

Installing Magellan (version E-2010.09)

This chapter describes how to install the Magellan 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 instructions about installing the Magellan tool in the following sections:

- [Media Availability and Supported Platforms](#)
- [Installing the Software](#)
- [Setting the Environment Variables](#)
- [Verifying the Magellan Installation](#)

Note:

Magellan requires a stand-alone installation and cannot be installed over an existing Synopsys product, including a prior version of Magellan. You must create a new directory for Magellan. Moreover, before you can run Magellan, VCS (or VCS MX) must be installed. For information about configuring Magellan to work with other tools, see the *Magellan User Guide*.

Media Availability and Supported Platforms

Magellan 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 E-2010.09 release.

Table 1 Supported Platforms and Keywords

Platform	Operating system	Synopsys platform keyword
AMD Opteron	Red Hat Enterprise Linux v4.6, v4.7 ¹ , v4.8 ¹ , v5 ¹ , v5.3 ¹ , v5.5 ¹	amd64 (64-bit mode) linux (32-bit mode) ²
AMD Opteron	SUSE Enterprise Linux 10, 11 ¹	suse64 (64-bit mode) suse32 (32-bit mode)
IA-32 (X86)	Red Hat Enterprise Linux v4.6, 4.7 ¹ , v4.8 ¹ , v5 ¹ , v5.3 ¹ , v5.5 ¹	linux (32-bit mode) ²
IA-32 (x86)	SUSE Enterprise Linux 10, 11 ¹	suse32 (32-bit mode)
Sun SPARC	Solaris 9, 10 ¹	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.*

Installing the Software

Make sure you have enough disk space for the installation. For a full installation on all platforms, 4 GB and two processors are recommended.

To download and install Magellan by electronic software transfer,

1. Create a Magellan installation directory and change to that directory. For example, enter

```
% mkdir -p /usr/synopsys/magellan
% cd /usr/synopsys/magellan
```

2. Download the software to the installation directory.
3. Uncompress and untar the files.

```
% pwd /usr/synopsys/magellan
% gzip MG_version.tar.gz | tar xvf -
```

This command creates a Magellan subdirectory whose name includes the release of Magellan you are installing.

Setting the Environment Variables

This section discusses the following environment variables:

- MG_HOME
- LD_LIBRARY_PATH
- SNPSLMD_LICENSE_FILE or LM_LICENSE_FILE

It is recommended that you place these variables in your \$HOME/.cshrc or \$HOME/.profile file as your default settings.

Setting the MG_HOME Environment Variable

Follow these steps.

1. Set the `MG_HOME` environment variable in the shell you are using, where the *root_directory* argument is the name of the Magellan root directory.

- If you are using the C shell, enter

```
% setenv MG_HOME install_dir
```

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

- If you are using the Bourne shell, enter

```
% MG_HOME=install_dir
export MG_HOME
```

2. Add the tool directory to your search path.

- If you are using the C shell, add the following line to the `.cshrc` file:

```
set path=($MG_HOME/platform/ctg/bin $path)
```

Replace *platform* with the appropriate platform keyword. See [Table 1 "Supported Platforms and Keywords" on page 2](#).

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

```
PATH=($MG_HOME/platform/ctg/bin:path)
export PATH
```

Replace *platform* with the appropriate platform keyword. See [Table 1 "Supported Platforms and Keywords" on page 2](#).

3. Append `$MG_HOME/platform/ctg/lib` to the `LD_LIBRARY_PATH` variable. This step is required if you use VHDL or the Magellan GUI (mgui).

- For example, If you are using the C shell, add the following line to the `.cshrc` file:

```
setenv LD_LIBRARY_PATH{$MG_HOME}/platform/ctg/lib \
    ${LD_LIBRARY_PATH}
```

Replace *platform* with the appropriate platform keyword. See [Table 1 "Supported Platforms and Keywords" on page 2](#).

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

```
LD_LIBRARY_PATH=($MG_HOME/platform/ctg/lib: \
    $LD_LIBRARY_PATH)
export LD_LIBRARY_PATH
```

Replace *platform* with the appropriate platform keyword. See [Table 1 "Supported Platforms and Keywords" on page 2](#).

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 Magellan installation.

Verifying the Magellan Installation

After you have installed and set up Magellan, run the test script that is installed with the software. The Testinstall.csh script checks that all required licenses are available, starts Magellan, builds a simple design, and runs a short test. If the script finishes successfully, you have installed Magellan correctly.

To verify the Magellan installation,

1. Make sure that either VCS or VCS MX is installed. Set `VCS_HOME` appropriately.
2. Change directories to `$MG_HOME`. Enter TestInstall.csh with the appropriate argument. For example,

```
% TestInstall.csh [-verilog] (the default)
```

or

```
% TestInstall.csh [-vhdl]
```

Note:

The TestInstall.csh options also require the `VCS_HOME` environment variable to be set. This variable now points to both VCS and VCS MX. To run the Magellan GUI, start an `mgsh` session, then start the GUI.

```
% $MG_HOME/platform/ctg/bin/msgsh  
mgsh> mgui
```

Replace *platform* with the appropriate platform keyword. See [Table 1 "Supported Platforms and Keywords" on page 2](#).

3. Exit the GUI by choosing File > Exit.