

# Installing HSIPlus®

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**SYNOPSYS®**

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## Installing HSI<sup>M</sup>plus

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This document contains specific information to prepare for and verify installation of HSI<sup>M</sup>plus, as well as links to installation instructions.

**Note:** 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 HSI<sup>M</sup>plus Installation](#)

To install Synopsys tools, it is recommended that you have system administrator privileges. You need write permission for the installation directory.

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## Media Availability and Supported Platforms

The HSI<sup>M</sup>plus tool is available 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 (OS) 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.

## Installing HSI<sup>M</sup>plus

### Media Availability and Supported Platforms

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

Table 1 Supported Platforms, Operating Systems, and Keywords

Platform	Operating system	Synopsys platform keyword
x86_64	Red Hat Enterprise Linux v4, 5 <sup>1</sup>	amd64 (64-bit mode) linux (32-bit mode) <sup>2</sup>
x86_64	SUSE Linux Enterprise Server v9, 10 <sup>1</sup>	suse64 (64-bit mode) suse32 (32-bit mode)
x86_64	Solaris 10	x86sol64 (64-bit mode) x86sol32 (32-bit mode)
x86	Red Hat Enterprise Linux v4, 5 <sup>1</sup>	linux (32-bit mode) <sup>2</sup>
x86	SUSE Linux Enterprise Server v9, 10 <sup>1</sup>	suse32 (32-bit mode)
Sun SPARC	Solaris 9, 10 <sup>1</sup>	sparc64 (64-bit mode) sparcOS5 (32-bit mode)
IA-32 (X86)	Windows XP, Vista	win32 (32-bit mode)

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/qsc> for the latest information on supported platforms.

**Note:** The HSI<sup>M</sup>plus software is configured so that multiple platforms of this version can be installed in a single installation directory (*install\_dir*).

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## Disk Space Requirements

Make sure you have enough disk space for HSI<sup>M</sup>plus installation. For a full installation on one platform, 2 GB is recommended. Windows XP requires an additional 50 MB. For a single platform, 500 MB is recommended for 32-bit platforms and 1000 MB for 64-bit platforms. 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	Megabytes
Platform-independent files (Base MB)	
amd64	660
linux	410
sparcOS5	450
sparc64	430
suse32	400
suse64	430
x86sol32	500
x86sol64	650
win32	100

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## Installing the Software

HSI<sup>M</sup>plus 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 HSI<sup>M</sup>plus, see *Installing Synopsys Tools*, available at [http://www.synopsys.com/support/installation/install\\_guide.html](http://www.synopsys.com/support/installation/install_guide.html).

## Installing HSI<sup>M</sup>plus

### Setting Up the User Environment

To install HSI<sup>M</sup>plus, follow the procedures described in [Installing Synopsys Tools](#).

[Installing Synopsys Tools](#) shows an example Synopsys media installation script for the synthesis tools. HSI<sup>M</sup>plus is installed in a similar manner.

HSI<sup>M</sup>plus is a stand-alone product and cannot be installed over an existing Synopsys product, including a prior version of HSI<sup>M</sup>plus. You must create a new directory for HSI<sup>M</sup>plus.

To install HSI<sup>M</sup>plus on the Windows XP platform, respond as necessary to the installer screens for the self-extracting executable file.

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## Setting Up the User Environment

A platform-independent wrapper script is provided for HSI<sup>M</sup>plus. This script automatically determines the OS platform at runtime, which simplifies the setup required to use HSI<sup>M</sup>plus.

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

**Note:** If you select a platform executable file that is not available, an automatic switch is made to an available platform based on your current environment. No warning message is issued.

Setting up the user environment is described in these sections:

- [Specifying the Executable File Location](#)
- [Setting the License File Environment Variable](#)

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### Specifying the Executable File Location

Add the HSI<sup>M</sup>plus 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 or .kshrc file:

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

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## 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 HSIM<sup>plus</sup> 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>.

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## Verifying the HSIM<sup>plus</sup> Installation

To verify the HSIM<sup>plus</sup> installation,

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

```
% cd $HOME
```

2. To run HSIM<sup>plus</sup> and check out a license, enter

```
% hsim test.sp
```

where `test.sp` is a nonexistent file.

If an HSIM<sup>plus</sup> banner appears with no license error message, the installation was successful. The binary file was executed and a license was checked out even though you see the following error message:

```
"Error: cannot open file "test.sp"
```

**Note:** To run 64-bit binary files, set the `HSIM_64` environment variable to 1.

**Installing HSIM<sup>plus</sup>**

Verifying the HSIM<sup>plus</sup> Installation