

Installing HSIPlus

Version A-2008.03, March 2008

SYNOPSYS®

Copyright Notice and Proprietary Information

Copyright © 2008 Synopsys, Inc. All rights reserved. This software and documentation contain confidential and proprietary information that is the property of Synopsys, Inc. The software and documentation are furnished under a license agreement and may be used or copied only in accordance with the terms of the license agreement. No part of the software and documentation may be reproduced, transmitted, or translated, in any form or by any means, electronic, mechanical, manual, optical, or otherwise, without prior written permission of Synopsys, Inc., or as expressly provided by the license agreement.

Right to Copy Documentation

The license agreement with Synopsys permits licensee to make copies of the documentation for its internal use only. Each copy shall include all copyrights, trademarks, service marks, and proprietary rights notices, if any. Licensee must assign sequential numbers to all copies. These copies shall contain the following legend on the cover page:

“This document is duplicated with the permission of Synopsys, Inc., for the exclusive use of _____ and its employees. This is copy number _____.”

Destination Control Statement

All technical data contained in this publication is subject to the export control laws of the United States of America. Disclosure to nationals of other countries contrary to United States law is prohibited. It is the reader's responsibility to determine the applicable regulations and to comply with them.

Disclaimer

SYNOPSYS, INC., AND ITS LICENSORS MAKE NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH REGARD TO THIS MATERIAL, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Registered Trademarks (®)

Synopsys, AMPS, Cadabra, CATS, CRITIC, CSim, Design Compiler, DesignPower, DesignWare, EPIC, Formality, HSIM, HSPICE, iN-Phase, in-Sync, Leda, MAST, ModelTools, NanoSim, OpenVera, PathMill, Photolynx, Physical Compiler, PrimeTime, SiVL, SNUG, SolvNet, System Compiler, TetraMAX, VCS, Vera, and YIELDirector are registered trademarks of Synopsys, Inc.

Trademarks (™)

AFGen, Apollo, Astro, Astro-Rail, Astro-Xtalk, Aurora, AvanWaves, Columbia, Columbia-CE, Cosmos, CosmosEnterprise, CosmosLE, CosmosScope, CosmosSE, DC Expert, DC Professional, DC Ultra, Design Analyzer, Design Vision, DesignerHDL, Direct Silicon Access, Discovery, Encore, Galaxy, HANEX, HDL Compiler, Hercules, Hierarchical Optimization Technology, HSIM^{plus}, HSPICE-Link, iN-Tandem, i-Virtual Stepper, Jupiter, Jupiter-DP, JupiterXT, JupiterXT-ASIC, Liberty, Libra-Passport, Library Compiler, Magellan, Mars, Mars-Xtalk, Milkyway, ModelSource, Module Compiler, Planet, Planet-PL, Polaris, Power Compiler, Raphael, Raphael-NES, Saturn, Scirocco, Scirocco-i, Star-RCXT, Star-SimXT, Taurus, TSUPREM-4, VCS Express, VCSi, VHDL Compiler, VirSim, and VMC are trademarks of Synopsys, Inc.

Service Marks (SM)

MAP-in, SVP Café, and TAP-in are service marks of Synopsys, Inc.

SystemC is a trademark of the Open SystemC Initiative and is used under license.

ARM and AMBA are registered trademarks of ARM Limited.

Saber is a registered trademark of SabreMark Limited Partnership and is used under license.

All other product or company names may be trademarks of their respective owners.

Printed in the U.S.A.

Installing HSIMplus, A-2008.03

Installing HSI^Mplus

This document describes how to install the HSI^Mplus product.

Note:

The installation instructions in this document 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.

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^Mplus Installation](#)

Media Availability and Supported Platforms

HSI^Mplus is available on CD or by EST download. Obtain the appropriate binary executable files based on the operating system you need. Table 1 shows the supported platforms for the A-2007.12 release. This release of HSI^Mplus is not supported on Pentium III CPU systems.

Table 1 Supported Platforms and Keywords

Platform	Operating system	Synopsys platform keyword
AMD Opteron	Red Hat Enterprise Linux v3 (Update 5), v4 ¹ (Update 1)	amd64 (64-bit mode) linux (32-bit mode) ¹

Installing HSI^Mplus

Disk Space Requirements

Table 1 Supported Platforms and Keywords (Continued)

Platform	Operating system	Synopsys platform keyword
EMT64T	SUSE Enterprise Linux 9 (SP1)	suse64 (64-bit mode) suse32 (32-bit mode)
IA-32 (X86)	Red Hat Enterprise Linux v3 (Update 5), v4 ¹ (Update 1)	linux (32-bit mode)
Itanium 2	Red Hat Enterprise Linux 2.1	linuxipf (64-bit mode)
Sun SPARC	Solaris 9, 10 ²	sparcOS5 (32-bit mode) sparc64 (64-bit mode)

1. The 32-bit (x86) Linux software is binary compatible with AMD Opteron running Red Hat Enterprise Linux. Note, however, that binary compability is not guaranteed.

2. Binary-compatible hardware platform or operating system. Note, however, that binary compatibility is not guaranteed.

Disk Space Requirements

Make sure you have enough disk space for the installation. For a full installation on all platforms, 2 GB is recommended. For a single platform installation, 250 MB is recommended for 32-bit platforms and 500 MB for 64-bit platforms. However, 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)

Operating system	Megabytes
Platform-independent files	
amd64	400
linux	200

Table 2 Disk Space Requirements (in Megabytes) (Continued)

Operating system	Megabytes
linuxipf	100
sparcOS5 (32-bit mode)	250
sparc64 (64-bit mode)	500
suse32 (32-bit mode)	150
suse64 (64-bit mode)	200

Installing the Software

HSI^Mplus 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^Mplus, see *Installing Synopsys Tools*, available at <http://www.synopsys.com/support/install>.

To install HSI^Mplus by EST or from the CD, follow the procedures described in *Installing Synopsys Tools*.

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

HSI^Mplus is a stand-alone product and cannot be installed over an existing Synopsys product, including a prior version of HSI^Mplus. You must create a new directory for HSI^Mplus.

Setting Up the User Environment

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

Specifying the Executable File Location

Add the HSI^Mplus 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
```

Setting the SNPSLMD_LICENSE_FILE Environment Variable

You must install the SCL software and define the `SNPSLMD_LICENSE_FILE` variable before you can verify the HSI^Mplus installation.

For information about downloading and installing SCL and on setting the license variable, see [Installing Synopsys Tools](#).

Verifying the HSI^Mplus Installation

To verify the HSI^Mplus installation,

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

```
% cd $HOME
```

2. To run HSI^Mplus and check out a license, enter

```
% hsim test.sp
```

where `test.sp` is a nonexistent file.

If an HSI^Mplus 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 HSI^Mplus

Verifying the HSI^Mplus Installation