Solaris Reference Manual for SMCC-Specific Software

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CHAPTER

Maintenance Commands

NAME

sunvts – Invokes the SunVTS kernel and its user interface

SYNOPSIS

sunvts [–lepqstv] [–o *option_file*] [–f *log_dir*] [–h *hostname*]

AVAILABILITY

SUNWvts

DESCRIPTION

The sunvts command is used to invoke the SunVTS user interface and kernel on the same system. It could be used to start the user interface on the local system and connect to the SunVTS kernel on the remote system. By default, it displays CDE Motif graphic interface for CDE environment, OpenLook graphic interface for OpenWindows environment, or TTY interface for non-windowing system. By default, sunvts will start the appropriate **vtsk**(1M) depending on the type of the operating system (32-bit or 64-bit) that is running.

OPTIONS

–l Displays SunVTS OpenLook graphic interface.

–e Disables the security checking feature.

–f ***log_dir*** Specifies an alternative log_file directory. The default log_file directory is /var/opt/SUNWvts/logs.

–h ***hostname*** Starts the SunVTS user interface on the local system, which connects to or invokes the SunVTS kernel on the specified host after security checking succeeds.

–o ***option_file*** Starts the SunVTS kernel with the test options loaded from the specified *option_file*, which by default is located in /var/opt/SUNWvts/options.

–p Starts the SunVTS kernel vtsk (1M) such that it does not probe the test system's devices.

–q Automatically quits both the SunVTS kernel and the user interface when testing stops.

–s Automatically starts testing from a selected group of tests. The flag must be used with the –o *option_file* flag.

–t Starts vtstty (1M), a TTY based interface, instead of CDE or OpenLook interface.

–v Displays version information from **vtsui**(1M) and **vtsk**(1M).

NOTES

If `vtsk (1M)` is already running on the test system, the `sunvts` command ignores the `--e, --o, --f, --q, --p,` and `–s` options.

SEE ALSO

vtsk(1M), **vtstty**(1M), **vtsui**(1M), **vtsui.ol**(1M), **vtsprobe**(1M)

NAME

vtsk – SunVTS diagnostic kernel

SYNOPSIS

vtsk [–epqsv] [–o *options_file*] [–f *logfile_directory*]

AVAILABILITY

SUNWvts

DESCRIPTION

The vtsk command starts up the SunVTS diagnostic kernel as a background process. There can only be one copy of vtsk running at a time. Only the superuser can execute this command.

Normally, vtsk is automatically started up by the sunvts (1M) command if it is not already running. vtsk will also be invoked by inetd (1M) when there is a connection request from vtsui or vtsui.ol. In that case, the security file, .sunvts_sec, will be checked for the permission before running vtsk on the target host specified by **vtsui**(1M) or **vtsui.ol**(1M).

Starting with SunVTS 3.0, a 64-bit vtsk is bundled with the SUNWvtsx package. This is installed by default in the /opt/SUNWvts/bin/sparcv9 directory with the other 64-bit SunVTS binaries. The traditional 32-bit vtsk bundled with the SUNWvts package is installed in the /opt/SUNWvts/bin directory by default. The ./sunvts command that normally invokes vtsk will determine which form of the OS is currently running (either 32-bit or 64-bit) and then start the appropriate vtsk.

While the /opt/SUNWvts/bin directory is the default location, the package installer has the option of selecting a different parent directory for /opt/SUNWvts/bin.

OPTIONS

–e	Enables the security checking for all connection requests.
–p	Starts SunVTS diagnostic kernel, but does not probe system configuration.
–q	Quits both the SunVTS diagnostic kernel and the attached User Interfaces when the testing is completed.
–s	Runs enabled tests immediately after started.
–v	Display SunVTS diagnostic kernel's version information only.
–o ***options_file***	Starts the SunVTS diagnostic kernel and sets the test options according to the option file named *options_file*.

–f ***logfile_directory***	Specifies an alternative logfile directory, other than the default.

EXIT STATUS

The following exit values are returned:

`0` Successful completion.

`--1` An error occurred.

FILES

`/var/opt/SUNWvts/options`	default option file directory.
`/var/opt/SUNWvts/logs`	default log file directory.

SEE ALSO

sunvts(1M), **vtsui**(1M), **vtsui.ol**(1M), **vtstty**(1M), **vtsprobe**(1M)

NAME

vtsprobe – prints the device probe information from the SunVTS kernel

SYNOPSIS

vtsprobe [–m] [–h *hostname*]

AVAILABILITY

SUNWvts

DESCRIPTION

vtsprobe is a utility that displays the device and configuration information contained in the SunVTS kernel. The output includes the SunVTS assigned group for the device, the device name, the device instance, the testname attached to this device, and the configuration information obtained from the device-specific test probe.

OPTIONS

–m
: Specifies manufacturing mode, which displays the probe information in a format that is easy to read using script files.

–h ***hostname***
: Specifies the hostname to connect to and get the device and configuration information. If not specified, the current host will be used.

USAGE

After the SunVTS kernel is up and running, you may type vtsprobe at the shell prompt to get the probe output. (See the sunvts (1M) man page for more information on how to start up SunVTS.

EXAMPLES

Running vtsprobe on a sun4m SPARCclassic produces the following output:

```
% vtsprobe

    Processor(s)
            system(systest)
                    System Configuration=sun4m SPARCclassic
                    System clock frequency=50 MHz
                    SBUS clock frequency=25 MHz
            fpu(fputest)
                    Architecture=sparc
                    Type=TI TMS390S10 or TMS390S15 microSPARC chip
    Memory
            kmem(vmem)
                    Total: 143120KB
            mem(pmem)
                    Physical Memory size=24 Mb
    SCSI-Devices(esp0)
            c0t2d0(rawtest)
                    Capacity: 638.35MB
                    Controller: esp0
                    Vendor: MICROP
                    SUN Id: 1588-15MBSUN0669
                    Firmware Rev: SN0C
                    Serial Number: 1588-15MB103
            c0t2d0(fstest)
                    Controller: esp0
            c0t3d0(rawtest)
```

```
                        Capacity: 404.65MB
                        Controller: esp0
                        Vendor: SEAGATE
                        SUN Id: ST1480   SUN0424
                        Firmware Rev: 8628
                        Serial Number: 00836508
                c0t3d0(fstest)
                        Capacity: 404.65MB
                        Controller: esp0
                        Vendor: SEAGATE
                        SUN Id: ST1480   SUN0424
                        Firmware Rev: 8628
                        Serial Number: 00836508
                c0t3d0(fstest)
                        Controller: esp0
                c0t6d0(cdtest)
                        Controller: esp0
                tape1(tapetest)
                        Drive Type: Exabyte EXB-8500 8mm Helical Scan
        Network
                isdn0(isdntest)
                        NT Port  TE Port
                le0(nettest)
                        Host_Name: ctech84
                        Host Address: 129.146.210.84
                        Host ID: 8001784b
                        Domain Name: scsict.Eng.Sun.COM
        Comm.Ports
                zs0(sptest)
                        Port a -- zs0  /dev/term/a : /devices/ ... a
                        Port b -- zs1  /dev/term/b : /devices/ ... b
        Graphics
                cgthree0(fbtest)

        OtherDevices
                bpp0(bpptest)
                        Logical name: bpp0
                sound0(audio)
                        Audio Device Type: AMD79C30
                sound1(audio)
                        Audio Device Type: DBRI Speakerbox
                spd0(spdtest)
                        Logical name: spd0
```

NOTES

The output of `vtsprobe` is highly dependent on the device being correctly configured into the system (so that a SunVTS probe for the device can be run successfully on it) and on the availability of a device-specific test probe.

If the device is improperly configured or if there is no probing function associated with this device, `vtsprobe` cannot print any information associated with it.

SEE ALSO

sunvts(1M), **vtsk**(1M), **vtsui**(1M), **vtsui.ol**(1M), **vtstty**(1M)

NAME

vtstty – TTY interface for SunVTS

SYNOPSIS

vtstty [–qv] [–h *hostname*]

AVAILABILITY

SUNWvts

DESCRIPTION

vtstty is the default interface for SunVTS in the absence of a windowing environment. It can be used in a non-windowing environment such as a terminal connected to the serial port of the system. However, its use is not restricted to this; vtstty can also be used from shell window.

OPTIONS

–q The "auto-quit" option automatically quits when the conditions for SunVTS to quit are met.

–v Prints the vtstty version. The interface is not started when you include this option.

–h ***hostname*** Connects to the SunVTS kernel running on the host identified by *hostname.*

USAGE

The vtstty screen consists of four panels: main control, status, test groups, and console. The panels are used to display choices that the user can select to perform some function and/or to display information. A panel is said to be "in focus" or in a "selected" state when it is surrounded by asterisks and the current item is highlighted. In order to choose from the items in a panel, the focus should be shifted to that panel first.

The following are the different types of selection items that can be present in a panel:

Text string Describes a choice that, when selected, either pops up another panel or performs a function. For example, "stop" will stop the SunVTS testing.

Data entry field To enter or edit numeric or textual data.

Checkbox Represented as "[ ]". Checkboxes are associated with items and indicate whether the associated item is selected or not. A checkbox can be in one of the following two states: Deselected [ ]or Selected [*].

The key assignments given below describe the keys for shifting focus, making a selection, and performing other functions:

TAB or <CTRL>W Shift focus to another panel

RETURN Select current item

Spacebar	Toggle checkbox
Up arrow or <CTRL>U	Move up one item
Down arrow or <CTRL>N	Move down one item
Left arrow or <CTRL>P	Move left one item
Right arrow or <CTRL>R	Move right one item
Backspace	Delete text in a data entry field
ESC	Dismiss a pop-up
<CTRL>F	Scroll forward in a scrollable panel
<CTRL>B	Scroll backward in a scrollable panel
<CTRL>X	Quit `vtstty` but leave the SunVTS kernel running
<CTRL>L	Refresh the `vtstty` screen

NOTES

1. To run `vtstty` from a telnet session, carry out the following steps:

a. Before telnet-ing, determine the values for "rows and "columns". (See **`stty`**(1)).

b. Set term to the appropriate type after telnet-ing(for example, `set term=vt100`

c. Set the values of columns and rows to the value noted above. (See **`stty`**(1)).

2. Before running `vtstty` ensure that the environment variable describing the terminal type is set correctly.

SEE ALSO

`sunvts`(1M), **`vtsk`**(1M), **`vtsui`**(1M), **`vtsui.ol`**(1M), **`vtsprobe`**(1M)

NAME

vtsui – SunVTS Graphic User Interface (CDE)

SYNOPSIS

vtsui [–qv] [–h *hostname*]

AVAILABILITY

SUNWvts

DESCRIPTION

The vtsui command starts up the CDE Motif version of SunVTS graphic user interface. There can be multiple instances of vtsui running at the same time, all connected to one SunVTS diagnostic kernel, **vtsk**(1M). The name of the host machine running the diagnostic kernel, **vtsk**(1M), will be displayed in the title bar of the graphical user interface window.

vtsui is automatically started up by the sunvts (1M) command. vtsui can be also used to start vtsk (1M) if inetd (1M) is in operation. In that case, the security file, sunvts_sec, will be checked for the permission before running vtsk on the target host.

See the "SunVTS User's Guide" for a complete description on using the graphical user interface.

OPTIONS

–q Quits the SunVTS graphic user interface when testing has terminated.

–v Displays graphic user interface version information only.

–h ***hostname*** Starts the SunVTS graphic user interface and connects to the SunVTS diagnostic kernel running on *hostname*, or invokes the kernel if not running, after security checking succeeds. If hostname not specified, the local host is assumed.

EXIT STATUS

The following exit values are returned:

0 Successful completion.

1 An error occurred.

SEE ALSO

sunvts(1M), **vtsk**(1M), **vtsui.ol**(1M), **vtstty**(1M), **vtsprobe**(1M)

NAME

vtsui.ol – SunVTS Graphic User Interface (OpenLook)

SYNOPSIS

vtsui.ol [–qv] [–h *hostname*]

AVAILABILITY

SUNWvts

DESCRIPTION

The vtsui.ol command starts up the OpenLook version of SunVTS graphic user interface. There can be multiple instances of vtsui.ol running at the same time, all connected to one SunVTS diagnostic kernel, **vtsk**(1M). The name of the host machine running the diagnostic kernel, **vtsk**(1M), will be displayed in the title bar of the graphic user interface window.

vtsui.ol can be used to start **vtsk**(1M) if **inetd**(1M) is in operation. In that case, the security file, .sunvts_sec, will be checked for the permission before running vtsk on the target host. vtsui.ol is also automatically started up by the **sunvts**(1M) command.

See the "SunVTS User's Guide" for a complete description on using the graphic user interface.

OPTIONS

–q Quits the SunVTS graphic user interface when testing has terminated.

–v Displays graphic user interface version information only.

–h ***hostname*** Starts the SunVTS graphic user interface and connects to the SunVTS diagnostic kernel running on *hostname*, or invokes the kernel if not running, after security checking succeeds. If hostname not specified, the local host is assumed.

EXIT STATUS

The following exit values are returned:

0 Successful completion.

1 An error occurred.

SEE ALSO

sunvts(1M), **vtsk**(1M), **vtsui**(1M), **vtstty**(1M), **vtsprobe**(1M)

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