



SunVTS™ 6.3 Patch Set 3 Release Notes

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SunVTS 6.3 Patch Set 3 Release Notes

The SunVTS™ 6.3 Patch Set 3 (PS3) software is designed for the Solaris™ 10 6/06 Operating System (OS) and is compatible with the Solaris 10 3/05 or later OS.

Note – All new features, tests, and test enhancements that are released in SunVTS 6.3 are documented in the *SunVTS 6.3 Test Reference* manuals, and *SunVTS 6.3 User's Guide*. These documents are included on Solaris on the Sun Hardware collection on the Solaris Documentation DVD, in the extra value (EV) directory. These documents are also available at: <http://docs.sun.com>

For the latest version of this document (820-2544-10), go to:
<http://www.sun.com/documentation>

SunVTS 6.3 Patch Set 3 supports Sun Dual 10GbE XFP PCIe ExpressModule and Sun Quad GbE UTP x8 PCIe ExpressModule driver version 1.100. (Driver version 1.100 is not supported nor backward compatible with SunVTS 6.3 patch set 2.)

SunVTS 6.3 Patch Set 3 supports AtlasQGC (nxge). You can find the latest updates for the nxge driver software at this web site:

<http://www.sun.com/download>

Select Networking.

For AtlasQGC, you can find the latest Sun x8 Express Quad Gigabit Ethernet UTP Low Profile adapter documentation at this web site:

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

SunVTS Support for the Solaris OS on x86-Based Systems

Note – In this document these x86 related terms mean the following:
“x86” refers to the larger family of 64-bit and 32-bit x86 compatible products.
“x64” points out specific 64-bit information about AMD64 or EM64T systems.

Starting with the Solaris 10 OS, the SunVTS infrastructure and core diagnostics are available for x86 platforms. Starting with Solaris 10 3/05 HW1, SunVTS diagnostics for x86 platforms are supported in the AMD 64-bit environment for the SunVTS kernel (`vtstk`). All diagnostics except the System Test (`sytest`) are ported to 64-bit.

SunVTS is supported and tested on the following Sun x86 platforms:

- Sun Fire V20z
- Sun Fire V40z
- Sun Fire B100
- Sun Fire B200
- Sun Fire x4100
- Sun Fire x4100 M2
- Sun Fire x4200
- Sun Fire x4200 M2
- Sun Fire x4500
- Sun Fire x4600
- Sun Blade x8400
- Netra CP3020

Note – If you perform SunVTS on an unsupported platform, a warning message appears and SunVTS stops.

You must install the x86 version of the SunVTS packages to perform SunVTS on x86 platforms. The software packages use the same names as in the SPARC® environment. The SunVTS packages delivered separately for both x86 and SPARC Solaris platforms are as follows:

- `SUNWvts` – Contains the SunVTS core framework that includes the kernel and user interface.
- `SUNWvtsmn` – Contains the SunVTS online manual pages
- `SUNWvtsr` – Contains the SunVTS framework configuration files in the root partition (superuser).
- `SUNWvtsts` – Contains the SunVTS test binaries.

The SunVTS components available for x86 Solaris platforms are as follows.

Infrastructure:

- sunvts
- vtsk
- vts_cmd
- vtstty
- vtsui
- vtsprobe

SunVTS tests:

- BMC Environment Test (bmcenvironment)
- CD DVD Test (cddvdtest)
- CPU Test (cputest)
- Cryptographics Test (cryptotest)
- Disk and Diskette Drives Test (disktest)
- Data Translation Look-aside Buffer (dtlbtest)
- Emulex HBA Test (emlxtest)
- Floating Point Unit Test (fputest)
- InfiniBand Host Channel Adapter (ibhcatest)
- Level 1 Data Cache Test (l1dcachetest)
- Level 2 SRAM Test (l2sramtest)
- Ethernet Loopback Test (netlbtest)
- Network Hardware Test (nettest)
- Physical Memory Test (pmentest)
- Qlogic Host Bus Adapter Test (qlctest)
- RAM test (ramtest)
- Serial Port Test (serialtest)
- System Test (systest)
- Tape Drive Test (tapetest)
- Universal Serial Board Test (usbtest)
- Virtual Memory Test (vmemtest)

Displaying SunVTS Package and Version Information

Use the following command to display SunVTS package information:

```
# pkginfo -c SUNWvts SUNWvtsr SUNWvtsts SUNWvtsmn
```

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

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

Use either of the following commands to display SunVTS version information:

- # sunvts -v
- # cat /opt/SUNWvts/bin/.version

Open Issues

Possible Installation Issue: 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.

Possible Runtime Issues for Both x86 and SPARC Platforms

CR 6559584 SIGSEGV Segment Violation Error

`libmtnsk` has some potential issues that appear as an SEGV error in `systemst`. Installing the latest `libmtnsk` patches alleviates this issue (applies to both x86 and SPARC systems).

CR 6559416 Segment Violation Error

This bug is attributed to the `libmtnsk` bug (CR 6559584) above. `systemst` has been updated in SunVTS 6.3 Patch Set 3 to also alleviate this issue.

CR 6567406 `saip1test` (`saip1`) not Displayed in Test_Groups Panel

SunVTS 6.3 Patch Set 3 `saip1test` requires `SUNWsaip`, `SUNWsaipu` packages 3.0,REV=2005.03.28.10.0, patch 124020-02.

Retrieve the instance number of the active SAI/P cards. To do this, type:

```
# prtconf -D | grep saip
```

Invoking the `saipconfig` script provides [smaller] instance number from the `prtconf` command when it asks for the starting instance number. To invoke the script, type:

```
# /etc/opt/SUNWconn/bin/saipconfig
```

Note – There are two “VERSION: 3.0” `SUNWsaip`, `SUNWsaipu` packages with different release dates:

1. VERSION: 3.0,REV=2005.01.24.10.0
2. VERSION: 3.0,REV=2005.03.28.10.0, needs patch 124020-02

`SUNWsaip`, `SUNWsaipu` packages VERSION: 3.0,REV=2005.01.24.10.0 is needed for earlier SunVTS releases (SunVTS 6.0, 6.1, 6.2, 6.3ps2).