

# Installing XA

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## Installing XA

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This document contains specific information to prepare for and verify installation of the XA add-on to NanoSim and HSim, as well as links to installation instructions.

**Note:** The installation instructions in this document are the most up-to-date instructions 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 XA Installation](#)
- [Accessing XA Documentation](#)

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

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## Media Availability and Supported Platforms

The XA tool is available by electronic software transfer (EST) download or as tangible media (DVD or CD, depending on the image size). Obtain the appropriate binary executable files based on the operating system (OS) you need. [Table 1](#) lists the supported compute platforms, operating systems, and corresponding Synopsys platform keywords for this release. Many platforms require operating system patches.

For detailed information, see the Supported Platforms Guide page on the Synopsys Web site. Go to <http://www.synopsys.com/qsc> and select the

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### Media Availability and Supported Platforms

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

| Platform  | Operating system                                 | Synopsys platform keyword                               |
|-----------|--|---|
| x86_64    | Red Hat Enterprise Linux v4, 5 <sup>1</sup>      | amd64 (64-bit mode)<br>linux (32-bit mode) <sup>2</sup> |
| x86_64    | SUSE Linux Enterprise Server v9, 10 <sup>1</sup> | suse64 (64-bit mode)<br>suse32 (32-bit mode)            |
| x86_64    | Solaris 10                                       | x86sol64 (64-bit mode)<br>x86sol32 (32-bit mode)        |
| x86       | Red Hat Enterprise Linux v4, 5 <sup>1</sup>      | linux (32-bit mode) <sup>2</sup>                        |
| x86       | SUSE Linux Enterprise Server v9, 10 <sup>1</sup> | suse32 (32-bit mode)                                    |
| Sun SPARC | Solaris 9, 10 <sup>1</sup>                       | sparc64 (64-bit mode)<br>sparcOS5 (32-bit mode)         |

<sup>1</sup>. Binary-compatible hardware platform or operating system. Note, however, that binary compatibility is not guaranteed. See <http://www.synopsys.com/qsc> for the latest information on supported platforms.

<sup>2</sup>. The 32-bit (x86) and 64-bit (x86\_64) Linux software is binary compatible with the Intel EM64T or AMD Opteron running Red Hat Enterprise Linux. ee <http://www.synopsys.com/qsc> for the latest information on supported platforms.

**Note:** The XA software is configured so that multiple platforms of this version can be installed in a single installation directory (*install\_dir*).

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## Disk Space Requirements

Make sure you have enough disk space for XA 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       |
| x86sol32                             | 271       |
| x86sol64                             | 301       |
| linux                                | 273       |
| amd64                                | 287       |
| sparc64                              | 321       |
| sparcOS5                             | 302       |
| suse32                               | 273       |
| suse64                               | 286       |

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## Installing the Software

XA 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 XA, see *Installing Synopsys Tools*, available at [http://www.synopsys.com/support/installation/install\\_guide.html](http://www.synopsys.com/support/installation/install_guide.html).

To install XA, follow the procedures described in *Installing Synopsys Tools*.

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

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### Setting Up the User Environment

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

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## Setting Up the User Environment

A platform-independent wrapper script is provided for XA. This script automatically determines the OS platform at runtime, which simplifies the setup required to use XA.

The platform-independent wrapper script is located at *install-dir/bin* and includes `-32bit` and `-64bit` options.

**Note:** If you select a platform executable file that is not available, an automatic switch is made to an available platform based on your current environment. No warning message is issued.

Setting up the user environment is described in these sections:

- [Specifying the Executable File Location](#)
- [Setting the License File Environment Variable](#)

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### Specifying the Executable File Location

Add the XA 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`, `.kshrc`, or `.bashrc` file:

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

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### Setting the License File Environment Variable

You must install the Synopsys Common Licensing (SCL) software, retrieve your license key file, and define the `SNPSLMD_LICENSE_FILE` or

`LM_LICENSE_FILE` environment variable before you can verify the XA installation.

For information about downloading and installing SCL and on setting the license variable, see the *Synopsys Licensing QuickStart Guide*, which is available from <http://www.synopsys.com/Support/Licensing/Licensing/Pages/default.aspx>.

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## Verifying the XA Installation

To verify the XA installation,

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

```
% cd $HOME
```

2. Invoke the tool by entering

```
% xa -V
```

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

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## Accessing XA Documentation

The documentation for XA is available as PDF files or as online Help.

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### Viewing and Printing XA Documentation in Portable Document Format

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

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### Viewing XA Online Help

The XA online Help system is a browser-based HTML Help system.

## Installing XA

### Accessing XA Documentation

To view a Help system, Synopsys recommends the following minimum revisions web browsers on the Synopsys-supported platforms (later versions should also work):

| Platform                          | Operating Systems   | Supported Browsers   |
|-----------------------------------|---|--|
| IBM RS6000 AIX 32- and 64-bit     | AIX 5.3   | Firefox 1.5<br>Mozilla 1.7   |
| SunSPARC Solaris 32- & 64-bit     | Solaris 9 or 10 <sup>1</sup>  | Firefox 1.5, 2.0<br>Mozilla 1.7  |
| X86 (IA-32) 32-bit & Linux 32-bit | RedHat Enterprise Linux 4 or 5<br>SUSE Linux Enterprise Server 9 or 10  | Firefox 1.5, 2.0, 3.0 <sup>2</sup><br>Mozilla 1.7<br>Netscape Navigator 7.0                          |
| X86_64 Linux 64-bit               | Red Hat Enterprise Linux 4 or 5<br>SUSE Linux Enterprise Server 9 or 10 | Firefox 1.5, 2.0, 3.0 <sup>2</sup><br>Mozilla 1.7<br>Netscape Navigator 7.0                          |
| X86 Windows 2000                  | Windows 2000  | Firefox 1.5, 2.0, 3.0 <sup>3</sup><br>Internet Explorer 6.0<br>Mozilla 1.7<br>Netscape Navigator 7.0 |
| X86 Windows XP Professional       | Windows XP Professional v2002   | Firefox 1.5, 2.0, 3.0 <sup>3</sup><br>Internet Explorer 6.0<br>Mozilla 1.7<br>Netscape Navigator 7.0 |

- 1. Synopsys does not recommend using Netscape Navigator to view Help on Solaris.*
- 2. Synopsys recommends using Firefox 3.0 builds 2008052912 or later on Linux.*
- 3. Synopsys recommends using Firefox 3.0 builds 2008052906 or later on Windows.*

The following sections describe:

- [How to Set a Default Browser on Windows](#)
- [How to Set a Default Browser on UNIX or Linux](#)
- [Setting MIME Types to View PDFs from Help](#)

## How to Set a Default Browser on Windows

On Windows, Help opens the browser associated with .html files (typically Internet Explorer).

To use a browser other than Internet Explorer on Windows:

1. Open the browser that you want to use.
2. Open the Add or Remove Programs applet (available from the Control Panel).
3. Choose Set Program Access and Defaults.
4. Select Custom and click the down arrow to display the custom menu.
5. Choose "Use my current Web browser" and click OK.

**Result:** The next time you click Help, the Help content will appear in your selected default browser.

## How to Set a Default Browser on UNIX or Linux

The Help system finds HTML browsers on UNIX or Linux by searching for browsers in this order: Netscape, Mozilla, Internet Explorer. It searches for these browsers in the following locations:

1. It first searches in the directories listed in your \$PATH environment variable for the following executables in the following order:

```
netscape6  
netscape  
mozilla  
iexplorer
```

2. If Help doesn't find these executables in your \$PATH, it searches first for netscape6, then netscape, then mozilla, in the following customary locations:

```
/opt/browser/  
/usr/local/bin/  
/usr/local/browser/  
/usr/bin/browser
```

3. Finally, it looks for the Internet Explorer executable in this location:

```
/usr/local/microsoft/bin/iexplorer
```

To use a browser other than those listed above on UNIX or Linux, there are two methods you can use.

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### Accessing XA Documentation

Method A: Open the browser you want to use first:

1. Before you use Help, open the browser you want to use, such as Firefox.
2. Then start Help from your Synopsys application.

The Help document will open in the currently opened browser.

Method B: Link the executable you want to use to one of the executables (netscape or mozilla) used by Help by default:

- For example, assume that you want to use your Firefox browser executable instead of Mozilla, and that both executables are located in /usr/bin. Make a symbolic link from the firefox executable to mozilla as follows:

```
cd /usr/bin
ln -s firefox mozilla
```

This will cause Help to start Firefox in place of Mozilla when Help is called.

**Note:** If you make this change, all users on this system will start Firefox instead of Mozilla on this server, in any context.

## Setting MIME Types to View PDFs from Help

Online Help includes PDF versions of the documents, for use in printing. In order for links from the Help to the PDF to work, you must set an association in your browser for MIME type "application/pdf" with an appropriate PDF viewer for your platform. See the documentation for your particular browser for specific instructions on creating MIME-type associations.