

Installing Proteus MetroKit

Version B-2008.12-SP1, June 2009

SYNOPSYS®

Copyright Notice and Proprietary Information

Copyright © 2009 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

SYNOPSIS, 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, Astro, Behavior Extracting Synthesis Technology, Cadabra, CATS, Certify, CHIPit, Design Compiler, DesignWare, Formality, HDL Analyst, HSIM, HSPICE, Identify, iN-Phase, Leda, MAST, ModelTools, NanoSim, OpenVera, PathMill, Physical Compiler, PrimeTime, SCOPE, Simply Better Results, SiVL, SNUG, SolvNet, Syndicated, Synplicity, the Synplicity logo, Synplify, Synplify Pro, Synthesis Constraints Optimization Environment, TetraMAX, UMRBus, VCS, Vera, and YIELDirector are registered trademarks of Synopsys, Inc.

Trademarks (™)

AFGen, Apollo, Astro-Rail, Astro-Xtalk, Aurora, AvanWaves, BEST, Columbia, Columbia-CE, Confirma, Cosmos, CosmosLE, CosmosScope, CRITIC, CustomSim, DC Expert, DC Professional, DC Ultra, Design Analyzer, Design Vision, DesignerHDL, DesignPower, DFTMAX, Direct Silicon Access, Discovery, Eclipse, Encore, EPIC, Galaxy, Galaxy Custom Designer, HANEX, HAPS, HapsTrak, HDL Compiler, Hercules, Hierarchical Optimization Technology, High-performance ASIC Prototyping System, HSIM^{plus}, i-Virtual Stepper, IICE, in-Sync, iN-Tandem, Jupiter, Jupiter-DP, JupiterXT, JupiterXT-ASIC, Liberty, Libra-Passport, Library Compiler, Magellan, Mars, Mars-Rail, Mars-Xtalk, Milkyway, ModelSource, Module Compiler, MultiPoint, Physical Analyst, Planet, Planet-PL, Polaris, Power Compiler, Raphael, Saturn, Scirocco, Scirocco-i, Star-RCXT, Star-SimXT, System Compiler, System Designer, Taurus, TotalRecall, 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.

Installing Proteus MetroKit

This document describes how to install the Proteus MetroKit 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 and Memory Requirements](#)
- [Installing the Software](#)
- [Setting Up the User Environment](#)
- [Verifying the Proteus MetroKit Installation](#)
- [Accessing Proteus MetroKit Documentation](#)

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

Media Availability and Supported Platforms

The tool is available by EST or on CD. Obtain the appropriate binary executable files based on the operating system you need.

Table 1 shows the supported platforms, operating systems, and corresponding Synopsys platform keywords for this release. Many platforms require operating system (OS) patches.

For detailed information, see the Supported Platforms Guide page on the Synopsys Web site. Go to http://www.synopsys.com/products/platforms/sw_platform.html

Under Supported Platforms Guides, 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 for Proteus MetroKit

Platform	Operating system	Synopsys platform keyword	Window environment
AMD Opteron	Red Hat Enterprise Linux v4	amd64 (64-bit mode) linux (32-bit mode) ¹	GNOME
EMT64T and AMD Opteron	SUSE Enterprise Linux 9, 10	suse64 (64-bit mode)	GNOME
IA-32 (X86)	SUSE Enterprise Linux 9, 10	suse32	GNOME

1. The 32-bit (x86) Linux software is binary compatible with Intel EM64T or AMD Opteron running Red Hat Enterprise Linux. Note, however, that binary compatibility is not guaranteed.

Disk Space and Memory Requirements

Make sure you have enough disk space for Proteus MetroKit installation. 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

Disk space	Platform independent 30 MB Per platform 15 MB
Physical memory	512 MB Recommended: 2+ GB
Swap space	1 GB Recommended: 2+ GB

Installing the Software

Proteus MetroKit 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 the tool, see *Installing Synopsys Tools*, available at <http://www.synopsys.com/install>.

To install the tool 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. Proteus MetroKit is installed in a similar manner.

Proteus MetroKit requires that either Proteus WorkBench (PWB) B-2008.12-SP1 or later, or IC WorkBench Plus (ICWB Plus) B-2008.12-SP1-3 or later be installed as well. Proteus MetroKit is an add on product to PWB or ICWB Plus and therefore must be available in the Path. Proteus MetroKit will invoke PWB or ICWB Plus and dynamically load itself inside it. Note that both Proteus MetroKit and PWB or ICWB Plus licenses get checked out when you use Proteus MetroKit.

Setting Up the User Environment

To set up the user environment, you must

- Specify the executable file location
- Set the `SNPSLMD_LICENSE_FILE` or `LM_LICENSE_FILE` variable

Specifying the Executable File Location

Add the Proteus MetroKit 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:

```
setenv PATH METROKIT_HOME/bin:$PATH
```

where `METROKIT_HOME` refers to the Proteus MetroKit installation directory for your version of the tool.

- If you are using the Bourne, Korn, or Bash shell, add the following line to the `.profile`, `.kshrc`, or `.bashrc` file:

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

where *METROKIT_HOME* refers to the tool's installation directory.

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 the Proteus MetroKit installation.

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

Verifying the Proteus MetroKit Installation

To verify the Proteus MetroKit installation:

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

```
% cd $HOME
```

2. Invoke Proteus MetroKit by entering

```
% metrokit
```

Proteus MetroKit outputs standard release copyright information before launching the GUI. This standard information is similar to the following.

```
-bash-3.00$                                     Proteus MetroKit
                                                B-2008.12-SP1.1234567 Production

*** Copyright (C) 1995 - 2009 Synopsys, Inc.      ***
*** This software and the associated documentation are ***
*** confidential and proprietary to Synopsys, Inc. ***
*** Your use or disclosure of this software is subject to ***
*** the terms and conditions of a written license agreement ***
*** between you, or your company, and Synopsys, Inc. ***
Detected IC WorkBench+ version: B-2008.12-SP1-3.123456
(Production)
```

If the GUI appears, the installation was successful.

Accessing Proteus MetroKit Documentation

The documentation for Proteus MetroKit is available as PDF files.

Viewing and Printing Proteus MetroKit Documentation in Portable Document Format

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