



SunForum™ 3D Software Installation Guide

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SunForum 3D Software Installation

This guide describes how to install the SunForum™ 3D conferencing software for Sun™ systems.

- System Requirements
- SunForum CD Directories and Software Packages
- OpenGL Patches
- Installing SunForum 3D
- Optimizing the Video Display
- Accessing Online Documentation

System Requirements

- Solaris™ 8 operating environments, or a subsequent compatible version
- Sun computer workstation running Solaris/SPARC
- Sun OpenGL® 1.3 for Solaris, or a subsequent compatible version
- Latest OpenGL patches (see OpenGL Patches)
- Sun Ultra™, Sun Blade™, or Sun Ray™ desktop systems. Sun Ray appliances require Sun Ray server software version 1.2 or later version
- At least one other Sun workstation to call and/or collaborate
- Requires installer to have a basic knowledge for Solaris/CDE environment installation procedures

Supported Sun graphics accelerators include:

Sun XVR-4000	Sun XVR-500	Sun Expert3D-Lite	Sun PGX64
Sun XVR-1200	Sun XVR-100	Sun Elite3D	Sun PGX32
Sun XVR-1000	Sun Expert3D	Sun Creator3D	

SunForum CD Directories and Software Packages

The SunForum CD directories are located in `/cdrom/sunforum_3D`

TABLE 1 SunForum CD Directories

Directory Name	Description
Copyright	U.S. version of copyright
FR_Copyright	French version of copyright
Docs	PDF files of installation and user guides
Packages	Contains the SunForum packages: <code>SUNWdat</code> , <code>SUNWdatu</code> , <code>SUNWxxdat</code> , <code>SUNWkeep</code> , <code>SUNWsf3d</code> , and <code>SUNWphone</code>

Where `xx` in `SUNWxxdat` is the package of the translated SunForum 3D software (TABLE 3).

TABLE 2 SunForum 3D Software Package Names

SunForum Localized Package Names	Description
<code>SUNWdat</code>	SunForum Core Application
<code>SUNWdatu</code>	SunForum Xserver Extension and Runtime Libraries with 3D Add-on Capability
<code>SUNWsf3d</code>	SunForum 3D Add-on Scripts and Binaries
<code>SUNWkeep</code>	SunKeeper Core Application
<code>SUNWphone</code>	SunForum Phone Interface Software

TABLE 3 Optional Localized SunForum 3D Software Package Names

SunForum Localized Package Names	Description
<code>SUNWfrdat</code>	French (fr) Localization for SunForum
<code>SUNWdedat</code>	German (de) Localization for SunForum
<code>SUNWitdat</code>	Italian (it) Localization for SunForum
<code>SUNWesdat</code>	Spanish (es) Localization for SunForum

TABLE 3 Optional Localized SunForum 3D Software Package Names (*Continued*)

SunForum Localized Package Names	Description
SUNWsvdat	Swedish (sv) Localization for SunForum
SUNWjdat	Japanese (ja-EUC) Localization for SunForum
SUNWjpd	Japanese (ja_JP.PCK) Localization for SunForum
SUNWkod	Korean (ko) Localization for SunForum
SUNWcd	Simplified Chinese (zh-EUC) Localization for SunForum
SUNWhd	Traditional Chinese (zh_TW-EUC) Localization for SunForum
SUNW5d	Traditional Chinese (zh_TW.BIG5) Localization for SunForum

TABLE 4 SunForum Software Package Directory Location

SunForum Package	Directory Location
SUNWdat	/opt
SUNWdatu	/usr/openwin
SUNWxxdat	/opt
SUNWkeep	/opt
SUNWphone	/opt
SUNWsf3d	/opt

OpenGL Patches

OpenGL patches 113886-07 (32-bit) and 113887-07 (64-bit), or later version, are required.

Note – Always check for the latest software patches at:
<http://sunsolve.sun.com/>

Updated versions of Sun OpenGL for Solaris are available at:
<http://www.sun.com/software/graphics/OpenGL/>

Installing SunForum 3D

The following describes downloading the SunForum 3D software.

Downloading SunForum 3D

You may download SunForum 3D from either your CD-ROM provided with your SunForum 3D Installation Kit or from the Sun web site.

▼ To Install SunForum 3D

The SunForum 3D installer program prompts you for your superuser password if you are not logged in as root.

1. **After inserting the SunForum 3D CD into the CD-ROM, become superuser in a shell window, go to `/cdrom/sunforum/3D` and run the `install` program:**

```
# cd /cdrom/sunforum/3D
# ./install
```

When installed, the following is displayed:

```
*** Installing SunForum 3D packages...
*** Installation complete. A log of this installation can be found at:
/var/tmp/SunForum3D.install.2003.05.27
```

2. **Log out of (exit) your workstation.**

This restarts your Xserver.

Note – You *must* restart the X server before running SunForum 3D.

3. **Log into the window system at the login prompt.**
4. **Start `sunforum` to verify installation by typing:**

```
% /opt/SUNWdat/bin/sunforum
```

▼ To Download SunForum3D From the Sun Web Site

SunForum 3D can be downloaded from:

<http://www.sun.com/desktop/products/software/sunforum/>

Follow the software download instructions. The installer program is called `install`.

Optimizing the Video Display

SunForum 3D uses X shared memory features to display the images from the shared application on the remote/viewing side. On the Solaris 8 operating environment, the default size of the maximum shared memory segment is 1 Mbyte which is not sufficient if the image size is greater than 512×512 . The minimum required size is typically $\text{max-width} \times \text{max-height} \times 4$ (for example, for a 1024×1024 window size, the minimum shared memory size required is 4 Mbytes).

Note – The default for maximum shared memory size on the Solaris 9 operating environment is 8 Mbytes. This amount of memory is sufficient for most cases and does not require the following steps to enhance performance.

For better performance of video displays, you need to increase the shared memory pool size to at least 16 Mbytes and the maximum number of shared memory segments per process to at least 32. To do this,

1. **Become superuser and backup your `/etc/system` file.**

Note – You *must* backup this file before proceeding.

2. **Add the following line to the `/etc/system` file:**

```
set shmsys:shminfo_shmmax=16777216
set shmsys:shminfo_shmseg=32
```

Note – If the above value is already set, make sure that you are *not* decreasing them.

3. **Reboot your system.**

Accessing Online Documentation

1. Choose **Help** ► **Help Topics** from the main SunForum 3D window.
2. Click **Online Docs** at the title bar.

Accessing Sun Documentation

You can view, print, or purchase a broad selection of Sun documentation, including localized versions, at:

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