

Installing Galaxy Custom Designer®

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Installing Custom Designer

This document contains specific information to prepare for and verify installation of Custom Designer, as well as links to installation instructions.

The installation instructions in this document are the most up-to-date instructions available at the time of production. However, changes might have occurred. For the latest installation information, see the product release notes or documentation.

This document contains the following sections:

- [Media Availability and Supported Platforms](#)
- [Disk Space Requirements](#)
- [Installing the Software](#)
- [Setting Up the User Environment](#)
- [Verifying the Custom Designer Installation](#)
- [Accessing Custom Designer Documentation](#)

Media Availability and Supported Platforms

The Custom Designer tool is available on CD or by electronic software transfer (EST) download or as tangible media (DVD or CD, depending on the image size). Obtain the appropriate binary executable files based on the operating system you need.

[Table 1](#) lists the supported compute platforms, operating systems, corresponding Synopsys platform keywords, and window environments for this release. Many platforms require operating system patches.

For detailed information, see the Supported Platforms Guide page on the Synopsys Web site. Go to <http://www.synopsys.com/qsc> and select the appropriate foundation for your release. This Web page provides information about supported hardware, operating systems, and required OS patches. If the

Installing Custom Designer

Disk Space Requirements

required patch described on this page is not available from the platform vendor, install the most recent patch instead.

Table 1 Supported Platforms and Keywords

Platform	Operating system	Synopsys platform keyword	Window environment
x86_64	Red Hat Enterprise Linux v4, 5 ¹	amd64 (64-bit mode) linux (32-bit mode) ²	GNOME
x86	Red Hat Enterprise Linux v4, 5 ¹	linux (32-bit mode) ²	GNOME

1. Binary-compatible hardware platform or operating system. Note, however, that binary compatibility is not guaranteed. See <http://www.synopsys.com/qsc> for the latest information on supported platforms.

2. The 32-bit (x86) and 64-bit (x86_64) Linux software is binary compatible with the Intel EM64T or AMD Opteron running Red Hat Enterprise Linux. See <http://www.synopsys.com/products/platforms> for the latest information.

The Custom Designer software is configured so that multiple platforms of this version can be installed in a single installation directory (*install_dir*). See [Specifying the Custom Designer Platform Version](#) for more information.

Disk Space Requirements

Make sure you have enough disk space for Custom Designer installation. For a full installation on one platform, 500 MB is recommended. The disk space requirement varies depending on the platform and the tool selected for installation. [Table 2](#) shows the maximum space required for installing each product on a particular platform.

Table 2 Disk Space Requirements (in Megabytes)

Synopsys Platform Keyword	.tar File	Installed Space
common	50	120
amd64	334	569
linux	300	489

Installing the Software

Custom Designer uses the Synopsys Installer tool, which allows you to use a graphical user interface (GUI) or a text script. For information about downloading Synopsys Installer and Custom Designer, see *Installing Synopsys Tools*, available at http://www.synopsys.com/support/installation/install_guide.html.

To install Custom Designer by EST or from the CD, follow the procedures described in *Installing Synopsys Tools*.

Note: Synopsys tools should be installed by your CAD team.

Installing Synopsys Tools shows an example Synopsys media installation script for the synthesis tools. Custom Designer is installed in a similar manner.

Custom Designer is a stand-alone product and cannot be installed over an existing Synopsys product. You can either create a new directory for Custom Designer yourself or you can let the installer create the directory.

Caution: Although Custom Designer can be installed over a prior version of Custom Designer, the results are unpredictable.

Setting Up the User Environment

A platform-independent wrapper script is provided for Custom Designer. This script automatically determines the OS platform at runtime, which simplifies the setup required to use Custom Designer.

The platform-independent wrapper script is located at *install-dir/bin* and includes `-32bit` and `-64bit` options.

Note: If the platform executable file cannot be found, the script fails and a message informs you that the executable file is not available.

Setting up the user environment is described in these sections:

- [Specifying the Executable File Location](#)
- [Setting the License File Environment Variable](#)
- [Specifying the Custom Designer Platform Version](#)

Specifying the Executable File Location

Add the Custom Designer directory containing the executable file to the `PATH` environment variable.

- If you are using the C shell, add the following line to the `.cshrc` file:

```
set path=(install_dir/bin $path)
```
- If you are using the Bourne, Korn, or Bash shell, add the following line to the `.profile`, `.kshrc`, or `.bashrc` file:

```
PATH=install_dir/bin:$PATH
export PATH
```

Setting the License File Environment Variable

You must install the Synopsys Common Licensing (SCL) software, retrieve your license key file, and define the `SNPSLMD_LICENSE_FILE` environment variable before you can verify the Custom Designer installation.

For information about downloading and installing SCL and on setting the license variable, see the *Synopsys Licensing QuickStart Guide*, which is available from <http://www.synopsys.com/Support/Licensing/Licensing/Pages/default.aspx>.

Specifying the Custom Designer Platform Version

In the case of multiple versions of Custom Designer having been installed in the same directory, you can use the `SYNOPSIS_CUSTOM_PLATFORM` variable to specify which Custom Designer platform version you want to use, as shown in the following example:

```
setenv SYNOPSIS_CUSTOM_PLATFORM [ amd64 | linux | suse32 | suse64 ]
```

Verifying the Custom Designer Installation

To verify the Custom Designer installation,

1. Make sure you are in a directory where you have read/write privileges.

```
% cd $HOME
```

2. Invoke the tool by entering

```
% cdesigner -help
```

If you see information about the product version, production date, and copyright, the installation was successful.

Accessing Custom Designer Documentation

The documentation for Custom Designer is available as PDF files or as online help as described in the following sections:

- [Viewing and Printing Custom Designer Documentation in Portable Document Format](#)
- [Setting MIME Types to View PDFs from Help](#)

Viewing and Printing Custom Designer Documentation in Portable Document Format

To view and print Custom Designer documentation in PDF, you must have Adobe Acrobat Reader installed on your machine.

Viewing Custom Designer Online Help

The online Help system is a browser-based HTML Help system.

To view a Help system, Synopsys recommends the following minimum revisions web browsers on the Synopsys-supported platforms (later versions should also work):

Platform	Operating Systems	Supported Browsers
X86 (IA-32) 32-bit & Linux 32-bit	Red Hat Enterprise Linux 4 or 5	Firefox 1.5, 2.0, 3.0 ¹ Mozilla 1.7 Netscape Navigator 7.0

Platform	Operating Systems	Supported Browsers
X86_64 Linux 64-bit	Red Hat Enterprise Linux 4 or 5	Firefox 1.5, 2.0, 3.0 ¹ Mozilla 1.7 Netscape Navigator 7.0

1. *Synopsys recommends using Firefox 3.0 builds 2008052912 or later on Linux.*

Setting a Default Browser on UNIX or Linux

The Help system searches for HTML browsers on UNIX or Linux systems as follows:

1. Searches for the browser associated with the Synopsys Help browser variable, `SNPS_BROWSER`. The value is a browser executable with full pathname.
2. Searches for the browser associated with the UNIX system variable, `BROWSER`. The value is a browser executable with full pathname.
3. *Optional:* Searches for the browser associated with a preference or other command setting provided by your Synopsys application.
4. Searches for the following browser executables, in order, in your `PATH`:

```
firefox  
seamonkey  
netscape6  
netscape  
mozilla  
iexplorer  
konqueror  
epiphany
```

5. Searches for the executables in each of the following locations in order:

For `firefox` and then for `seamonkey`:

```
/opt/browser/  
/usr/bin/  
/usr/bin/browser  
/usr/local/browser  
/usr/local/bin/  
/usr/local/bin/browser/
```

For `netscape6`, then for `netscape`, and then for `mozilla`:

```
/opt/browser/  
/usr/local/bin/  
/usr/local/browser  
/usr/bin/browser/  
/usr/dt/bin
```

For iexplorer:

```
/usr/local/microsoft/bin
```

For konqueror and then for epiphany:

```
/opt/browser/  
/usr/bin/  
/usr/bin/browser  
/usr/local/browser  
/usr/local/bin/  
/usr/local/bin/browser/
```

To set the default browser, you can do either of the following:

- Use the appropriate UNIX or Linux command to set one of the variables described above. For example, in UNIX csh shell or LINUX BSD:

```
setenv SNPS_BROWSER /usr/bin/firefox
```

In UNIX or Linux sh, bash, or ksh:

```
export SNPS_BROWSER=/usr/bin/firefox
```

- Use your Synopsys application's preference setting or command, if any, to set the default. The preference setting or command name varies between applications. Some applications do not provide this setting, but rely on the variables described previously. Check your application documentation for information about setting a default Help browser.

Setting MIME Types to View PDFs from Help

Online Help includes PDF versions of the documents, for use in printing. In order for links from the Help to the PDF to work, you must set an association in your browser for MIME type "application/pdf" with an appropriate PDF viewer for your platform. See the documentation for your particular browser for specific instructions on creating MIME-type associations.

Installing Custom Designer
Accessing Custom Designer Documentation