

Veritas Storage Foundation[™] for Oracle RAC Release Notes

Linux for IBM System p

5.0



Veritas Storage Foundation for Oracle RAC Release Notes

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Storage Foundation 5.0 for Oracle RAC

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Veritas Storage Foundation for Oracle RAC Release Notes

This document provides important information regarding Veritas™ Storage Foundation for Oracle RAC (SF Oracle RAC) for Red Hat Enterprise Linux 4.0 and SUSE Linux Enterprise Server 9 (on ppc64 architectures). Review this entire document before installing this product.

See the following Technical Support TechNote for the latest information on updates, patches, and software issues regarding this release:

<http://entsupport.symantec.com/docs/285834>

Veritas Storage Foundation for Oracle RAC is an integrated set of software products. It enables administrators of Oracle Real Application Clusters (RAC) to operate a database in an environment of cluster systems running Veritas Cluster Server (VCS) and the cluster features of Veritas Volume Manager and Veritas File System, also known as CVM and CFS, respectively.

Acronyms used for Storage Foundation for Oracle RAC components include the following:

| | |
|-------------|---|
| CVM | Veritas Volume Manager cluster functionality |
| CFS | Veritas File System cluster functionality |
| VCS | Veritas Cluster Server |
| VEA | Veritas Enterprise Administrator graphical user interface |
| VxFS | Veritas File System |
| VxVM | Veritas Volume Manager |

SF Oracle RAC components are described in the *Veritas Storage Foundation for Oracle RAC Installation and Configuration Guide*. Refer to component-product documentation and release notes for additional information to assist you during installation and configuration of SF Oracle RAC.

System requirements

Make sure that you have the correct equipment to install SF Oracle RAC.

Table 1-1 System requirements

| Item | Description |
|---|--|
| SF Oracle RAC systems | Two to eight systems with two or more CPUs at 2GHz or higher. |
| RAM | Each SF Oracle RAC system requires 2 GB or more of physical memory. |
| Network links | Two or more private links and one public link. Links must be 100BaseT or Gigabit Ethernet directly linking each node to the other node to form a private network that handles direct inter-system communication. Symantec recommends switches for the private network links. These links must be of the same type; you cannot mix 100BaseT and Gigabit. |
| DVD drive | One drive that is accessible to all nodes in the cluster. |
| Fibre channel or SCSI host bus adapters | SF Oracle RAC requires at least one built-in SCSI adapter per system to access the operating system disks, and at least one additional SCSI or Fibre Channel Host Bus Adapter per system for shared data disks. |
| Disks | Typical SF Oracle RAC configurations require that shared disks support applications that migrate between systems in the cluster. The SF Oracle RAC I/O fencing feature requires that all disks used as data disks or as coordinator disks must support SCSI-3 Persistent Reservations (PR). |
| Disk space | SFRAC space requirement: <ul style="list-style-type: none"> ■ total: 2.6 G ■ /opt: 1.4 G ■ /usr: 200 KB ■ /tmp: 512 MB ■ /var: 32 MB ■ /var/tmp: 700 MB |
| Swap space | Two times the main memory. |

Supported hardware

Review the current compatibility list to confirm compatibility of your hardware:

<http://entsupport.symantec.com/docs/286819>

Supported software

Linux operating systems

Within a cluster, all nodes must use the same operating system version and patch level. Software support for this release includes the following Linux operating systems and kernel binaries distributed by Red Hat and SUSE.

Table 1-2 Linux operating systems

| Operating System | Architecture | Kernel |
|---|--------------|---|
| Red Hat Enterprise Linux 4 (RHEL 4) with Update 3 or 4 | ppc64 | 2.6.9-34, 42 kernels on IBM System p servers (using IBM POWER5 processors). Later updates of RHEL4 are supported provided that Red Hat maintains kernel application binary interface (kABI) compatibility. |
| SUSE Linux Enterprise Server 9 (SLES 9) with Service Pack 3 | ppc64 | 2.6.5-7.244 kernel on IBM System p servers (using IBM POWER5 processors). Later updates of SLES9 are supported provided that SuSE maintains kernel application binary interface (kABI) compatibility. |

If your system is running an older version of Red Hat Enterprise Linux or SUSE Linux Enterprise Server, you must upgrade Linux before installing the SF Oracle RAC software. Consult your Linux documentation for information on upgrading your system.

For RHEL4, disable SELinux (Security Enhanced Linux) and Firewall during OS installation.

For SLES9, do not use the auditing subsystem. ODM is not compatible with the auditing subsystem on SLES 9.

Veritas software

Only versions of VCS, VxVM, and VxFS provided on the software disc are supported. Remove other versions before you install the software from the Veritas Storage Foundation for Oracle RAC software disc.

Global Clustering Option (GCO) with VCS and Replication with Veritas Volume Replicator (VVR) is not supported with this release.

Oracle software

SF Oracle RAC supports Oracle software in the following combinations:

Table 1-3 Supported versions of Oracle

| Base Oracle Version | Latest Supported Oracle Version | RHEL 4.0 Update 4 ppc64 | SLES9 SP3 ppc64 |
|-------------------------------|---------------------------------|-------------------------|-----------------|
| Oracle 10g Release 2 10.2.0.1 | Oracle 10g Release 2 10.2.0.3 | Yes | Yes |

The “Latest Supported Oracle Version” is always supported. For a fresh installation, you must upgrade the Oracle binaries to the “Latest supported Oracle version” before performing the database creation operation. This prevents potential problems due to an older Oracle version being incorrectly linked with the IPC library requirement for the newer version.

To verify the latest information on support for Oracle database versions, see the Technical Support TechNote:

<http://entsupport.symantec.com/docs/285834>

Required patches

Linux operating system patches

Install the updates listed in “[Linux operating systems](#)” on page 7 for either Red Hat Enterprise Linux (RHEL 4) or SUSE Linux Enterprise Server 9 before installing SF Oracle RAC.

Software limitations

The following limitations apply to this release.

Non-global zones

Storage Foundation for Oracle RAC is not supported on non-global zones.

Cluster File System (CFS)

The following are limitations of Cluster File System:

- CFS supports only disk layout version 6 and 7
- No support for HSM/DMAPI.

Volume Manager in a shared disk environment (CVM)

Volume Manager cluster functionality does not support software RAID 5.

Space-optimized volume snapshots

To avoid performance impact on an SF Oracle RAC cluster, Symantec does not recommend using the space-optimized instant volume snapshot type when using VxVM volume snapshot functionality.

Storage Checkpoints and Database FlashSnap

The following are limitations of Storage Checkpoints and Database FlashSnap:

- You cannot create a clone database using a mounted Storage Checkpoint.
- If you create an Oracle instance using the `spfile` option, you must run the `dbed_update` command before you can successfully perform any Storage Checkpoint or Database FlashSnap functions.
- Storage Checkpoints require file system layout version 6 or 7. Use the `vxupgrade(1M)` command to check the current layout version and to change the layout version if necessary. When upgrading a CFS file system, issue the command from the primary node.
Note: After you upgrade a system to layout version 6 or 7, the file system is no longer compatible with older VxFS file systems.
- When cloning a database using Database FlashSnap, the Oracle database must have at least one mandatory archive destination. For more information about Oracle parameters for archiving redo logs, see your Oracle documentation.

- For an Oracle RAC database, the `dbed_vmsnap`, `dbed_vmclonedb`, and `dbed_vmchecksnap` commands must be run on the CVM master node. Also, only online snapshots are supported, which means the database instance should be up and running on the master node where validation is performed.
- After running `dbed_vmsnap -o reverse_resync_commit`, your primary database is started using a pfile. If your original primary database used an spfile, you need to shut down the database and restart it using the spfile. Then, run `dbed_update` to update the repository.
- The Storage Checkpoint and Database FlashSnap features of SF Oracle RAC do not support the GUI of the Veritas Storage Foundation for Oracle product.
- The Database FlashSnap feature does not support RAID-5 volumes.

Installation notes

The following information includes guidelines, tips, and other considerations for installing the product.

Setting the environment variable LD_ASSUME_KERNEL

Setting the environment variable LD_ASSUME_KERNEL=2.4.19 may be required for some Oracle tasks. Set the variable manually. Do not set this variable in the profile of root user. Doing so may result in SF Oracle RAC processes terminating abnormally.

Storage Foundation for Oracle RAC packages

Storage Foundation for Oracle RAC is a licensed product. The *Veritas Storage Foundation for Oracle RAC Installation and Configuration Guide* describes how to obtain a license that applies for Veritas Storage Foundation for Oracle RAC, Veritas Volume Manager, Veritas File System, and Veritas Cluster Server.

Infrastructure packages installed

The installer checks for the presence of the infrastructure packages, `VRTSvlic` (Veritas Licensing) and `VRTScpi` (Veritas Product Installer). If they are not present, or if they are present but not the correct version, they will be installed.

Software installed for Storage Foundation for Oracle RAC

The software components installed by the Veritas Storage Foundation for Oracle RAC 5.0 installation utility, `installsfprac`, include:

- Veritas Storage Foundation for Oracle RAC
- Veritas Cluster Server (VCS)
- Veritas Volume Manager (VxVM)
- Veritas Group Lock Manager
- Veritas File System (VxFS)
- Veritas extension for Oracle Disk Manager (ODM)
- Veritas Cluster Server agent for Oracle

Operation notes

The following information includes guidelines, tips, and other considerations for operating the product. See the *Storage Foundation for Oracle RAC Installation and Configuration Guide* for complete procedures.

Enabling fencing

When the product installer completes installation of SF Oracle RAC, I/O fencing is disabled on all cluster nodes. Symantec does not support using SF Oracle RAC with I/O fencing disabled. See the *Veritas Storage Foundation for Oracle RAC Installation and Configuration Guide* for details on configuring I/O fencing in a cluster environment.

Known issues

The following issues were reported for this release:

Kernel warning messages when Veritas modules load

For SLES9 SP3, a warning message resembling the following may be displayed in the console or the system log when Veritas modules are loaded into the kernel.

```
Warning: module not supported by Novell, setting U taint flag.  
module license 'Proprietary. Send bug reports to  
support@veritas.com' taints kernel.
```

These warning messages are displayed because the Veritas modules are proprietary. They can safely be ignored.

Deporting and importing of shared disk groups

If you manually deport a shared disk group, the CVMVolDg agent does not automatically reimport it as a shared group. You must manually reimport the disk group as a shared group.

Installation fails while starting the CFS agents

The installation of Storage Foundation for Oracle RAC may fail if the system names provided during installation do not match the actual host names of the cluster systems. The failure occurs while attempting to start the CFS agents.

To resolve system name mismatch

- 1 Uninstall the Storage Foundation for Oracle RAC product.
- 2 Reinstall using the correct host names of the cluster systems.

Network interfaces change their names after restart

On SUSE systems, network interfaces change their names after restarting even with `HOTPLUG_PCI_QUEUE_NIC_EVENTS=yes` and `MANDATORY_DEVICES="..."` set.

Workaround: Use `PERSISTENT_NAME= ethX` where X is the interface number for all interfaces. For more details see the *Storage Foundation for Oracle RAC Installation and Configuration Guide*.

CRS resources go into UNKNOWN state after reboot

After reboot, CRS resources (`gsd`, `ons`, instances, listeners) may display UNKNOWN state.

To resolve this issue, do one of the following:

- Stop and start CRS with: `/etc/init.d/init.crs`
- Stop the UNKNOWN resources one by one and start them with: `$CRS_HOME/bin/crs_start`

This problem is identified as bug in Oracle. For further information on this bug, contact Oracle support.

Handling of RAW files with ODM enabled for Oracle 10g R2

Oracle can use RAW files for data files, control files and redo logs. Previously, the SQL REUSE clause was ignored if the associated file was a RAW file. For Oracle 10g Release 2, the REUSE clause of SQL is mandatory when Oracle Disk Manager (ODM) is enabled.

Workaround: To create database files on raw volumes, you must set the REUSE option in the SQL commands. For examples of error messages and SQL workarounds, see the following Technical Support TechNote:

<http://entsupport.symantec.com/docs/283362>

Database recovery may fail with `dbed_vmclonedb -o recoverdb`

Recovering a database with `dbed_vmclonedb -o recoverdb` produces the following error message:

```
SFORA dbed_vmclonedb ERROR V-81-4918 Database has not been correctly recovered
```

Workaround: To recover the clone database, mount the database with `dbed_vmclonedb -o mountdb` and then do the recovery manually. After doing manual recovery, run `dbed_vmclonedb -o update_status` to update the repository.

Error message on Red Hat for dbed_vmchecksnap and dbed_vmsnap

In an Oracle RAC environment on Red Hat, snapplan validation succeeds but also produces the following error:

```
valid_dg_info: /opt/VRTS/bin/dbed_vmchecksnap[2011]: [: MASTER:
unexpected
```

Workaround: Create a link to `/usr/bin/grep` for `/bin/grep`.

Netdump - Network console and crash dump facility

Symantec advises that `netdump` to be installed and configured on all Red Hat and SUSE installations. This is not specifically for the Veritas product stack, but because this is recommended as good systems administration practice.

For information on `netdump` installations for Red Hat systems, see:

<http://www.redhat.com/support/wpapers/redhat/netdump/>

For information on `netdump` installations for SUSE systems, see:

</usr/share/doc/packages/lkcdutils/README.SuSE>

SCSI reservation errors during bootup

If you reboot a node of an SF Oracle RAC cluster, SCSI reservation errors may be observed during bootup. For example:

```
Nov 23 13:18:28 galaxy kernel: scsi3 (0,0,6) : RESERVATION CONFLICT
```

This message is printed for each disk that is a member of any shared disk group which is protected by SCSI-3 I/O fencing. The message may be safely ignored.

I/O fencing module may not be able to write the reservation keys

If you exit the product installer without stopping all the SF Oracle RAC components, you may encounter problems with the I/O fencing module, `vxfen`.

Workaround: If `vxfen` has problems coming up after the reboot, SCSI-3 PR registration keys should be fixed using `vxfcntlclearpre` command. See the *Storage Foundation for Oracle RAC Installation and Configuration Guide*.

Changing the Veritas agent for Oracle error handling

The Veritas agent for Oracle provides enhanced handling of Oracle errors encountered during detailed monitoring. The agent uses the reference file, `oraerror.dat`, which provides a list of Oracle errors and actions to address the errors.

Refer to the *Veritas High Availability Agent for Oracle Installation and Configuration Guide* for a description of the actions.

Currently, the file specifies the NOFAILOVER action for the following Oracle errors:

```
ORA-00061, ORA-02726, ORA-6108, ORA-06114
```

The NOFAILOVER action means that the agent sets the state of the resource to OFFLINE and freezes the service group.

You can stop the agent, edit `oraerror.dat`, and change the NOFAILOVER action to another action that is appropriate for your environment. The changes go into effect when you restart the agent.

User-space warning messages appear when Veritas modules load

While loading Veritas modules, the following user-space messages may appear:

```
WARNING: No modules found for 2.6.9-42.EL, using compatible
modules for 2.6.9-34.EL.
```

These warning messages are displayed because the corresponding package for the module does not contain modules compiled for the exact kernel version, in which case the module-load algorithm tries to find the best-fit module (which is kABI compatible) and load it. The user can safely ignore these messages.

Runinstaller GUI for Oracle base installation 10.2.0.1 does not display properly on SUSE

In a Japanese locale, the runinstaller for Oracle base installation of 10.2.0.1 does not display properly on SUSE.

Refer to the late breaking news TechNote for Oracle metalink information associated with this issue, see

<http://entsupport.symantec.com/docs/285834>

External disks are not visible after rebooting

If your external disks are not visible after a system reboot, it is likely that the driver for your host adapter was loaded after VxVM scans for attached storage at boot time. You are likely to experience this problem with QLogic and Emulex host adapters where the drivers are loaded by `kudzu` (on Red Hat) or `coldplug` (on SUSE) startup scripts.

Possible reasons for a host adapter to be loaded after VxVM startup include:

- The host adapter was added to a system after the operating system was installed.
- The host adapter driver was removed from the `initrd` (initial RAM disk) configuration.
- The host adapter was not detected correctly during installation.

If a host adapter driver is loaded after VxVM startup, scanning for the attached disks should make them visible to VxVM:

```
# vxdisk scandisks
```

The following command displays the disks:

```
# vxdisk list
```

To enable VxVM to discover the attached storage at boot time, the host adapter driver must be loaded in the `initrd`. The procedures for loading the host adapter driver on Red Hat and SUSE systems are described below.

To add a host adapter driver to the `initrd` file on a Red Hat system:

- 1 Use the `lsmod` command to identify the drivers for your host adapters:


```
# lsmod
```

Possible drivers include `qla2200` or `qla2300` for QLogic host adapters, or `lpfcdd` for Emulex host adapters.
- 2 Edit the module configuration file, `/etc/modprobe.conf`, and add an `alias` line for the host adapter to the end of the file, as shown in this example:


```
alias eth0 tg3
alias scsi_hostadapter mptbase
alias scsi_hostadapter1 mptscsih
alias scsi_hostadapter2 HBA_driver
```

where `HBA_driver` is the name of the host adapter driver.
- 3 If your system's root disk is encapsulated, use the following command to rebuild the `initrd` image:


```
# /usr/lib/vxvm/bin/vxinitrd /boot/VxVM_initrd.img `uname`
-r`
```

where the `uname-r` command is used to determine the version of the kernel for which the image is being created.

If your system's root disk is not encapsulated, use the following command to rebuild the `initrd` image:

```
# mkinitrd -f /boot/initrd-`uname -r`.img `uname -r`
```

- 4 Reboot the system:

```
# shutdown -now
```

When the system has rebooted, use the following command to check that the disks on the host adapter have been discovered by VxVM:

```
# vxdisk list
```

To add a host adapter driver to the `initrd` file on a SUSE system:

- 1 Use the `lsmod` command to identify the drivers for your host adapters:

```
# lsmod
```

Possible drivers include `qla2200` or `qla2300` for QLogic host adapters, or `lpfcdd` for Emulex host adapters.

- 2 Edit the kernel configuration file, `/etc/sysconf/kernel`, and add the name of the host adapter driver to the list defined for the `INITRD_MODULES` parameter, as shown in this example:

```
INITRD_MODULES="aacraid reiserfs HBA_driver"
```

where `HBA_driver` is the name of the host adapter driver.

The name of the host adapter driver must come after the name of the driver that is used by the system's internal disks (`aacraid` in this example).

- 3 If your system's root disk is encapsulated, use the following command to rebuild the `initrd` image:

```
# /usr/lib/vxvm/bin/vxinitrd /boot/VxVM_initrd.img `uname -r`
```

where the `uname-r` command is used to determine the version of the kernel for which the image is being created.

If your system's root disk is not encapsulated, use the following command to rebuild the `initrd` image:

```
# mkinitrd
```

- 4 Reboot the system:

```
# shutdown -now
```

When the system has rebooted, use the following command to check that the disks on the host adapter have been discovered by VxVM:

```
# vxdisk list
```

Wizards Do Not Start if the /etc/hosts File Contains ipv6 Entries

If the /etc/hosts file contains ipv6 entries, VCS displays an error when you try to start a VCS wizard.

Error message:

```
Error 16-12-6 Could not connect to VCS engine. Cannot proceed
```

Workaround: Remove the ipv6 entries before running VCS wizards.

vcsmm unconfigure Fails Due to Leftover Oracle Processes

Occasionally /etc/init.d/init.crs stop leaves some oclsmn.bin processes running. You are not able to unconfigure vcsmm because these processes make use of the VERITAS membership module. Using /etc/init.d/vcsmm stop will not succeed.

Workaround: Kill all oclsmn processes manually, after which you can unconfigure vcsmm.

Port 'o' is not visible even after vcsmm start

If GAB could not be seeded for any reason, then port 'o' will not be visible even after the vcsmm driver has started. This is because of the fact that the vcsmm driver waits for GAB seeding.

One such case where GAB may not seed is when the following occurs: if all GAB members have not joined, GAB seeding will not be complete.

Workaround: If there is a problem with GAB seeding, run the "gabconfig -cx" command and port 'o' will be visible. Otherwise, if there is a problem with LLT because of which GAB could not be started, then correct the LLT problem and restart the whole stack.

Issues affecting Oracle 10g Release 2

Oracle VIP Configuration Assistant

During Oracle 10g Release 2 installation, the VIP Configuration Assistant may fail with the following error message:

```
"The given interface(s), "eth0" is not public. Public interfaces
should be used to
configure virtual IPs."
```

This message appears only when the VIP is not from regular public IP range (200. etc).

Workaround: Invoke the vipca utility manually.

```
# export DISPLAY=nebula:0.0
# $CRS_HOME/bin/vipca
```

Oracle Cluster Verification Utility Warning message

During the final stage of Oracle 10g Release 2 installation, you may receive a warning message with the Oracle Cluster Verification Utility. For example:

```
Utility
=====
OUI-25031:Some of the configuration assistants failed. It is
strongly recommended that you retry the configuration
assistants at this time. Not successfully running any
"Recommended" assistants means your system will not be correctly
configured.
1. Check the Details panel on the Configuration Assistant Screen
to see the errors resulting in the failures.
2. Fix the errors causing these failures.
3. Select the failed assistants and click the 'Retry' button to
retry them.
=====
```

Workaround: You can safely ignore this message.

Documentation

Product guides are available on the documentation disc in PDF and HTML formats. We recommend copying pertinent information, such as installation

guides and release notes, from the disc to your system directory
 /opt/VRTS/docs for reference.

Table 1-4 Storage Foundation for Oracle RAC Documentation Set

| Document Title | File Name |
|--|------------------------|
| Veritas Storage Foundation for Oracle RAC | |
| <i>Veritas Storage Foundation for Oracle RAC Installation and Configuration Guide</i> | sfrac_install.pdf |
| <i>Veritas Storage Foundation for Oracle RAC Release Notes</i> | sfrac_notes.pdf |
| Veritas Cluster Server | |
| <i>Veritas Cluster Server Installation Guide</i> | vcs_install.pdf |
| <i>Veritas Cluster Server Release Notes</i> | vcs_notes.pdf |
| <i>Veritas Cluster Server User's Guide</i> | vcs_users.pdf |
| <i>Veritas Cluster Server Bundled Agents Reference Guide</i> | vcs_bundled_agents.pdf |
| <i>Veritas Cluster Server Agent Developer's Guide</i> | vcs_agent_dev.pdf |
| <i>Veritas Cluster Server Enterprise Agent for Oracle Installation and Configuration Guide</i> | vcs_oracle_install.pdf |
| Veritas Storage Foundation | |
| <i>Veritas Storage Foundation Release Notes</i> | sf_notes.pdf |
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| <i>Veritas Storage Foundation Intelligent Storage Provisioning Solutions Guide</i> | sf_isp_solutions.pdf |
| <i>Veritas Volume Manager Cross-platform Data Sharing Administrator's Guide</i> | sf_cds_admin.pdf |
| <i>Veritas FlashSnap Point-in-Time Copy Solutions Administrator's Guide</i> | flashsnap_admin.pdf |
| Veritas Volume Manager | |
| <i>Veritas Volume Manager Administrator's Guide</i> | vxvm_admin.pdf |
| <i>Veritas Volume Manager Troubleshooting Guide</i> | vxvm_tshoot.pdf |
| Veritas File System | |
| <i>Veritas File System Administrator's Guide</i> | vxfs_admin.pdf |

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ACE (The Adaptive Communication Environment)

TAO

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Digital Encryption Standard (DES) - MIT

MIT and Dennis Ferguson

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Expat XML Parsing Library

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However, linking a “work that uses the Library” with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a “work that uses the library”. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a “work that uses the Library” uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a “work that uses the Library” with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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For an executable, the required form of the “work that uses the Library” must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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JavaTip87: Automate the Hourglass Cursor

Kyle Davis

Portions of this code taken from an article available as of 2/02/02 on the JavaWorld Internet site, entitled Javatip87: Automate the HourGlass Cursor" by Kyle Davis.

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Sockets++ library

University of Texas

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