

Installing Hercules

Version Y-2006.12, December 2006

SYNOPSYS®

Copyright Notice and Proprietary Information

Copyright © 2007 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 Hercules, Y-2006.12

Installing Hercules

This chapter describes how to install the Hercules product.

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.

This chapter contains the following sections:

- [Media Availability and Supported Platforms](#)
- [Disk Space Requirements](#)
- [Installing the Software](#)
- [Setting Up the User Environment](#)
- [Verifying the Hercules Installation](#)
- [Viewing and Printing Hercules Documentation in Portable Document Format](#)

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

Installing Hercules

Media Availability and Supported Platforms

Media Availability and Supported Platforms

The Hercules tool is available on CD or by EST. Obtain the appropriate binary executable files based on the operating system you need. Table 1 shows the supported platforms for the Y-2006.12 release.

Table 1 Supported Platforms and Keywords

Platform	Operating system	Synopsys platform keyword	Path keyword
AMDOpteron	Red Hat Enterprise Linux v3, 4	amd64 (64-bit mode)	AMD64_L24
EM64T	SUSE Enterprise Linux 9	suse32 (32-bit mode) suse64 (64-bit mode)	SUSE.32 SUSE.64
IA-32 (X86)	Red Hat Enterprise Linux v3, 4	linux (32-bit mode)	IA32_L24
IBM RS/6000	AIX 5.3	aix64 (64-bit mode)	RS64_AIX53
Itanium 2	Red Hat Enterprise Linux 2.1	linuxipf (64-bit mode)	IA64_L24
Sun SPARC	Solaris 9, 10	sparcOS5 (32-bit mode)	SUN32_58 SUN64_58

Note:

The Hercules software is configured so that multiple platforms of this version can be installed in a single installation directory (*install_dir*).

Disk Space Requirements

Make sure you have enough disk space for Hercules-Explorer and Hercules-VUE installation. For a full installation on one platform, 380 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)*

Operating system	Megabytes
Platform-independent files (Base MB)	110
Sun Solaris 32-bit	250
Sun Solaris 64-bit	210
Red Hat Linux 32-bit	220
Red Hat Enterprise Linux 64-bit	220
AMD 64-bit	240
AIX 5.3 RS 64-bit	270

Installing the Software

Hercules 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 Hercules, see *Installing Synopsys Tools*, available at <http://www.synopsys.com/install>.

To install Hercules 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. Hercules is installed in a similar manner.

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

Setting Up the User Environment

To set up the user environment, you must modify the `hercules_setup.csh` and `hercules_setup.sh` files and set the license environment variable.

Specifying the Executable File Location

Set the `$HERCULES_HOME_DIR` environment variable by replacing the `<TOP-LEVEL-INSTALL-DIR>` text in the `install_dir/hercules_setup.csh` and `install_dir/hercules_setup.sh` files with `install_dir`.

- If you are using the C shell, modify the following line:

```
setenv HERCULES_HOME_DIR <TOP-LEVEL-INSTALL-DIR>
```

For example,

```
setenv HERCULES_HOME_DIR /usr/synopsys/hercules/version
```

- If you are using the Bourne shell, modify the following line:

```
HERCULES_HOME_DIR=<TOP-LEVEL-INSTALL-DIR>
```

For example,

```
HERCULES_HOME_DIR=/usr/synopsys/hercules/version
```

Setting the `SNPSLMD_LICENSE_FILE` or `LM_LICENSE_FILE` Environment Variable

You must install the SCL software and define the `SNPSLMD_LICENSE_FILE`, `LM_LICENSE_FILE`, or another tool-specific variable before you can verify the Hercules installation.

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

Verifying the Hercules Installation

To verify the Hercules installation,

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

```
% cd $HOME
```

2. Invoke the tool by entering

```
% hercules -V
```

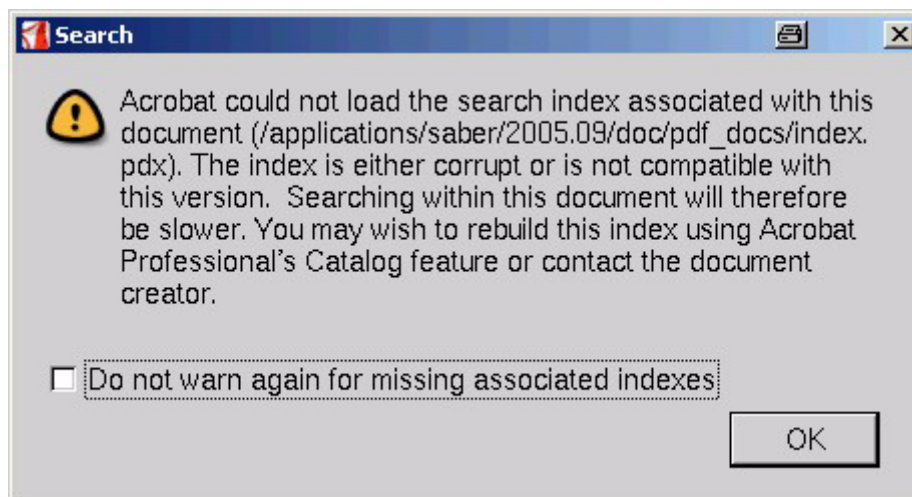
If you see information about the product version, production date, and copyright, the installation was successful.

Viewing and Printing Hercules Documentation in Portable Document Format

To view and print Hercules documentation in Portable Document Format (PDF), you must have Adobe Acrobat Reader installed on your machine. To determine which version of Adobe your operating system requires, see [Table 3 on page 8](#).

Adobe Reader Full-Text Search Issue on UNIX

When you do a full-text search of Hercules documentation on UNIX operating systems, you might see the following error message:



Installing Hercules

Viewing and Printing Hercules Documentation in Portable Document Format

The file mentioned in the message, `index.pdx`, is a full-text search index that lets you search a collection of manuals shipped with your release. This message appears when your version of Adobe Reader cannot use the version of the full-text search index provided.

You can use Hercules documentation without the full-text search feature. All other features, including searches within a single document, still work. The only task you will not be able to do is to search more than one document in the collection.

Table 3 shows which version of Adobe Reader you need to use with a particular release. It also indicates whether full-text search is available for a particular platform and release.

Table 3 Platform and Supported Version

Platform	Product documentation version	Full-text search available	Adobe Reader version
IBM RS/6000 (AIX)	Y-2006.03, Y-2006.06 or later	No	Adobe Reader 5.0 or earlier
	X-2005.12 or earlier	Yes	Adobe Reader 5.0 or earlier
Linux	Y-2006.03, Y-2006.06 or later	Yes	Adobe Reader 7.0
	X-2005.12 or earlier	No	Any version
Sun SPARC (Solaris) ¹	Y-2006.03, Y-2006.06 or later	Yes	Adobe Reader 7.0
	X-2005.12 or earlier	Yes	Adobe Reader 5.0 or earlier
Windows	Y-2006.03, Y-2006.06 or later	Yes	Adobe Reader 6.0 or 7.0
	X-2005.12 or earlier	Yes	Any version

1. On Solaris operating systems, the GNOME desktop manager must be installed to support Adobe Reader 7.0.

For detailed information, see SolvNet article 017761, “An Error Message Appears When Doing a Full-text Search of Synopsys Product Documentation.”