

Formality[®] Installation Notes

Version D-2010.03

March 8, 2010

These installation notes present information about installing Formality version D-2010.03 in the following sections:

- [Media Availability and Supported Platforms](#)
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Note:

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

To obtain the latest product Installation Guide, go to <http://www.synopsys.com/install>. For detailed licensing setup and troubleshooting assistance, see the *Licensing QuickStart Guide* at <http://www.synopsys.com/licensing>.

Media Availability and Supported Platforms

Formality is available by electronic software transfer (EST) download upon initial software release, and at a later date on DVD (or CD depending on image size).

[Table 1](#) shows the supported compute platforms, operating systems, Synopsys platform keywords, and windowing environments for this release.

Table 1 Supported Platforms, Operating Systems, and Keywords

Compute platform	Operating system	Synopsys platform keyword	Desktop windowing environment
x86_64	Red Hat Enterprise Linux v4, 5 ¹	amd64 (64-bit mode) ² linux (32-bit mode) ²	GNOME
x86_64	SUSE Linux Enterprise Server v9, 10 ¹	suse64 (64-bit mode) suse32 (32-bit mode)	KDE
x86_64	Solaris 10	x86sol64 (64-bit mode) x86sol32 (32-bit mode)	CDE
x86	Red Hat Enterprise Linux v4, 5 ¹	linux (32-bit mode) ²	GNOME
x86	SUSE Linux Enterprise Server v9,10 ¹	suse32 (32-bit mode)	KDE
Sun SPARC	Solaris 9, 10 ¹	sparc64 (64-bit mode) sparcOS5 (32-bit mode)	CDE

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 on supported platforms, including required OS patches.*

2. *The 32-bit (x86) and 64-bit (x86_64) Linux software is binary compatible with the Intel or AMD x86_64 processors running Red Hat Enterprise Linux.*

For detailed platform support information, see the Release Specific Support page on the Synopsys Qualified System Configuration Web site at the following address:

<http://www.synopsys.com/qsc>

This Web page provides release-specific information about supported hardware, operating systems, and required operating system patches. If the required patch described on this page is not available from the platform vendor, install the most recent patch instead.

Synopsys products, including the Synopsys Installer, have been verified against the supported platforms as listed in [Table 1](#).

Disk Space and Memory Requirements

The disk space requirement depends on the platform. [Table 2](#) shows the minimum space required for installing Formality on a particular platform.

Table 2 Disk Space Requirements (in Megabytes)

Synopsys platform keyword	Megabytes
common (platform-independent files)	76
amd64	106
linux	106
suse64	105
suse32	105
x86sol64	120
x86sol32	120
sparc64	135
sparcOS5	135
aix64	175

The recommended minimum physical memory is 4 GB.

Installing the Software

Formality uses the Synopsys Installer, which allows you to use a text script or a graphical user interface (GUI). For information about downloading the Synopsys Installer, see *Installing Synopsys Tools*, which is available at the following address:

<http://www.synopsys.com/install>

To install Formality, follow the procedures described in *Installing Synopsys Tools*. Formality is a standalone product and must be installed in an empty directory, using the latest version of the Synopsys Installer. Do not install Formality over an existing Synopsys product, including prior versions of Formality.

Setting Up the User Environment

To set up the user environment, you must specify the location of the executable file and set the license file environment variable.

Specifying the Executable File Location

A platform-independent wrapper script is provided for Formality. This script automatically determines the operating system platform at runtime, which simplifies the setup required to use Formality.

The platform-independent wrapper script is located at *install_dir/bin* and includes the following options:

```
-32bit | -64bit
```

To set up the environment by using the platform-independent wrapper script, add the Formality bin directory to the `PATH` environment variable.

- To set up the environment using the C shell, add the following line to the `.cshrc` file:

```
set path=(install_dir/bin $path)
```

- To set up the environment using the Bourne, Korn, or Bash shell, add the following lines to the `.profile`, `.kshrc`, or `.bashrc` file:

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

Replace *install_dir* with the Formality installation directory.

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` or `LM_LICENSE_FILE` environment variable before you can verify the Formality installation.

For information about downloading SCL, installing SCL, or setting the license file variable, see the *Synopsys Licensing QuickStart Guide*, which is available at the following address:

<http://www.synopsys.com/licensing>

Verifying the Formality Installation

To verify the Formality installation,

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

```
% cd $HOME
```

2. Invoke the tool by entering one of the following commands on a licensed machine.

- To start Formality in shell mode, enter

```
% install_dir/bin/fm_shell
```

- To start Formality in GUI mode, enter

```
% install_dir/bin/fm_shell -gui
```

Replace *install_dir* with the Formality installation directory.

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