



Sun StorEdge™ PCI/PCI-X Dual Ultra320 SCSI Host Adapter Release Notes

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Sun StorEdge PCI/PCI-X Dual Ultra320 SCSI Host Adapter Release Notes

This document contains the latest information about the Sun StorEdge™ PCI/PCI-X Dual Ultra320 SCSI Host Adapter that was not available at the time the *Sun StorEdge PCI/PCI-X Dual Ultra320 SCSI Host Adapter Installation Guide* was published. The RoHS compliant part number for this product is SGXPCI2SCSILM320-Z. The non-RoHS part number is SG-XPCI2SCSI-LM320. Read this document so that you are aware of issues or requirements that can impact the installation and operation of the Sun StorEdge PCI/PCI-X Dual Ultra320 SCSI Host Adapter. The information in these release notes supplements the *Sun StorEdge PCI/PCI-X Dual Ultra320 SCSI Host Adapter Installation Guide*, part number 817-5827.

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New Features In This Release

The SG-(X)PCI2SCSI-LM320 (or SG-(X)PCI2SCSI-LM320-Z RoHS number) host bus adapter (HBA) product now supports Windows and Linux operating system environments besides Solaris (SPARC and X86).

This HBA includes support for:

- Red Hat Enterprise Linux
 - Red Hat Enterprise Linux (RHEL) 3 (x64/AMD64) and (x86/IA32)
 - Red Hat Enterprise Linux (RHEL) 4 (x64/AMD64) and (x86/IA32)
- SuSE Linux Enterprise Server
 - SuSE Linux Enterprise Server (SLES) 8 (x64/AMD64) and (x86/IA32)
 - SuSE Linux Enterprise Server 9 for (x64/AMD64) and (x86/IA32)
- Windows 2000, Windows Server 2003 (x64/AMD64 and x86/IA32) and Windows XP Professional (x64/AMD64 and x86/IA32)

Qualified Platforms

The supported host platforms for this product are:

- Netra™ 20 server
- Netra 120 server
- Netra 240, 440, and 1280 servers
- Netra 1120/1125
- Netra 1400 and 1405 servers
- Sun Blade™ 1000 and 2000 workstations
- Sun Blade 1500 and 2500 workstations
- Sun Java Workstations W1100z and W2100z
- Sun Enterprise™ 220R and 420R servers
- Sun Enterprise 250 and 450 servers
- Sun Fire™ V20z and V40z servers
- Sun Fire V60x and V65x servers
- Sun Fire V120 server
- Sun Fire V210 server
- Sun Fire V240 server
- Sun Fire V250 server
- Sun Fire 280R server
- Sun Fire V440 server
- Sun Fire V480 and V490 servers
- Sun Fire V880 and V890 servers
- Sun Fire 12K, 15K, E20K, and E25K servers
- Sun Fire 4800, 4810, and 6800 servers
- Sun Fire E2900, E4900, and E6900 servers
- Sun Fire V1280 server
- Ultra™ 60 workstation
- Ultra 80 workstation

This product supports the following disk storage systems:

- Sun StorEdge 3310 SCSI Array
- Sun StorEdge 3120 SCSI Array
- Sun StorEdge D2 Array
- Sun StorEdge D240 Media Tray
- Sun StorEdge S1 Array

This product supports the following tape backup systems:

- Sun StorEdge C2 Tape Autoloader
- Sun StorEdge C4 Tape Library
- Sun StorEdge L8 tape autoloader with Sun StorEdge LTO1, LTO2, or SDLT 320 drive
- Sun StorEdge L25/L100 Tape Library with Sun StorEdge LTO1 (HP version), LTO2, SDLT 320, or SDLT 600 drive
- Sun StorEdge L180 Tape Library with LTO 2 SCSI tape drive
- Sun StorEdge L500 Tape Library with LTO 2 SCSI tape drive
- Sun StorEdge L700 Tape Library with LTO 2 SCSI tape drive
- Sun StorEdge DAT 72 desktop tape drive
- Sun StorEdge LTO Gen 2 desktop tape drive
- Sun StorEdge SDLT 320 desktop tape drive
- Sun StorEdge SDLT 600 desktop tape drive

This product supports the following minimum operating systems with the recommended patches:

- Solaris™ 8, 07/03 (PSR3) Operating System (Solaris OS)
- Solaris 9, 12/03 (Update 5) OS
- Solaris 9 x86, 08/03 OS
- Solaris 10 SPARC and x64/x86 OS

Required System Firmware

The following minimum system firmware is required with the respective servers with the Sun StorEdge PCI/PCI-X Dual Ultra320 SCSI Host Adapter:

Server	Minimum System Firmware Required
Sun Fire E6900, 6800, 4900, 48x0, 2900, and V1280	5.18.1
Sun Fire V20z	1.27.11
Sun Fire V40z	2.18.11
Sun Fire V60x	1191
Sun Fire V65x	1191

Qualified Cables

[TABLE 1](#) lists the qualified cables for connecting the Sun StorEdge 3310 SCSI array, Sun StorEdge 3120 SCSI array, and Sun StorEdge D2 Array. [TABLE 2](#) lists the qualified cables for connecting the Sun StorEdge S1 array to the Sun StorEdge PCI/PCI-X Dual Ultra320 SCSI host adapter.

You can order cables using the *marketing* part numbers shown in the tables. You can use the *manufacturing* part numbers in the table to determine whether any already-purchased cables are supported. Do this by comparing the provided numbers against the manufacturing part numbers that are stamped on the cables.

TABLE 1 Qualified Cables for the Sun StorEdge 3310, Sun StorEdge 3120, and Sun StorEdge D2 Arrays

Cable Type and Length	Marketing Part Number	Manufacturing Part Number
SCSI, VHDCI/VHDCI, 0.8 m	X1136A	530-2982-01 or later
SCSI, VHDCI/VHDCI, 1.2 m	X1137A	530-2983-01 or later
SCSI, VHDCI/VHDCI, 2 m	X1138A	530-2538-01 or later
SCSI, VHDCI/VHDCI, 4 m	X3830B	530-2984-01 or later
SCSI, VHDCI/VHDCI, 10 m	X3831B	530-2985-01 or later*

* This cable must have a part number ending with -02 to accommodate the maximum Ultra320 speed.

TABLE 2 Qualified Cables for the Sun StorEdge S1 Array

Cable Type and Length	Marketing Part Number	Manufacturing Part Number*
SCSI, HD-68/VHDCI, 0.8 m	X1132A	530-2452-02
SCSI, HD-68/VHDCI, 2 m	X3832A	530-2453-02
SCSI, HD-68/VHDCI, 4 m	X3830A	530-2454-02
SCSI, HD-68/VHDCI, 10 m	X3831A	530-2455-02

* Cables with part numbers ending with -01 are not supported for use with the Sun StorEdge S1 array.

Downloading and Installing the Patches and Documentation

TABLE 3 lists the web sites from which you can download the required patches and documentation.

TABLE 3 Software and Documentation Download Sites

Software	Download Web Site	Notes
Patches	http://www.sun.com/sunsolve	See “Downloading and Installing Driver Packages and Patches.”
Documentation	http://www.sun.com/products-n-solutions/hardware/docs/Network_Storage_Solutions/Adapters/index.html http://docs.sun.com	The <i>Sun StorEdge PCI/PCI-X Dual Ultra320 SCSI Host Adapter Installation Guide</i> is posted at these sites, and the translated versions of these release notes will be posted at these sites when they become available.

TABLE 4 shows the required patches.

TABLE 4 Patches for Solaris 8, Solaris 9 and Solaris 10 Operating Systems (Task Map)

Patch ID	Description	Installation Procedure
various	The appropriate Solaris Recommended Patch Cluster for the version being used	“To Download and Install the Solaris OS Recommended Patch Cluster” on page 8
<ul style="list-style-type: none"> • 115275-04 or later • 115274-04 or later 	<ul style="list-style-type: none"> • The latest Solaris 8 SPARC MPT driver patch • The latest Solaris 8 SPARC raidctl utility patch 	<ul style="list-style-type: none"> • “To Download and Install Solaris Driver Patch” on page 9 • Same
<ul style="list-style-type: none"> • 115665-07 or later • 115667-03 or later 	<ul style="list-style-type: none"> • The latest Solaris 9 SPARC MPT driver patch • The latest Solaris 9 SPARC raidctl utility patch 	<ul style="list-style-type: none"> • “To Download and Install Solaris Driver Patch” on page 9 • Same
<ul style="list-style-type: none"> • 116481-09 or later • 116667-02 or later 	<ul style="list-style-type: none"> • The latest Solaris 9 x86 MPT driver patch • The latest Solaris 9 x86 raidctl utility patch 	<ul style="list-style-type: none"> • “To Download and Install Solaris Driver Patch” on page 9 • Same
<ul style="list-style-type: none"> • 119850-01 or later • N/A 	<ul style="list-style-type: none"> • The latest Solaris 10 SPARC MPT driver patch • The latest Solaris 10 SPARC raidctl utility patch 	<ul style="list-style-type: none"> • “To Download and Install Solaris Driver Patch” on page 9 • Same
<ul style="list-style-type: none"> • 119851-02 or later 	<ul style="list-style-type: none"> • The latest Solaris 10 x86 MPT driver patch 	<ul style="list-style-type: none"> • “To Download and Install Solaris Driver Patch” on page 9

TABLE 5 shows the utility programs and drivers for Windows 2000/2003 and Linux operating systems

TABLE 5 Windows, Windows XP, and Linux utility programs and drivers

Operating System	Utility Program	Driver	BIOS/Firmware
Windows 2000	lsiutil v1.41	symmpi.sys v1.10.02	5.07.03/1.03.27
Windows 2003	lsiutil v1.41	symmpi.sys v1.10.02	5.07.03/1.03.27
Windows XP Professional	lsiutil v1.41	symmpi.sys v1.10.02	5.07.03/1.03.27
Red Hat Enterprise Linux 3 and SuSE Linux Enterprise Server 8	lsiutil v1.41	mptlinux-2.05.23	5.07.03/1.03.27
Red Hat Enterprise Linux 4 and SuSE Linux Enterprise Server 9	lsiutil v1.41	mptlinux v3.02.57	5.07.03/1.03.27

▼ To Download and Install the Solaris OS Recommended Patch Cluster

1. Log into the host.
2. In a browser, go to www.sun.com/sunsolve.
3. Under SunSolveSM Patch Contents, click Patch Portal.
4. Under Downloads and under Recommended and Security Patches, click Recommended and Security Patches.
5. Read the SOFTWARE LICENSE AGREEMENT and click the Agree button.
6. In the Recommended & Security Patch Clusters for Solaris table, find Solaris 8, Solaris 9, or Solaris 10 in the OS column, and click the appropriate View Readme in the Clusters column.
7. Print or save the # CLUSTER_README from the browser window.
8. Click the browser's Back button to return to the previous page.
9. In the Solaris 8, Solaris 9, or Solaris 10 OS row, click HTTP or FTP (as desired) in the Clusters column.

10. In the Save As dialog box, enter a destination directory for the patch cluster, and click the OK button.
11. Follow the procedure in the # CLUSTER_README to install the patches.

▼ To Download and Install Solaris Driver Patch

1. Log into the host.
2. In a browser, go to www.sun.com/sunsolve.
3. Under SunSolve Patch Contents, click Patch Portal.
4. Under PatchFinder, enter the patch numbers from table 4 for your specific Solaris release, and press the Find Patch button.
5. Print or save the patch instructions from the browser window.
6. Click either the HTTP or FTP link in [Download Patch (*nnnn,nnnn* bytes) HTTP FTP].
7. In the Save As dialog box, enter a destination directory for the patch, and click the OK button.

▼ To Download and Install the Driver (Linux users)

Consult the Sun hardware platform document to verify which Linux releases are supported on your specific host platform.

1. Log into the host.
2. In a browser, go to www.lsillogic.com/support/sun.
3. Click to select SG-(X)PCI2SCSI-LM320 or SGXPCI2SCSILM320-Z.
4. Click to select and download the specific Linux driver that is supported by the Linux release on your hardware platform.
5. Click to select and download the corresponding Readme for the Linux driver and follow the instructions in the Readme to complete the driver installation.

▼ To Download the Firmware and Update (Linux users)

1. Log into the host.
2. In a browser, go to www.lsillogic.com/support/sun.
3. Click to select SG-(X)PCI2SCSI-LM320 or SGXPCI2SCSILM320-Z.
4. Click to select "Linux" under the "Utilities" heading to download the Linux utility program, `lsiutil`.
5. Click and select 'FW: 1.03.27 BIOS: 5.07.03' under the 'Firmware' heading to download the firmware zip file.
6. Unzip the firmware file and follow the instruction in the Readme of the utility, `lsiutil`, to update the firmware.

▼ To Download and Install the Driver (Windows 2000/2003/XP users)

Consult the Sun hardware platform document to verify which Windows releases are supported on your specific host platform.

1. Log into the host.
2. In a browser, go to www.lsillogic.com/support/sun.
3. Click to select SG-(X)PCI2SCSI-LM320 or SGXPCI2SCSILM320-Z.
4. Click to select and download the specific Windows driver that is supported by the Windows release on your hardware platform.
5. Click to select and download the corresponding Readme for the Windows driver and follow the instructions in the Readme to complete the driver installation.

▼ To Download Firmware and Utility Program to Update the Firmware (Windows 2000/2003/XP users)

1. Log into the host.
2. In a browser, go to www.lsillogic.com/support/sun.

3. Click to select SG-(X)PCI2SCSI-LM320 or SGXPCI2SCSILM320-Z.
4. Click to select "Windows" under the "Utilities" heading to download the Windows utility program, `lsiutil`, and the corresponding Readme.
5. Click and select 'FW: 1.03.27 BIOS: 5.07.03' under the 'Firmware' heading to download the firmware zip file.
6. Unzip the firmware file.
7. Follow the instruction in the Readme of the utility, `lsiutil`, to update the firmware.

Known Issue

In the *Sun StorEdge PCI/PCI-X Dual Ultra320 SCSI Host Adapter Installation Guide*, 817-5827-xx, the following sections are not valid for a Solaris 9 x86 environment:

- “To Test the Installation Using the `probe-scsi-all` Command” on page 8
- “To Test the Installation With the SunVTS Software” on page 9

You must use the `format` command to verify the installation of the Sun StorEdge PCI/PCI-X Dual Ultra320 SCSI Host Adapter before attempting to use it in a Solaris 10 x86 or Solaris 9 x86 environment.

▼ To Verify the Installation of the Sun StorEdge PCI/PCI-X Dual Ultra320 SCSI Host Adapter

1. Become a root user and type the `format` command.

```
# format
Searching for disks...done
AVAILABLE DISK SELECTIONS:
  0. c1t0d0 <DEFAULT cyl 24611 alt 2 hd 27 sec 107>
    /pci@0,0/pci1022,7450@a/pci17c2,10@4/sd@0,0
  1. c1t1d0 <DEFAULT cyl 24810 alt 2 hd 27 sec 107>
    /pci@0,0/pci1022,7450@a/pci17c2,10@4/sd@1,0
  2. c3t8d0 <DEFAULT cyl 24619 alt 2 hd 27 sec 107>
    /pci@0,0/pci1022,7450@b/pci1000,10c0@1,1/sd@8,0
  3. c3t9d0 <DEFAULT cyl 24619 alt 2 hd 27 sec 107>
    /pci@0,0/pci1022,7450@b/pci1000,10c0@1,1/sd@9,0
  4. c3t10d0 <DEFAULT cyl 24619 alt 2 hd 27 sec 107>
    /pci@0,0/pci1022,7450@b/pci1000,10c0@1,1/sd@a,0
  5. c3t11d0 <DEFAULT cyl 24619 alt 2 hd 27 sec 107>
    /pci@0,0/pci1022,7450@b/pci1000,10c0@1,1/sd@b,0
  6. c3t12d0 <DEFAULT cyl 24619 alt 2 hd 27 sec 107>
    /pci@0,0/pci1022,7450@b/pci1000,10c0@1,1/sd@c,0
  7. c3t13d0 <DEFAULT cyl 24619 alt 2 hd 27 sec 107>
    /pci@0,0/pci1022,7450@b/pci1000,10c0@1,1/sd@d,0
Specify disk (enter its number):
```

2. On the same screen, type the number of the disk drive that is attached to the host adapter card you just installed and press Enter.

```
# format
Searching for disks...done
AVAILABLE DISK SELECTIONS:
  0. c1t0d0 <DEFAULT cyl 24611 alt 2 hd 27 sec 107>
    /pci@0,0/pci1022,7450@a/pci17c2,10@4/sd@0,0
  1. c1t1d0 <DEFAULT cyl 24810 alt 2 hd 27 sec 107>
    /pci@0,0/pci1022,7450@a/pci17c2,10@4/sd@1,0
  2. c3t8d0 <DEFAULT cyl 24619 alt 2 hd 27 sec 107>
    /pci@0,0/pci1022,7450@b/pci1000,10c0@1,1/sd@8,0
  3. c3t9d0 <DEFAULT cyl 24619 alt 2 hd 27 sec 107>
    /pci@0,0/pci1022,7450@b/pci1000,10c0@1,1/sd@9,0
  4. c3t10d0 <DEFAULT cyl 24619 alt 2 hd 27 sec 107>
    /pci@0,0/pci1022,7450@b/pci1000,10c0@1,1/sd@a,0
  5. c3t11d0 <DEFAULT cyl 24619 alt 2 hd 27 sec 107>
    /pci@0,0/pci1022,7450@b/pci1000,10c0@1,1/sd@b,0
  6. c3t12d0 <DEFAULT cyl 24619 alt 2 hd 27 sec 107>
    /pci@0,0/pci1022,7450@b/pci1000,10c0@1,1/sd@c,0
  7. c3t13d0 <DEFAULT cyl 24619 alt 2 hd 27 sec 107>
    /pci@0,0/pci1022,7450@b/pci1000,10c0@1,1/sd@d,0
Specify disk (enter its number): 2
selecting c3t8d0
[disk formatted]
```

The Format menu is displayed.

3. Type **analyze** to select the type of test.

```
FORMAT MENU:
  disk      - select a disk
  type      - select (define) a disk type
  partition - select (define) a partition table
  current   - describe the current disk
  format    - format and analyze the disk
  fdisk     - run the fdisk program
  repair    - repair a defective sector
  label     - write label to the disk
  analyze   - surface analysis
  defect    - defect list management
  backup    - search for backup labels
  verify    - read and display labels
  save      - save new disk/partition definitions
  inquiry   - show vendor, product and revision
  scsi      - independent SCSI mode selects
  cache     - enable, disable or query SCSI disk cache
  volname   - set 8-character volume name
  !<cmd>    - execute <cmd>, then return
  quit
format> analyze
```

4. Type **read** to further define the type of test, and then **yes** to continue.

```
ANALYZE MENU:
  read      - read only test (doesn't harm SunOS)
  refresh   - read then write (doesn't harm data)
  test      - pattern testing (doesn't harm data)
  write     - write then read (corrupts data)
  compare   - write, read, compare (corrupts data)
  purge     - write, read, write (corrupts data)
  verify    - write entire disk, then verify (corrupts data)
  print     - display data buffer
  setup     - set analysis parameters
  config    - show analysis parameters
  !<cmd>    - execute <cmd> , then return
  quit
analyze> read
Ready to analyze (won't harm SunOS). This takes a long time,
but is interruptable with CTRL-C. Continue? y
pass 1

Total of 0 defective blocks repaired.
analyze>
```


5. **Verify that no error occurred** (Total of 0 defective blocks repaired).

6. **Issue two quit commands to exit the test and the Format menu.**

```
analyze> q
FORMAT MENU:
    disk          - select a disk
    type          - select (define) a disk type
    partition     - select (define) a partition table
    current       - describe the current disk
    format        - format and analyze the disk
    fdisk         - run the fdisk program
    repair        - repair a defective sector
    label         - write label to the disk
    analyze       - surface analysis
    defect        - defect list management
    backup        - search for backup labels
    verify        - read and display labels
    save          - save new disk/partition definitions
    inquiry       - show vendor, product and revision
    scsi          - independent SCSI mode selects
    cache         - enable, disable or query SCSI disk cache
    volname       - set 8-character volume name
    !<cmd>        - execute <cmd>, then return
    quit
format> q
#
```

Your Sun StorEdge PCI/PCI-X Dual Ultra320 SCSI Host Adapter is ready for use.

Known Limitations



Caution – Upgrading some older disk drive firmware in a Sun StorEdge 3120 SCSI Array and Sun StorEdge D240 Media Tray connected to a Sun StorEdge PCI/PCI-X Dual Ultra320 SCSI Host Adapter might fail if the older disk firmware does not correctly handle the Ultra320 SCSI protocol. If this happens, create a `/kernel/drv/mpt.conf` configuration file and insert the following line into it. This limits the Sun StorEdge PCI/PCI-X Dual Ultra320 SCSI Host Adapter to the Ultra160 SCSI protocol.

```
scsi-options=0x1ff8;
```

Then reboot the system and perform the disk firmware upgrade. After completing the upgrade, remove the inserted line from the `/kernel/drv/mpt.conf` file and reboot the system.



Caution – The Sun StorEdge 3310 SCSI array is only capable of running at the Ultra160 SCSI speed. To limit the 3310 SCSI array to the Ultra160 SCSI speed and to support up to 32 LUNS, create a file called `/kernel/drv/mpt.conf` with the following lines in it:

```
device-type-scsi-options-list =  
    "SUN      StorEdge 3310", "SE3310-scsi-options";  
SE3310-scsi-options = 0x41ff8;
```

Then reboot the system.

Bugs

HBA does not recognize LUN numbers greater than seven

4994818

With OpenBoot™ PROM (OBP) commands, the Sun StorEdge PCI/PCI-X Dual Ultra320 SCSI Host Adapter does not recognize any RAID LUN number greater than seven.

Workaround: Do not create a boot volume with a LUN number greater than seven.

BIOS displays only eight LUNs

5053348

If more than eight LUNs are created in an array during system booting, the BIOS only displays eight LUNs (LUN 0 through 7).

Workaround: Do not create a boot volume with a LUN number greater than seven.

▼ To Boot From an Internal or External Disk Drive

1. Initiate a system boot.

During system booting the BIOS initialization screen is displayed:

Press Ctrl-C to start LSI Logic Configuration Utility

2. Immediately press Control-C.

The LSI Logic MPT SCSI Setup Utility menu is displayed.

LSI Logic MPT SCSI Setup Utility Version MPTBIOS-5.07.03									<i>Description</i>
<Boot Adapter List> <Global Properties>									<i>(Not part of screen)</i>
LSI Logic Host Bus Adapters									
Adapter	PCI <i>Bus</i>	Dev/ <i>Func</i>	Port <i>number</i>	IRQ	NVM	Boot <i>Order</i>	LSI <i>Control</i>	PCI <i>Slot</i>	SCSI <i>Chan</i>
<1020/1030>	3	51	2000	9	Yes	0	Enabled	J3	B
<1020/1030>	3	50	2400	9	Yes	1	Enabled	J3	A
<1020/1030>	3	49	2800	9	Yes	2	Enabled	J2	B
<1020/1030>	3	48	3000	9	Yes	3	Enabled	J2	A
<1020/1030>	3	41	3400	9	Yes		Enabled	J1	B
<1020/1030>	3	40	3800	9	Yes		Enabled	J1	A

Note – In this example there are three Sun StorEdge PCI/PCI-X Dual Ultra320 SCSI Host Adapters installed in PCI slots J1, J2, and J3, and the one in PCI slot J3 uses Channel B (indicated by Dev/Func = 51) to connect to the storage device that contains the external boot disk.

3. Press F2 as required to highlight <Boot Adapter List> in the second line of the menu, then press Enter.

The following information is displayed:

```

Boot Adapter List
Insert = Add an adapter      Delete = Remove an adapter
Adapter      PCI      Dev/      Boot      Current      Next
              Bus      Func      Order      Status      Boot
1020/1030    3        51      [0]      On          [On]
1020/1030    3        50      [1]      On          [On]
1020/1030    3        49      [2]      On          [On]
1020/1030    3        48      [3]      On          [On]

Hit Insert to select an adapter from this list:
<1020/1030    3        51>
<1020/1030    3        50>
<1020/1030    3        49>
<1020/1030    3        48>
<1020/1030    3        41>
<1020/1030    3        40>

```

4. Use the arrow keys to highlight the HBAs in the Next Boot column and disable them (except the selected HBA that has external boot disk attached) by using the -/+ key.

```

Boot Adapter List
Insert = Add an adapter      Delete = Remove an adapter
Adapter      PCI      Dev/      Boot      Current      Next
              Bus      Func      Order      Status      Boot
1020/1030    3        51      [0]      On          [On]
1020/1030    3        50      [1]      On          [Off]
1020/1030    3        49      [2]      On          [Off]
1020/1030    3        48      [3]      On          [Off]

Hit Insert to select an adapter from this list:
<1020/1030    3        51>
<1020/1030    3        50>
<1020/1030    3        49>
<1020/1030    3        48>
<1020/1030    3        41>
<1020/1030    3        40>

```

5. Press the Escape key.

The following information is displayed:

```
Boot property changes have been made
<Cancel Exit>
Exit the Configuration Utility
<Save Changes then exit this menu>
<Discard changes then exit this menu>
```

6. Use the arrow key to highlight <Save Changes then exit this menu> and press Enter.

The LSI Logic MPT SCSI Setup Utility menu is displayed.

```
LSI Logic MPT SCSI Setup Utility Version MPTBIOS-5.07.03
<Boot Adapter List>      <Global Properties>
LSI Logic Host Bus Adapters
```

Adapter	PCI Bus	Dev/ Func	Port number	IRQ	NVM	Boot Order	LSI Control
<1020/1030>	3	51	2000	9	Yes	0	Enabled
<1020/1030>	3	50	2400	9	Yes	1	Disabled
<1020/1030>	3	49	2800	9	Yes	2	Disabled
<1020/1030>	3	48	3000	9	Yes	3	Disabled
<1020/1030>	3	41	3400	9	Yes		Disabled
<1020/1030>	3	40	3800	9	Yes		Disabled

7. To eliminate any disk drives attached to Sun StorEdge PCI/PCI-X Dual Ultra320 SCSI Host Adapter from being used as the boot disk, use the arrow key to highlight the HBA that has the external boot disk attached, then press Enter.

The following information is displayed:

```
Adapter Properties
Adapter      PCI    Dev/
              Bus    Func
1020/1030    3      51
<Device Properties>
Host SCSI ID           [7]
SCSI Bus Scan Order    [Low to High (0..Max)]
Removable Media Support [None]
CHS Mapping             [SCSI Plug and Play Mapping]
Spinup Delay (Secs)     [2]
Secondary Cluster Server [No]
Termination Control     [Auto]
<Restore Defaults>
```

8. Ensure that <Device Properties> is highlighted, then and press Enter.

The following information is displayed:

Device Properties							
SCSI ID	Device Identifier		MB/Sec	MT/Sec	Data Width	Scan ID	Scan LUN's > 0
0	SEAGATE	ST336607LSUN36G	320	320	16	Yes	Yes
1	SEAGATE	ST336607LSUN36G	320	320	16	Yes	Yes
2	SEAGATE	ST336607LSUN36G	320	320	16	Yes	Yes
3	SEAGATE	ST336607LSUN36G	320	320	16	Yes	Yes
4	SEAGATE	ST336607LSUN36G	320	320	16	Yes	Yes
5	SEAGATE	ST336607LSUN36G	320	320	16	Yes	Yes
6	SEAGATE	ST336607LSUN36G	320	320	16	Yes	Yes
7	1020/1030			320	16	Yes	Yes
8	SEAGATE	ST336607LSUN36G	320	320	16	Yes	Yes
9	SEAGATE	ST336607LSUN36G	320	320	16	Yes	Yes
10	SEAGATE	ST336607LSUN36G	320	320	16	Yes	Yes
11	SEAGATE	ST336607LSUN36G	320	320	16	Yes	Yes
12	SEAGATE	ST336607LSUN36G	320	320	16	Yes	Yes

9. Use the arrow key to highlight the disk drives in the Scan ID column and use the +/- key to change them from Yes to No. Do not change the boot disk.

Device Properties							
SCSI ID	Device Identifier		MB/Sec	MT/Sec	Data Width	Scan ID	Scan LUN's > 0
0	SEAGATE	ST336607LSUN36G	320	320	16	No	Yes
1	SEAGATE	ST336607LSUN36G	320	320	16	No	Yes
2	SEAGATE	ST336607LSUN36G	320	320	16	No	Yes
3	SEAGATE	ST336607LSUN36G	320	320	16	No	Yes
4	SEAGATE	ST336607LSUN36G	320	320	16	No	Yes
5	SEAGATE	ST336607LSUN36G	320	320	16	No	Yes
6	SEAGATE	ST336607LSUN36G	320	320	16	No	Yes
7	1020/1030			320	16	Yes	Yes
8	SEAGATE	ST336607LSUN36G	320	320	16	Yes	Yes
9	SEAGATE	ST336607LSUN36G	320	320	16	No	Yes
10	SEAGATE	ST336607LSUN36G	320	320	16	No	Yes
11	SEAGATE	ST336607LSUN36G	320	320	16	No	Yes
12	SEAGATE	ST336607LSUN36G	320	320	16	No	Yes

Note – In the example above, SCSI ID 7 is the HBA with the external boot disk attached, and SCSI ID 8 is the external boot disk.

10. Press the Escape key twice.

The following information is displayed:

```
Adapter and/or device property changes have been made
<Cancel Exit>
Exit the Configuration Utility
<Save Changes then exit this menu>
<Discard changes then exit this menu>
```

11. Use the arrow key to highlight <Save Changes then exit this menu> and press Enter.

12. Press the Escape key.

13. Use the arrow key to highlight Exit the Configuration Utility and press Enter.

```
Saving global properties...
Global properties saved. Hit any key to reboot.
```

14. Press any key to reboot the system.

Resolved Issues and Bugs

[TABLE 6](#) lists the bugs that were documented in the previous release notes, which have since been resolved.

TABLE 6 Resolved Bugs

Bug ID	Title
5010772	Host Adapter Fails to Initialize
5033252	raidctl utility Information Outdated
5053340	Boot Process can fail if too many drives connected to server

Service Contact Information

If you need help installing or using this product in the United States, call 1-800-USA-4SUN, or go to:

<http://www.sun.com/service/contacting/index.html>

