

# PrimePower Environment Installation Notes

## Version Y-2006.06

June 2006

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These installation notes present the latest information about installing the PrimePower Environment in the following sections:

- [Media Availability and Supported Platforms](#)
- [Disk Space and Memory Requirements](#)
- [Installing the Software](#)
- [Setting Up the User Environment](#)
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To ensure a successful installation, have your license server running and have the appropriate license keys installed.

See also <http://www.synopsys.com/install> for additional installation and licensing information.

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## Media Availability and Supported Platforms

When the PrimePower software is initially released, it is available by electronic software transfer (EST) download. At a later date, it becomes available on DVD (or CD depending on image size). Obtain the appropriate binary executable files based on the operating system you need. [Table 1-1](#) shows the supported platforms for the Y-2006.06 release. See [http://www.synopsys.com/products/sw\\_platform.html](http://www.synopsys.com/products/sw_platform.html) for latest information.

*Table 1-1 Supported Platforms and Keywords*

Platform	Operating system	Synopsys platform keyword
AMDOpteron	Red Hat Enterprise Linux v3, v4 <sup>1</sup>	amd64 (64-bit mode) linux (32-bit mode) <sup>2</sup>
EMT64T	SUSE Enterprise Linux 9	suse64 (64-bit mode) suse32 (32-bit mode)
IA-32 (X86)	Red Hat Enterprise Linux v3, 41	linux (32-bit mode) <sup>2</sup>
IBM RS/6000	AIX 5.3	rs6000 (32-bit mode) aix64 (64-bit mode)
Itanium 2	Red Hat Enterprise Linux 2.1	linuxipf (64-bit mode)
Sun SPARC	Solaris 9, 101	sparcOS5 (32-bit mode) sparc64 (64-bit mode)

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

2. *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.*

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## Disk Space and Memory Requirements

The PrimePower tool has the following minimum memory requirements:

- Physical Memory – 128 MB
- Swap space – 256 MB

The disk space requirement varies, depending on the platform and tool selected for installation. During the installation process, Synopsys Installer displays the required disk space.

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## Accessing Memory Beyond 2 GB With 32-Bit Tools

In general, UNIX-based systems support a maximum memory of 2 GB for 32-bit processes. However, the PrimePower tool can extend memory beyond 2 GB.

Note:

Available memory is space not used by the OS, the windowing system, or other applications.

To access memory beyond 2 GB,

1. Make sure your server has Solaris 9 (or later) loaded.
2. Make sure your server has at least 4 GB of memory (physical and swap space) available.

Note:

Physical memory equals data size plus stack size, and stack size is used before data size. Therefore setting stack size to a large value causes problems for designs that need to go over 2 GB. If you set the stack size too high, you cannot get enough memory for your data. To check the settings, use the `limit` command at the system prompt. For more information, see “[Configuring the Environment](#).”

3. Make sure the system you are using does not have restrictions that prevent you from using more than 2 GB of memory.
4. Create unlimited data size in the shell that you are using: C, Bourne, Korn, or Bash. If there are system-wide limits on the data size you can create, you can remove them or override them. You can do this in one of two ways:
  - Enter one of the following commands:
    - For the C shell,  

```
% limit datasize 3800000
```
    - For the Bourne, Korn, or Bash shell,  

```
# ulimit -s -d 3800000
```
  - Modify the kernel of your server. This approach allows everyone using your server to extend memory beyond 2 GB.

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## Installing the Software

The PrimePower uses the Synopsys Installer tool, which allows you to use a text script or a graphical user interface (GUI). For information about downloading the Synopsys Installer and PrimePower, see the document *Installing Synopsys Tools* at <http://www.synopsys.com/install>.

To install the PrimePower follow the procedures described in *Installing Synopsys Tools*. This document provides a Synopsys media installation script. PrimePower is installed in a similar manner. The PrimePower cannot be installed over an existing Synopsys product, including a prior version of the PrimePower.

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## 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.

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### Specifying the Executable File Location

Beginning with version W-2004.12, you set up PrimePower by adding platform-independent wrappers to the `PATH` environment variable. However, the old way of setting the platform-dependent executable path still works.

To set up the environment by using platform-independent wrappers, add the PrimePower bin directory 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
```

where `install_dir` is the directory where the tool has been installed.

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### Setting the `SNPSLMD_LICENSE_FILE` Environment Variab

You must install the Synopsys Common Licensing (SCL) software and define the `SNPSLMD_LICENSE_FILE` variable before you can verify the PrimePower installation. See the *Synopsys Common Licensing Installation Notes* at <http://www.synopsys.com/install> for information about downloading and installing SCL.

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## Verifying the PrimePower Installation

To verify the PrimePower installation,

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

```
% cd $HOME
```

2. Invoke the tool by entering the following command:

```
% pp_shell
```

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

Note:

To invoke the 64-bit version of PrimePower in Solaris 9 or 10, use the `-64` switch. For example,

```
% pp_shell -64
```

3. Exit `pp_shell` by entering `exit` on the command line.
4. To run the PrimePower GUI on each installed platform, enter the following command:

```
% primepower
```

Note:

To invoke the 64-bit version of PrimePower GUI in Solaris 9 or 10, use the `-64` switch. For example,

```
% primepower -64
```

5. Exit the GUI by choosing File > Exit in any GUI window.
6. To access PrimePower online Help, enter

```
% pp_shell -help
```

which lists all command-line arguments.

