



SunVTS™ 5.1 Patch Set 5+ Release Notes

Sun Microsystems, Inc.
www.sun.com

Part No. 819-1194-11
November 2004 Revision A

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SunVTS 5.1 Patch Set 5+ Release Notes

SunVTS 5.1 PS5+ packages are intended for UltraSPARC IIIi processor based systems only.

Open Issues

SunVTS 5.1 Patch Set 5+ (PS5+) Issues

The following issues apply to the SunVTS™ 5.1 PS5+ product.

New Features and Tests for This Release

The SunVTS 5.1 PS5+ software is compatible with the Solaris 8 2/02, Solaris 8 HW 12/02, Solaris 8 HW 5/03, Solaris 8 HW 7/03, Solaris 8 2/04, Solaris 9, Solaris 9 9/02, Solaris 9 12/02, Solaris 9 4/03, Solaris 9 8/03, Solaris 9 12/03, and Solaris 9 4/04 operating environments. The following new features and tests are added to the SunVTS 5.1 PS5+ release:

- JNI 2GB FC HBA Test (`jnifctest`) – Tests the functionality of the JNI FC HBA.

Note – The S24 Frame Buffer Test (`tcxctest`), the Level 2 Cache Test (`l2cachetest`), and the Cache Consistency Test (`mpconstest`) will be discontinued in a future release of SunVTS.

Note – The SunPCi™ II Test (`sunpci2test`) tests both the SunPCi II and SunPCi III cards in SunVTS 5.1 PS2.

Note – All new features, tests, and test enhancements that are released in SunVTS 5.1 PS5+ are documented in the *SunVTS 5.1 Patch Set 5 Documentation Supplement* (817-4350-10). This document is included on the Solaris Software Supplement CD and is available at: <http://docs.sun.com>

Refer to the *SunVTS 5.1 Patch Set 5 Documentation Supplement* for details about the new features and tests offered in this release.

Note – The name of the Remote System Control test (`rsctest`) has been changed to System Service Processor test (`ssptest`) in SunVTS 5.1 PS1. The reason for this change is that `ssptest` tests the Advanced Lights-Out Management (ALOM) hardware in addition to both Remote System Control 1.0 and 2.0 hardware.

Note – The SPARCstorage® Array Controller Test (`plntest`) is discontinued in Solaris 9 8/03.

Online Help Documentation

The online help documentation available with the SunVTS 5.1 software includes a chapter describing the RAM test (`ramtest`). This test is supported only in SunVTS 5.1 Patch Set 4 (PS4) onward.

SunVTS 5.1 Test Reference Manual Errata

This section lists corrections to errors in the Supported Test Modes tables of the following test chapters in the SunVTS 5.1 Test Reference Manual:

- Compact Disk Test (`cdtest`)
 - Online test mode is supported in SunVTS 5.1.
- CPU Test (`cputest`)
 - Online test mode is supported in SunVTS 5.1.
- Disk and Floppy Drives Test (`disktest`)
 - Online test mode is supported in SunVTS 5.1.
- DVD Test (`dvdtest`)

- Online test mode is supported in SunVTS 5.1.
- ECP 1284 Parallel Port Printer Test (`ecpptest`)
 - Online test mode is not supported in SunVTS 5.1.
 - Sun StorEdge A5x00 Test (`enatest`)
 - Functional and Online test modes are supported in SunVTS 5.1.
 - Sun StorEdge 1000 Enclosure Test (`enctest`)
 - Online test mode is supported in SunVTS 5.1.
 - Environmental Test (`env2test`)
 - Online and Exclusive test modes are not supported in SunVTS 5.1.
 - Environmental Test (`env4test`)
 - Connection test mode is supported in SunVTS 5.1
 - Floating Point Unit Test (`fputest`)
 - Online and Exclusive test modes are supported in SunVTS 5.1.
 - Cache Consistency Test (`mpconstest`)
 - Only Exclusive test mode is supported in SunVTS 5.1.
 - Multiprocessor Test (`mpctest`)
 - Only Exclusive test mode is supported in SunVTS 5.1.
 - Qlogic 2202 Board Test (`qlctest`)
 - Only Exclusive and Connection test modes are supported in SunVTS 5.1.
 - Serial Ports Test (`sptest`)
 - Online test mode is not supported in SunVTS 5.1.
 - System Service Processor Test (`ssptest`)
 - Exclusive test mode is supported in SunVTS 5.1.
 - Functional test mode is not supported in SunVTS 5.1
 - SunHSI Board Test (`sunlink`)
 - Online test mode is not supported in SunVTS 5.1.
 - System Test (`systemtest`)
 - Connection test mode is not supported in SunVTS 5.1.
 - Tape Drive Test (`tapetest`)
 - Online test mode is not supported in SunVTS 5.1.
 - S24 Frame Buffer Test (`tcxtest`)
 - Connection test mode is supported in SunVTS 5.1.

SunVTS 5.1 User's Guide Errata

In Appendix A, SunVTS Window and Dialog Box Reference, Table A-11 indicates the incorrect default value of 0 (zero) for the Max Errors field of the example systest Test Parameter Options dialog box in Figure A-11. The correct default value of the Max Errors field of the systest Test Parameter Options dialog box is 1 (one) as indicated in Figure A-11.

Also in Appendix A, Table A-13 indicates the incorrect default value of 0 (zero) for the Max System Errors field of the example systest Threshold Options dialog box in Figure A-13. The correct default value of the Max System Errors field of the systest Threshold Options dialog box is 1 (one) as indicated in Figure A-13.

Possible Installation Issues

You might encounter an installation problem when you attempt to install SunVTS with an installation program other than the `pkgadd` command as described in the following subsections.

If SunVTS 5.1 software is installed in the default `/opt` directory, you cannot install a subsequent SunVTS 5.1 Patch Set release in a different directory on the same system. When this duplicate installation is attempted with `pkgadd`, the following error message occurs:

```
pkgadd: ERROR: SUNWvts is already installed at /opt. Cannot create
a duplicate installation.
```

The reason for this error is that the base package revision is the same for both SunVTS 5.1 and any subsequent SunVTS 5.1 Patch Set release. When a SunVTS 5.1 Patch Set release is installed in the default `/opt` directory which already has SunVTS 5.1 software installed, the installation completes successfully with the following warning message:

```
This appears to be an attempt to install the same architecture and
version of a package which is already installed. This
installation will attempt to overwrite this package.
```

Installation Package Dependency Issue for Solaris 8 (RFE ID 4823716)

From SunVTS 5.1, the SunVTS software depends on XML packages that are not included with the Solaris 8 2/02 distribution. For Solaris 9, all of the prerequisite packages are installed with the End User Solaris Software Group as a minimum.

Note – The additional XML packages are available on the Solaris 8 HW 12/02 through Solaris 8 2/04 Software Supplement CD-ROMs and not on the Solaris 8 2/02 Software Supplement CD-ROM. Although SunVTS 5.1 installation is supported on Solaris 8 2/02, the XML packages are not included in the Solaris 8 2/02 distribution.

You may install SunVTS 5.1 on Solaris 8 2/02, Solaris 8 HW 12/02, Solaris 8 HW 5/03, Solaris 8 HW 7/03, or Solaris 8 2/04. If you choose to install SunVTS 5.1 or later on any of these releases, you must separately install the required XML packages (SUNWlxml[32-bit] and SUNWlxml[64-bit]) from either the Solaris 8 HW 12/02, Solaris 8 HW 5/03, Solaris 8 HW 7/03, or Solaris 8 2/04 Software Supplement CD-ROM.

Note – SunVTS 4.6, which is delivered on the Solaris 8 2/02 Software Supplement CD-ROM, does not have the XML packages dependency and is supported on Solaris 8 2/02. SunVTS 5.1 is also supported on Solaris 8 2/02 if the XML packages are installed from the Solaris 8 HW 12/02 through Solaris 8 2/04 Software Supplement CD-ROM.

For Solaris 8 releases:

1. Install the minimum End User Solaris Software Group.
 2. Install the XML packages SUNWlxml(32 bit) and SUNWlxml(64 bit) from either the Solaris 8 HW 12/02, Solaris 8 HW 5/03, Solaris 8 HW 7/03, or Solaris 8 2/04 Software Supplement CD-ROM.
-

Note – These XML packages are not available in the Solaris 8 2/02 distribution.

3. Install SUNWzlib(32 bit) and SUNWzlib(64 bit) packages from the Entire Solaris Software Group from either the Solaris 8 2/02, Solaris 8 HW 12/02, Solaris 8 HW 5/03, Solaris 8 HW 7/03, or Solaris 8 2/04 Software CD-ROM.
-

Note – The XML packages depend on the SUNWzlib(32 bit) and SUNWzlib(64 bit) packages which are not part of the End User Solaris Software Group for Solaris 8 2/02, Solaris 8 HW 12/02, Solaris 8 HW 5/03, Solaris 8 HW 7/03, or Solaris 8 2/04.

4. Install the optional SUNWcpc(x)/SUNWcpcu(x) packages only if you want to enable displaying certain performance counters for certain CPU and memory tests. Otherwise, these packages need not be installed.

The SUNWcpc(x)/SUNWcpcu(x) packages are included in the Entire Solaris Software Group for Solaris 8 2/02, Solaris 8 HW 12/02, Solaris 8 HW 5/03, Solaris 8 HW 7/03, and Solaris 8 2/04. These packages are not included in the End User Solaris Software Group for Solaris 8 2/02, Solaris 8 HW 12/02, Solaris 8 HW 5/03, Solaris 8 HW 7/03, nor Solaris 8 2/04.

To install SunVTS for Solaris 9 and later releases:

1. Install the End User Solaris Software Group (or any software group).

The XML packages (SUNWlxml[32-bit] and SUNWlxmlx[64-bit]) and the SUNWzlib packages (SUNWzlib[32 bit] and SUNWzlibx[64 bit]) are part of the End User Solaris Software Group (and Entire Solaris Software Groups) for Solaris 9 releases.

2. Install the optional SUNWcpc(x)/SUNWcpcu(x) packages only if you want to enable displaying certain performance counters for certain CPU and memory tests. Otherwise, these packages need not be installed.

The SUNWcpc(x)/SUNWcpcu(x) packages are part of the Entire Solaris Software Group and not the End User Solaris Software Group.

Installation Issue:

32-bit Only Systems and Web Start 2.0 (Bug ID 4257539)

Web Start 2.0 may not install SunVTS on systems that do not have the Solaris 64-bit environment installed. Web Start 2.0 removes the SunVTS 32-bit packages when the SunVTS 64-bit packages cause the installation to suspend.

Workaround: Use the `pkgadd` command to install the 32-bit SunVTS packages as described in the *SunVTS 5.1 User's Guide*.

Installation Issue:

Security and Web Start 2.0 (Bug ID 4362563)

When you install SunVTS using Web Start 2.0, you are not prompted to enable the Sun Enterprise Authentication Mechanism™ (SEAM) Kerberos v5, SunVTS security feature. The installation defaults in a way that installs SunVTS without this high level of security. If you do not want the high-level security, there is no problem.

Workaround: To enable the high-level SEAM security, use the `pkgadd` command to install SunVTS packages as described in the *SunVTS 5.1 User's Guide*.

Installation Issue:

The Installation Directory With Web Start 2.0 Is Not User-Definable (Bug ID 4243921)

When you attempt to install SunVTS using Web Start 2.0, you are unable to change the directory where SunVTS is installed. SunVTS will be installed in /opt.

Workaround: Use the `pkgadd -a none` command to install SunVTS in the directory of your choice as described in the *SunVTS 5.1 User's Guide*.

Installation Recommendation:

Install and Uninstall Using the Same Program

Use the same tool or utility for installation and removal of the SunVTS software. If you use `pkgadd` for installation, use `pkgrm` to uninstall; if you use Web Start for installation, use the Product Registry to uninstall.

Workaround: None.

Possible Runtime Issues

Patch for Testing CPUs on Sun Fire E15K Systems

When performing the following SunVTS tests on Sun Fire E15K systems with 72 UltraSPARC IV processors (144 CPU IDs), the following issues might occur:

- `systest` - A Bus Error (core dumped) error might occur (Bug ID 4981458)
- `mpctest` - The test could hang (Bug ID 4982924)
- `mpconstest` - The test could fail because of too many CPU IDs (Bug ID 4982944)
- `cmttest` - The test times out (Bug ID 4982948)
- `cmttest` - The test fails (Bug ID 4981014)

Workaround: Look for the latest version of Patch ID 116042 at:

<http://sunsolve.sun.com>

Using `pfbtest` on a System With Two or More XVR-100 Graphics Cards (Bug ID 6219294)

When running SunVTS on a system containing three graphics cards with two or more XVR-100 graphics cards, the `pfbtest` may fail with the error message "X connection broken" displayed on the console.

Workaround: The group concurrency for the Graphics Group must be set to 1. To do so, right-click on the Graphics test field, select "Schedule Options", and set the "Group Concurrency" to 1.

Using gfbtest (Bug ID 5108402)

The gfbtest cliptrap test (Screen checksum) could fail with a message similar to the following.

```
09/28/04 15:53:41 ctech232 SunVTS5.1ps5: VTSID 6437 gfbtest.ERROR
fbs/gfb0: Clip Trap Test (Screen checksum) error:
Error in (R) plane, Total x/col errors = 88, Total y/row errors = 85
First x/col checksum error at x = 293, Exp = 0x00027aad, Act =
0x00027aae
First y/row checksum error at y = 293, Exp = 0x00029b55, Act =
0x00029b56
Probable_Cause(s): <Faulty FBC>
                   <Faulty frame buffer memory.>
Recommended_Action(s): <If the problem persists, contact your Sun
Service provider.>
09/28/04 15:53:41 ctech232 SunVTS5.1ps5: VTSID 7012 vtsk.INFO :
*Failed test*
gfb0(gfbtest)                passes: 0  errors: 1
```

Workaround: None.

Using audiotest (Bug ID 6180940)

audiotest could fail with an "internal codec error" on Sun Blade 1500 and 2500. The errors could occur when performing functional testing after performing exclusive testing.

Workaround: This issue occurs only if a previous run of cpupmtest is aborted in such a manner that the CPU speed is not fully restored to the full speed. In this case, a system reboot will restore the speed back to the proper value. This is a corner case scenario that will most likely not be encountered in average circumstances.

qlctest Internal Loopback Failure (Bug ID 4704300)

The qlctest 10-bit/1-bit internal loopback subtests might fail when performed on Sun Fire V880 product line platforms. This problem is fixed in the latest SAN Foundation software.

Workaround: Install the Sun StorEdge SAN Foundation Software 4.2 or later from:
<http://www.sun.com/storage/san/>

Using sutest (Bug ID 4995795)

sutest might fail immediately.

Workaround: None.

Adding Boards to Sun Fire 15K Systems (Bug ID 4959606)

On Sun Fire 15K systems, adding new boards might cause some of the processor and memory related tests to perform ineffectively. Specifically, `cmttest` might fail to recognize the CMT processors on the new board. Similar failures might also occur in `l2sramtest`, `l1dcachetest`, `dtlbttest`, `ramtest`, `bustest`, `mpptest`, and `fptest`.

Workaround: Reboot the system after adding a new board.

pfbttest Fails When Used in the Gnome Desktop Environment (Bug ID 4938281)

`pfbttest` might fail when performed in the Gnome desktop environment on a Sun XVR-100 graphics accelerator if the test is performed in the default console window.

This failure does not occur in the Solaris 8 2/02 and Solaris 8 HW 3/03 operating environments. If this failure occurs, you see an error message similar to the following:

```
pfb3(pfbttest)                passes: 26 errors: 12
```

Workaround: None.

Using ecpptest (Bug ID 4482992)

An `ecpp`/parallel port driver issue might cause `ecpptest` to fail. The failure rate is three out of 130 machines; the time to fail is about 10 hours.

Note – This driver issue exists only in Solaris 8 software.

Workaround: None.

Using sutest and disktest Simultaneously (Bug ID 4858028)

Sun Blade 100 and 150 systems with SunVTS can produce data corruption errors when the serial port controller (southbridge) is also handling other heavy traffic such as data access from and to the IDE hard disk.

With SunVTS simultaneously running `sutest` and `disktest` on Sun Blade 100 and 150 systems, you might see `sutest` report failures similar to the following:

```
07/11/03 16:35:58 dt214-175 SunVTS5.1ps2: VTSID 6003 sutest.ERROR su0:
"data miscompare, cnt = 2910, exp = 0x5e, obs = 0x4e, receive device =
/dev/term/a, source device = /dev/term/a, baud rate = 9600"
Probable_Cause(s): <system load too heavy for selected baud rate>
<loopback connection defective> <bad serial port hardware> <system
software error> Recommended_Actions: <reduce system load> <lower baud
rate> <check loopback connection> <if the problem persists, contact
authorized Sun service provider>
```

The difference between the expected (`exp`) and the observed (`obs`) values is always `0x10`.

The long term technical fix for this problem will involve the installation of a patch or driver to be released in the near future. The root cause of this failure is still under investigation.

Workaround: Do not perform `sutest` and `disktest` simultaneously.

Using zulutest (Bug ID 4753578)

If you perform the Sun XVR-4000 Graphics Accelerator Test (`zulutest`) on a system that was powered on without running X-Windows, you must bring up X-Windows on the Sun XVR-4000 Graphics Accelerator device under test and kill the X-Windows process before performing `zulutest`. Otherwise, the Convolve subtest might fail, and other subtests might also fail.

Note – You must enable multisampling with the `fbconfig` command before performing the following workaround. To perform `zulutest` with X-Windows (CDE) the following workaround is not necessary.

Workaround: To bring up X-Windows on the Sun XVR-4000 Graphics Accelerator device under test, enter the following command:

```
/usr/openwin/bin/Xsun -dev /dev/fbs/device_name &
```

It takes 30 to 45 seconds before Xsun comes up. To kill the Xsun process, enter the following command:

```
pkill -KILL Xsun
```

Once the Xsun process is killed, the `zulutest` can be performed without the incorrect subtest errors.

The Sun XVR-4000 Graphics Accelerator cannot perform video read back in Interlaced and Stereo modes because the Convolve subtest cannot keep up.

For `zulutest` to be able to perform the Convolve subtest, multisampling must be enabled.

Workaround: None.

Using zulutest (Bug ID 4824491)

The console could become corrupted when performing `zulutest` from a console window if a Stop-A keyboard sequence is entered in the CDE environment.

Workaround: Do not use the Stop-A keyboard sequence when performing `zulutest`.

Using pkginfo -c sunvts Command

The command `pkginfo -c sunvts` does not produce any output in SunVTS 5.1. This situation correctly implements the `-c` option of the `pkginfo` command.

Workaround: Use the following command to receive SunVTS 5.1 package information:

```
# pkginfo -l SUNWvts SUNWvtsx SUNWvtsmn
```

You can also use either of the following commands to receive additional SunVTS 5.1 package information:

```
# pkginfo | grep vts  
# showrev -p | grep vts
```

Workaround: None.

Using sutest (Bug ID 4750344)

Performing `sutest` on a port that is being used as console causes `sutest` to fail.

Workaround: Do not perform `sutest` on a port that is being used as a console.

Using m64test in a Gnome Environment (Bug ID 4997460)

Performing `m64test` for Sun PGX64 in a default console window, might cause intermittent failures in a Gnome environment.

Workaround: None.

Using afbtest and m64test in a Gnome Environment (Bug ID 4996537)

Performing `afbtest` or `m64test` tests in a Gnome environment might cause intermittent failures.

Workaround: None.

Using jnifctest (Bug ID 4965226)

An error might occur when `jnifctest` is performed on a system with 5 JNI ports. This error occurs on one card and the error can be seen using the data pattern 0x00000000. The value returned for the `fcio_errno` statistic is 65 (decimal).

Workaround: Turn off the self-test or perform the test on one port only.

Using disktest (Bug ID 4915233)

When performing `disktest`, the test might probe and premount the Solstice DiskSuite (SDS) partitions as mirrors.

Workaround: Set the `BYPASS_FS_PROBE` parameter to 0.

Creating Schedules (Bug ID 4946695)

If the `/var/opt/SUNWvts/sched_manage` directory is not present, schedules cannot be created.

Workaround: Create the `/var/opt/SUNWvts/sched_manage` directory before creating schedules.