE 1 identifies the Oracle ILOM and BIOS firmware versions that are supported in Software Release 1.4 and in previous software releaaes

TABLE 1 Sun Blade X6270 M2 Server Module Firmware Available in Software Releases

Software Release	Oracle ILOM Service Processor (SP) Firmware	Oracle ILOM Chassis Monitoring Module (CMM) Firmware	BIOS Firmware for X6270 M2 Server Module
1.4.1	3.0.16.11.h	3.0.10.15.b (r57573) (or subsequent release) 3.0.12.10 (or subsequent release)	08.07.03.06
1.4	3.0.16.11.g	3.0.10.15.b (r57573) (or subsequent release) 3.0.12.10 (or subsequent release)	08.07.03.05
1.3.2	3.0.16.11.e	3.0.10.15.b (r57573) (or subsequent release) 3.0.12.10 (or subsequent release)	08.07.02.03
1.3.1	3.0.16.11.d	3.0.10.15.b (r57573) (or subsequent release) 3.0.12.10 (or subsequent release)	08.07.02.02
1.3	3.0.16.11.b	3.0.10.15.b (r57573) (or subsequent release) 3.0.12.10 (or subsequent release)	08.07.02.02
1.2.1	3.0.16.11.a	3.0.10.15.b (r57573) (or subsequent release) 3.0.12.10 (or subsequent release)	08.07.01.09
1.2	3.0.16.11	3.0.10.15.b (r57573) (or subsequent release) 3.0.12.10 (or subsequent release)	08.07.01.08
1.1.3	3.0.14.12.c	3.0.10.15.b (r57573) (or subsequent release) 3.0.12.10 (or subsequent release)	08.05.02.03
1.1.2	3.0.14.12.b	3.0.10.15.b (r57573) (or subsequent release) 3.0.12.10 (or subsequent release)	08.05.02.03
1.1.1	3.0.14.12.a	3.0.10.15.b (r57573) (or subsequent release) 3.0.12.10 (or subsequent release)	08.05.02.03
1.0.1	3.0.9.15.a	3.0.6.11.b (r489888) (or subsequent release) 3.0.12.10 (or subsequent release)	08.02.01.05

Firmware Updates

The latest Oracle Integrated Lights Out Manager (ILOM) and BIOS firmware is shipped installed on the Sun Blade X6270 M2 Server Module. If you need to reinstall this firmware or obtain updates to this firmware, you can obtain the firmware for the Sun Blade X6270 M2 Server Module from the My Oracle Support web site at:

http://support.oracle.com

Versions of Intel Microcode and Reference Code Used in BIOS Firmware

TABLE 2 lists the versions of the Intel Microcode and Reference Code used in the BIOS firmware image for Software Release 1.4.

TABLE 2 Intel Microcode and Reference Code Used in BIOS Firmware for Software Release 1.4

Intel Software	Version
Intel CPU Microcode	SRV_C_89
Intel RC	p2.93
Intel CPU Reference Code	1.08
Intel QuickPath Interconnect (QPI) Reference Code	1.85
Intel Memory Reference Code (MRC)	2.12

Oracle ILOM Operates in Dual-Stack IPv4 and IPv6 Network Environments

As of Oracle ILOM 3.0.12 and later releases, dual-stack IPv4 and IPv6 settings are provided that enable Oracle ILOM to fully operate in IPv4 and IPv6 network environments. Prior to Oracle ILOM 3.0.12, network configurations settings for IPv4 were provided.

Oracle ILOM enhancements for IPv6 include:

- Support for a larger 128-bit IPv6 addressing space
- Acceptance of IPv6 addresses in designated text entry fields and URLs in the Oracle ILOM CLI and web interface

For more information about this upgrade, refer to the Oracle Integrated Lights Out Manager (ILOM) 3.0 Documentation Collection at:

http://www.oracle.com/pls/topic/lookup?ctx=ilom30

Operating Systems Supported

The Sun Blade X6270 M2 Server Module supports the following operating system editions:

- Oracle Linux 5.4, 5.5, 5.6, 5.7, and 5.8 (64-bit)
- Oracle Linux 6.0, 6.1, and 6.2 (64-bit)
- Oracle VM 2.2.1, 2.2.2, 3.0.2, 3.0.3, and 3.1.1
- Oracle Solaris 11 11/11
- Oracle Solaris 10 10/09
- Microsoft Windows Server 2008 SP2 Datacenter (64-bit) with Hyper-V
- Microsoft Windows Server 2008 SP2 Enterprise (64-bit) with Hyper-V
- Microsoft Windows Server 2008 SP2 Standard (64-bit) with Hyper-V
- Microsoft Windows Server 2008 R2 SP1 Datacenter (64-bit) with Hyper-V
- Microsoft Windows Server 2008 R2 SP1 Enterprise (64-bit) with Hyper-V
- Microsoft Windows Server 2008 R2 SP1 Standard (64-bit) with Hyper-V
- Red Hat Enterprise Linux (RHEL) 5.4, 5.5, 5.6, 5.7, and 5.8 (64-bit)
- Red Hat Enterprise Linux (RHEL) 6.0, 6.1, and 6.2 (64-bit)
- SUSE Linux Enterprise Server (SLES) 10 SP3 and SP4 (64-bit)
- SUSE Linux Enterprise Server (SLES) 11 (64-bit) and SLES 11 SP1 and SP2
- VMware ESX and ESXi 4.0 Update 1 and Update 2
- VMware ESX and ESXi 4.1
- VMware ESX and ESXi 5.0

Refer to the respective operating system installation guide within the Sun Fire X6270 M2 Documentation Collection for installation instructions for the operating systems listed above. The Sun Fire X6270 M2 Documentation Collection is available at:

http://docs.oracle.com/cd/E19474-01/index.html

Note – Oracle Solaris 10 Operating System and Oracle VM are available as preinstalled options on a server disk drive. For configuration instructions for these preinstalled options, refer to the *Sun Blade X6270 M2 Server Module Installation Guide*.

Support and Patches

Support information for the Sun Blade X6270 M2 Server Module is available at:

http://support.oracle.com

Tools and Drivers

A Tools and Drivers ISO image for the Sun Blade X6270 M2 Server Module is available for you to download. This ISO image includes device drivers, RAID management software, and other software utilities for use with your server module. You can download the latest Tools and Drivers ISO image for the Sun Blade X6270 M2 Server Module from the My Oracle Support web site at:

http://support.oracle.com

Documentation Collection

The Sun Blade X6270 M2 Documentation Collection, including updated Product Notes for server module, is available at the following documentation web site:

http://docs.oracle.com/cd/E19474-01/index.html

Note – Translated versions of the *Sun Blade X6270 M2 Server Module Installation Guide* include information about the flash module on disk (FMOD) and the energy storage module (ESM). These components are not supported on the Sun Blade X6270 M2 Server Module. Please disregard that information in the translated documents and refer to the latest English-language version of the *Sun Blade X6270 M2 Server Module Installation Guide*.

Enhancements and Resolved Issues

Topics

Description	Link
iSCSI function support added	• "Enhancements as of SW 1.3" on page 7
BIOS resolved issues	• "BIOS Resolved Issues" on page 8

Enhancements as of SW 1.3

TABLE 3 Enhancements as of SW 1.3

CR	Description
7087299	**iSCSI Function Support Added as of Software Release 1.3**
	Enhancement: After pressing "F2" to access the BIOS Setup menu, you can select `BOOT --> Option ROM Enable --> Kawela iSCSI Feature`. You can now toggle the iSCSI setting from the default `Disabled` to `Enabled`. When enabled, BIOS will automatically disable the onboard network controller's PXE option ROM, and BIOS will run the iSCSI option ROM first. **Note -** Option ROM runtime code for iSCSI is about 40k. After iSCSI is enabled, inserting many other PCIe devices with option ROM might trigger a warning message about the ROM size. **Note -** Oracle VM 3.0 SERVER INSTALL/BOOT over iSCSI is not supported as of Software Release 1.3.2

BIOS Resolved Issues

TABLE 4 BIOS Resolved Issues

CR	Description
7049067	**Link Speed of the Sun Storage 6 Gb SAS ExpressModule HBA Is Reduced to Gen1 Speed When the HBA Is Hot-Plugged**
	Issue: The Sun Storage 6 Gb SAS ExpressModule Host Bus Adapter (HBA) (SGX-SAS6-EM-Z) will reduce its link speed to 2.5GT/s when hot-plugged on the Sun Blade X6270 M2 Server Module.
	Affected Hardware: • Sun Blade X6270 M2 Server Module • Sun Storage 6 Gb SAS ExpressModule HBA (SGX-SAS6-EM-Z)
	Fix Available: Fixed in Software Release 1.2.1.
6898588	**Using <CTRL-N> With the REM HBA Option Card Installed Might Bypass Network Boot and REM HBA Option ROM Load**
	Issue: If the Sun Storage 6 Gb SAS RAID Expansion Module (REM) Host Bus Adapter (HBA) (SGX-SAS6-REM-Z) option card is installed in the system, and <CTRL-N> is used on the serial console to initiate a network boot, the network boot might not be initiated, and the Option ROM for the REM HBA option card might not be loaded.
	Affected Hardware and Software: • Sun Storage 6 Gb SAS REM HBA (SGX-SAS6-REM-Z) option card • Software releases 1.0.1 and 1.1.1
	Workaround: Do one of the following: • Use the Oracle ILOM Remote Console and press F12 to initiate a network boot. • If using the serial console, use <CTRL-E> to get to the BIOS Boot Device Priority menu, and then move the desired PXE adapter (network boot device) to the top of the Boot Device Priority list. The PXE adapter will then be used as the boot device. • Press <CTRL-N> during, or after, the time SGX-SAS6-REM-Z Option ROM code is running. The Option ROM code is running when the following banner is displayed: `LSI Corporation MPT SAS2 BIOS. Copyright 2000-2010 LSI Corporation.`
	Fix Available: This issue is resolved in Software Release 1.2.

TABLE 4 BIOS Resolved Issues *(Continued)*

CR	Description
6979993	**Do Not Disable** `Redirection After BIOS Post`
	Issue: If `Redirection After BIOS Post` is disabled in the BIOS Setup Utility, BIOS will fail during boot.
	Affected Hardware and Software: • Sun Blade X6270 M2 Server Module • All releases through software 1.3
	Workaround: To enable redirection after BIOS POST: 1. Enter the BIOS Setup Utility. 2. Select Advanced > Remote Access Configuration. 3. Enable Redirection After BIOS POST. 4. Press F10 to save your settings and exit the BIOS Setup Utility. 5. Reboot the system.
	Fix Available: This issue is resolved in Software Release 1.4.

Known Open Issues

Topics

Description	Link
Hardware known issues, descriptions, and workarounds	• "Hardware Known Issues" on page 10
BIOS known issues, descriptions, and workarounds	• "BIOS Known Issues" on page 14
ILOM known issues, descriptions, and workarounds	• "Oracle ILOM Known Issues" on page 15
Virtual Machine Software known issues, descriptions, and workarounds	• "Virtual Machine Software Known Issues" on page 16
Oracle Solaris known issues, descriptions, and workarounds	• "Oracle Solaris Known Issues" on page 20

Topics

Description	Link
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Documentation Updates and Errata	• "Documentation Updates and Errata" on page 25

Hardware Known Issues

TABLE 5 Hardware Known Issues

CR	Description
1586126	**Fault Reported for Non-Existent NEM**
	Issue: In a powered-off Sun Blade 6000 Modular System, the amber Service Required LED for a network express module (NEM) reports an erroneous fault condition. When the Sun Blade 6000 Modular System that has a Sun Blade X6270 M2 or X6270 M3 server module (blade) installed is powered off, the amber Service Required LED might be illuminated for one of the NEMs (NEM0 or NEM1) even when there is no NEM installed in the chassis. In this case, ILOM reports a `fault.fruid.corrupt` message.
	Affected Hardware and Software: Sun Blade X6270 Server Module Supplemental Software Software Releases 1.0, 1.1, 1.2, 1.4, 2.0, 2.0.1, 2.1, 2.3, 2.4
	Workaround: Power on the chassis. After the chassis is powered on, the Service Required LED for the NEM is extinguished and the system recognizes that no NEM is present.

TABLE 5 Hardware Known Issues *(Continued)*

CR	Description
7084903	**SLES 11 SP1 Does Not Find the Sun Blade 6000 Virtualized 40 GbE NEM Device After Hot-Plugging That NEM on Sun Blade X6270 M2 Server Module**
	Issue: After hot-plugging the Sun Blade 6000 Virtualized 40 GbE Network Express Module (NEM) on the Sun Blade X6270 M2 Server Module, the system cannot find the NEM when running the SUSE Linux Exterprise Server 11 SP1 operating system.
	Affected Hardware and Operating System: • Sun Blade X6270 M2 Server Module • Sun Blade 6000 Virtualized 40 GbE Network Express Module (7100090) • Pass-Thru PCIe 2.0 Fabric Expansion Module (7100633) • SUSE Linux Enterprise Server 11 SP 1 (SLES 11 SP1)
	Workaround: Use software release 1.3.2 and later firmware and the new version of the Pass-Thru PCIe 2.0 Fabric Expansion Module 7100633 (new PCA part number is 7041199).
7082742	**Sun Blade 6000 Ethernet Switched NEM 24p 10 GbE Missing in `hostdiags` Information**
	Issue: When using Oracle ILOM on a Sun Blade X6270 Server Module with two Sun Blade 6000 Ethernet Switched Network Express Module (NEM) 24p 10GbE and a Sun Dual 10 GbE PCIe 2.0 Fabric Expansion Module (FEM), hostdiags information shows only NEM0 is ACTIVE, while NEM1 is NOT ACTIVE.
	Affected Hardware: • Sun Blade X6270 M2 Server Module • Sun Blade 6000 Ethernet Switched Network Express Module 24p 10GbE (X2073A) • Sun Dual 10 GbE PCIe 2.0 Fabric Expansion Module (4871A-Z-N)
	Workaround: No workaround is available. The Fabric Expansion Module (FEM) is seen as a PCIe device attached on the root port. NEM1 is shown as NOT ACTIVE in the hostdiags information, which means that no FEM is on the root port even though two NEMs are populated in the system.

TABLE 5 Hardware Known Issues *(Continued)*

CR	Description
No CR Number	**Server Module REM Might Hang When Inserted Into a Chassis With SAS-1 Devices**
	Issue: If the Sun Blade X6270 M2 Server Module is inserted into a Sun Blade 6000 Modular System chassis that has SAS-1 Network Express Modules (NEMs), or SAS-1 NEMs and a Sun Blade 6000 Disk Module, the server module's SAS-2 RAID Expansion Module (REM) might hang.
	Affected Hardware and Firmware: • Sun Blade X6270 M2 Server Module • Sun Blade 6000 Disk Module • Sun Blade 6000 Multi-Fabric Network Express Module • Sun Blade 6000 Virtualized Multi-Fabric 10GbE Network Express Module • Sun Blade 6000 Multi-Fabric 10GbE Network Express Module • Sun Blade 6000 Disk Module Firmware Version 5.04.03
	Workaround: To prevent this problem, you need to upgrade the firmware of your SAS-1 components (SAS-NEMs and disk modules) to a firmware version that supports SAS-1/SAS-2 coexistence. This upgrade must be done before you insert the Sun Blade X6270 M2 Server Module into the chassis. At a minimum, all SAS expanders for SAS-1 NEMs and Sun Blade 6000 Disk Modules must be upgraded to firmware revision 5.04.03 to allow SAS-1/SAS-2 device coexistence in the Sun Blade 6000 Modular System chassis. See the *SAS-1/SAS-2 Compatibility Upgrade Guide* for details on obtaining the firmware and performing the upgrade.
6931323	**LED That Monitors Activity of Intel 32GB SSD and Seagate 500GB HDD Does Not Work Correctly**
	Issue: The Intel 32GB solid state drive (SSD) and Seagate 500GB hard disk drive (HDD) green Activity LED does not light and remain illuminated when there is no disk activity. The LED blinks when there is disk activity, but does not remain lit when the disk is idle.
	Affected Hardware: • Sun Blade X6270 M2 Server Module • Sun Blade 6000 Disk Module
	Workaround: No workaround is available.

TABLE 5 Hardware Known Issues *(Continued)*

CR	Description
6879222	**1GB Ethernet Controller Fails to Link at 1Gb/s With 100m Cable in Virtualized Multi-Fabric 10GbE NEM**
	Issue: On-board Ethernet devices might experience an occasional failure to establish a connection at 1Gb/s, and might automatically establish a connection at 100 Mb/s instead.
	Affected Hardware: • Sun Blade X6270 M2 Server Module • Sun Blade 6000 Disk Module
	Workaround: Use an Ethernet cable 66 meters or shorter. Alternatively, you can force the Ethernet link to 100Mb/s.

BIOS Known Issues

TABLE 6 BIOS Known Issues

CR	Description
7049051	**When Using Oracle Linux 6, Hot-Swap Replacement of Host Bus Adapters (HBAs) With Converged Network Adapter (CNA) Will Fail**
	Issue: When using Oracle Linux 6, a hot-swap operation will fail when replacing a StorageTek Dual 8Gb FC Dual GbE HBA, ExpressModule, Emulex (SG-XPCIEFCGBE-E8-N) or StorageTek Dual 8Gb FC Dual GbE HBA, ExpressModule, QLogic (SG-XPCIEFCGBE-Q8-N) with a Sun Storage 10GbE FCoE ExpressModule Converged Network Adapter (SG-XEMFCOE2-Q-SR/SG-XEMFCOE2-Q-TA) on the Sun Blade X6270 M2 Server Module.
	Affected Hardware and Operating System: • Sun Blade X6270 M2 Server Module • StorageTek Dual 8Gb FC Dual GbE HBA, Express Module, Emulex (SG-XPCIEFCGBE-E8-N) • StorageTek Dual 8Gb FC Dual GbE HBA, Express Module, QLogic (SG-XPCIEFCGBE-Q8-N) • Sun Storage 10GbE FCoE ExpressModule Converged Network Adapter (SG-XEMFCOE2-Q-SR/SG-XEMFCOE2-Q-TA) • Oracle Linux 6
	Workaround: No workaround is available. A reboot of the system will load the Express Module card correctly.
6942287	**PXE Boot Might Fail After Running Pc-Check Diagnostics**

	Issue:
	When attempting to PXE boot immediately after running Pc-Check diagnostics software, the boot attempt might fail with a message similar to the following:
	`Intel(R) Boot Agent GE v1.3.31`
	`Copyright (C) 1997-2009, Intel Corporation`
	`PXE-EC8: !PXE structure was not found in UNDI driver code segment. PXE-M0F: Exiting Intel Boot Agent.`

	Affected Hardware: • Sun Blade X6270 M2 Server Module • Sun Blade 6000 Disk Module
	Workaround: Run Pc-Check diagnostics again, then reboot the system.

TABLE 6 BIOS Known Issues *(Continued)*

CR	Description
6978869	**Operating System Might Hang After Running Pc-Check Diagnostics**
	Issue: After running Pc-Check diagnostics software, if you attempt to install or boot an operating system, the operating system install or boot might hang.
	Affected Hardware: • Sun Blade X6270 M2 Server Module
	Workaround: Reboot the system after running Pc-Check diagnostics and before trying to install or boot an operating system.

Oracle ILOM Known Issues

TABLE 7 Oracle ILOM Known Issues

CR	Description
6928567	**Unable to Launch Oracle ILOM 3.0.x Remote Console Using JRE 1.6.0 U14, U15, or U16**
	Issue: If you try to launch the Oracle ILOM 3.0.x Remote Console via the web using some builds of Java Runtime Environment (JRE), the system returns the error `Unable to Launch the Application`.
	Affected Operating Systems and Firmware: • All operating systems running Oracle ILOM 3.0 with JRE 1.6.0, U14, U15, or U16.
	Workaround: Upgrade to JRE 1.6.0 U17 or later.

TABLE 7 Oracle ILOM Known Issues *(Continued)*

CR	Description
6923903	**SP Restore Is Partially Successful and Reports an Error in the Log**

	Issue:
	If the serial console is in use, properties related to the serial console cannot be restored and you will receive messages such as the following:
	`Config restore: Unable to restore property '/SP/serial/host/commitpending'`
	`Config restore: Unable to restore property '/SP/serial/external'`
	Because such properties could not be restored, this is a partial failure and, therefore, results in the above message about the partial failure. This is not a defect.

	Affected Operating Systems and Firmware: • All operating systems running Oracle ILOM 3.0.x
	Workaround: Log out of the serial console and try to run `restore` again.

Virtual Machine Software Known Issues

TABLE 8 Virtual Machine Software Known Issues

CR	Description
7090903	**iSCSI Boot Is Not Supported on Oracle VM 3.0**
	Issue: The iSCSI target does not display during installation of Oracle VM 3.0
	Affected Software: • Oracle VM 3.0
	Workaround: There is currently no workaround. Oracle VM 3.0 does not support iSCSI boot.

TABLE 8 Virtual Machine Software Known Issues *(Continued)*

CR	Description
6929991	**"EHCI BIOS handoff failed" Message Appears**
	Issue: The "EHCI BIOS handoff failed" message appears in VMware ESX 4.0 Update 1. The failure message appears in the `dmesg` output.
	Affected Software: • VMware ESX 4.0 Update 1
	Workaround: This message can be safely ignored. It does not cause any functional problems.
7095810 and 7123117	**Hot-Unplugging HBA ExpressModule Causes Kernel Panic** **Hot-Unplugging NEM Causes Kernel Panic**
	Issue: When running Oracle VM 3.0.1 or 3.0.2, a system kernel panic might occur when you hot-unplug one of these components: • StorageTek Dual 8Gb FC Dual GbE HBA, ExpressModule, QLogic • StorageTek Dual 8Gb FC Dual GbE HBA, ExpressModule, Emulex • Quad Port (4x) Gigabit Ethernet Network Express Module • Sun Blade 6000 Virtualized 40 GbE Network Express Module
	Affected Hardware and Software: • StorageTek Dual 8Gb FC Dual GbE HBA, ExpressModule, QLogic (SG-XPCIEFCGBE-Q8-Z) • StorageTek Dual 8Gb FC Dual GbE HBA, ExpressModule, Emulex (SG-XPCIEFCGBE-E8-Z) • Quad Port (x4) Gigabit Ethernet Network Express Module (7284A-Z) • Sun Blade 6000 Virtualized 40 GbE Network Express Module (7100090) • Oracle VM 3.0.1 or 3.0.2
	Workaround: No workaround is available. Do not attempt the hot-unplug operation.
6927196	**Oracle VM Manager 2.2 Install Fails on 6-Core CPU Configurations**
	Issue: When installing Oracle VM Manager 2.2 on a Sun Blade X6270 M2 Server Module with 6-core processors (CPUs), the install might fail and exit with the message `Database is not available`.
	Affected Hardware and Software: • Sun Blade X6270 M2 Server Module • Oracle VM Manager 2.2
	Workaround: To resolve this issue, see the patch and installation instructions at: `http://oss.oracle.com/oraclevm/manager/patch`

TABLE 8 Virtual Machine Software Known Issues *(Continued)*

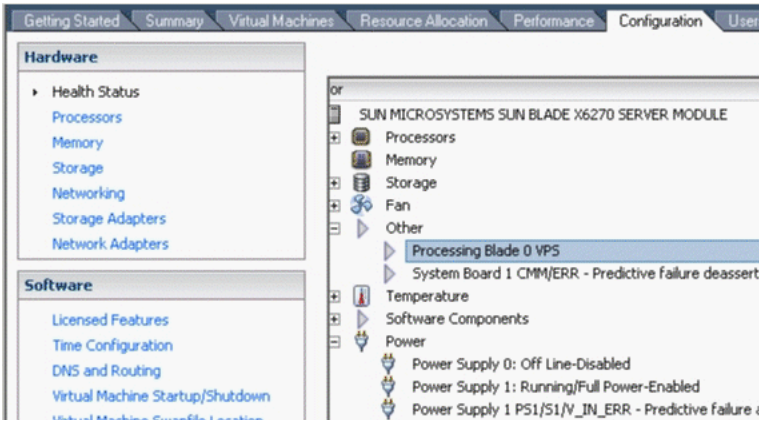
CR	Description
6779112	**Misleading Status for Power Supplies Is Reported by VMware Health Status Screen**
	Issue: The VMware Virtual Infrastructure client Health Status screen under the `Power` component reports the server power supplies in an Off-Line Disabled state and 0 watts, even though the power supplies are on-line and enabled.
	Affected Software: • VMware ESX 4.0 Update 1
	Workaround: To view the correct power status while in the VMware Virtual Infrastructure client Health Status screen, click on the `Other` component from the list of available options and view the blade *n* VPS (where *n* is the blade number). 

TABLE 8 Virtual Machine Software Known Issues *(Continued)*

CR	Description
6900741	**Local Storage Drive Is Not Seen After Installing VMware ESXi 4.0 Update 1**
	Issue: If the Sun Blade X6270 M2 Server Module has a local storage drive attached to a Sun Blade RAID 0/1 RAID Expansion Module (X4607A-Z), the local storage drive is not seen by the system after installing VMware ESXi 4.0 Update 1.
	Affected Software: • VMware ESXi 4.0 Update 1
	Workaround: After completing the ESXi installation, follow these steps to add the local storage drive to the storage inventory: 1. Add the ESXi host to the data center of your choice using the Virtual Infrastructure Client. 2. Select the ESXi host added in Step 1, then click the `Configuration` tab. 3. In the hardware box (in the upper left of the display), select `Storage`. 4. In the upper right part of the display, click the `Add Storage...` link. 5. Ensure that the Disk/LUN Storage Type is selected, then click `Next`. 6. Highlight the vmhba entry that corresponds to the local storage drive, then click `Next`. 7. Select the `Use free space` entry, then click `Next`. 8. Create a Datastore Name (for example, `local_storage`), then click `Next`. 9. Adjust the Maximum file size, if needed, then click `Next`. 10. Verify the proposed disk layout, then click `Finish`. The local VMFS datastore should now be available for use.

Oracle Solaris Known Issues

TABLE 9 Oracle Solaris Known Issues

CR	Description
7157040	**Oracle Solaris 11 Panics at Reboot on a Sun Storage 10 GbE FCoE ExpressModule Converged Network Adapter Configuration**
	Issue: Oracle Solaris 11 has high failure rate of kernel panic at reboot when the host is connected to a Fibre Channel over Ethernet (FCoE) switch with fibre channel storage through a Sun Storage 10 GbE FCoE ExpressModule Converged Network Adapter (SG-XPCIEFCOE2-Q-SR/SG-XPCIEFCOE2-Q-TA) configuration. `"qlge:ql_quiesce+fb ()"` is seen in the call trace.
	Affected Operating System: • Oracle Solaris 11 11/11
	Workaround: A workaround is not available. Although there is a kernel panic at reboot, the system can still boot up successfully.
7009052	**DDR3 DIMMs Displayed as Unknown Type in Oracle Solaris 10**
	Issue: If you use the `prtdiag` command in Oracle Solaris 10, the DDR3 DIMM will be displayed as unknown type. This is purely a display issue with no functional impact.
	Affected Operating Systems: • Oracle Solaris 10 10/09 • Oracle Solaris 10 9/10
	Workaround: A workaround is not yet available. The problem will be resolved in a future Oracle Solaris release.

Oracle Linux, RHEL, and SLES Known Issues

TABLE 10 Oracle Linux, Red Hat Enterprise Linux, and SUSE Linux Enterprise Server Known Issues

CR	Description
7076583	**RHEL 5.6 Fails to Allocate Memory Space When SR-IOV Function Is Enabled on Intel 82576 NIC**
	Issue: To support the SR-IOV function, you must first enable SR-IOV support and ARI support functions in the Advanced Menu of the BIOS Setup Utility options.
	Affected Operating System: • Red Hat Enterprise Linux (RHEL) 5.0 or above
	Workaround: Enable SR-IOV support and ARI support features in the Advanced Menu of the BIOS Setup Utility options.
6940552	**CPU Power-State Cannot Be Capped On Host Reboots If Hard Cap Is Enabled**
	Issue: Oracle ILOM Power Management limits might not be honored when booting in Oracle Linux 5.5 or in Red Hat Enterprise Linux (RHEL) 5.5.
	Affected Operating Systems: • Oracle Linux 5.5 • Red Hat Linux (RHEL) 5.5
	Workaround: Using Oracle ILOM, disable then reenable Power Limiting using the following steps: 1. Select the **Power Management** tab. 2. Select the **Limit** tab 3. Next to the **Power Limiting** option, uncheck Enabled. 4. Click **Save**. 5. Next to the **Power Limiting** option, check Enabled. 6. Click **Save**.

TABLE 10 Oracle Linux, Red Hat Enterprise Linux, and SUSE Linux Enterprise Server Known Issues *(Continued)*

CR	Description
6907462	**SLES 11 Logs Error Messages About Loading EHCA Driver**
	Issue: When using the SUSE Linux Enterprise Server 11 (SLES 11) operating system, if the OFED package group is installed, the system generates benign error messages about loading the Infiniband EHCA driver. The errors are logged because the supported Infiniband IO device does not use the EHCA driver.
	Affected Operating System: SUSE Linux Enterprise Server 11 (SLES 11)
	Workaround: Supported Infiniband devices use the mlx4_core device driver. Ignore the error messages about the EHCA driver or disable attempts to automatically load the EHCA driver by editing the configuration file `/etc/infiniband/openib.conf` to change **`EHCA_LOAD=yes`** to **`EHCA_LOAD=no`**.
6914173	**PCIEHP Hot-Plug Default Driver Is Not Supported by SLES 10 SP3**
	Issue: SUSE Linux Enterprise Server 10 SP3 (SLES 10 SP3) has disabled interrupts on the PCI Express root ports. As a result, pciehp hot-plug does not function properly with default driver options. This can result in USB devices being inadvertently disabled when hot-plug actions are attempted.
	Affected Operating System: • SUSE Linux Enterprise Server 10 SP3 (SLES 10 SP3)
	Workaround: You must load the pciehp driver with the following parameter: `pciehp_poll_mode=`**`1`** For example: `modprobe pciehp pciehp_poll_mode=`**`1`**

TABLE 10 Oracle Linux, Red Hat Enterprise Linux, and SUSE Linux Enterprise Server Known Issues *(Continued)*

CR	Description
6908037	**Infiniband Driver Unable to Use MSI-X Interrupts in SLES 10 SP3**
	Issue: The Infiniband driver mlx4_core in SUSE Linux Enterprise Server 10 SP 3 (SLES 10 SP3) cannot use MSI-X interrupts on systems with a high number of processors (CPUs).
	Affected Operating System: • SUSE Linux Enterprise Server 10 SP3 (SLES 10 SP3)
	Workaround: Load Infiniband driver with MSI-X interrupts disabled, using one of the following methods: • Type the following command to load the driver with MSI-X interrupts disabled: **`modprobe mlx4_core msi_x=0`** • Add the following line to the file `/etc/modprobe.conf.local` so that `mlx4_core` will never use MSI(X) when the driver is loaded: **`options mlx4_core msi_x=0`**
6915768	**During a Reboot of the System, a Kernel Panic Might Occur**
	Issue: During a warm reboot of the system, you might see an intermittent kernel panic `__cpufreq_governor`.
	Affected Operating Systems: • Oracle Linux 5.4 • Red Hat Enterprise Linux (RHEL) 5.4
	Workaround: A patch has been issued to fix this issue. You can download the patch at: `https://bugzilla.redhat.com/attachment.cgi?id=336296&action=diff`

Windows Known Issues

TABLE 11 Windows Known Issues

CR	Description
6914898	**Certain Express Modules Are Not Supported for Hot-Plug Operations**
	Issue: With Windows Server 2008 SP2 and 2008 R2, certain Express Modules are not currently supported for hot-plug operations. The following Express Modules cannot be hot-plugged: • SG-XPCIE2FCGBE-Q-Z - Sun StorageTek Dual 4Gb FC Dual GbE HBA, QLogic • SG-XPCIE2FCGBE-E-Z - Sun StorageTek Dual 4Gb FC Dual GbE HBA, Emulex • SG-XPCIEFCGBE-Q8-Z - StorageTek Dual 8Gb FC Dual GbE HBA, QLogic • SG-XPCIEFCGBE-E8-Z - StorageTek Dual 8Gb FC Dual GbE HBA, Emulex • X7284A-Z - Sun Quad GbE Express Module
	Affected Operating Systems: • Windows Server 2008 SP2, 64-bit • Windows Server 2008 R2, 64-bit
	Workaround: Insert the affected module(s) and reboot the system in order for them to be recognized.
6879304	**System Event Log Warning Messages Are Generated When Power Is Being Limited by Oracle ILOM Power Management**
	Issue: When power is being limited by the Oracle ILOM Power Management feature, Windows Server 2008 R2 operating system will generate warning messages in the System Event Log informing the user that the processor(s) are being restricted. Example Event: `The Speed of Processor xx in group x is being limited by system firmware. The processor has been in this reduced performance state for xxxx seconds since last report.`
	Affected Operating System: • Windows Server 2008 R2
	Workaround: None needed. These are expected events and are not indicative of a problem.

Documentation Updates and Errata

TABLE 12 Documentation Updates and Errata

CR	Description
6977546	**SW 1.0.1 Product Documentation Lists Incorrect BIOS Version**
	Issue: The incorrect BIOS version number (08.04.01) is listed in the Sun Blade X6270 M2 Server Module product documentation for Software Release 1.0.1.
	Workaround: Documentation has been corrected to show 08.02.01.05 as the BIOS version for Software Release 1.0.1 of the Sun Blade X6270 M2 Server Module.
No CR number	**Documented HBA Is Not Yet Available**
	Issue: The following host bus adapter (HBA) is listed as an available option in the *Sun Blade X6270 M2 Server Module Installation Guide for Windows Operating Systems*: • Sun Storage 6 Gb SAS RAID ExpressModule Host Bus Adapter (HBA) (SGX-SAS6-R-EM-Z) The HBA listed above is not yet available in the Sun Blade X6270 M2 Server Module.