

Liberty™ NCX Installation Notes

Version A-2007.12-SP3

April 28, 2008

These installation notes present the latest information about Liberty NCX version A-2007.12-SP3 in the following sections:

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

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Media Availability and Supported Platforms

Liberty NCX is available by EST download upon initial software release, and at a later date 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 A-2007.12-SP3 release.

Table 1-1 Supported Operating Systems and Keywords

Platform	Operating system	Platform keyword	Path keyword
AMD Opteron	Red Hat Enterprise Linux v4, v5 ¹	amd64 (64-bit mode)	AMD.64
EM64T	SUSE Enterprise Linux 9, 10 ¹	suse64 (64-bit mode) suse32 (32-bit mode)	SUSE.64 SUSE.32
IA-32 (x86)	Red Hat Enterprise Linux v4, 5 ¹	linux	IA.32
Sun SPARC	Solaris 9, 10 ¹	sparcOS5 (32-bit) sparc64 (64-bit)	SUN.32 SUN.64

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

Disk Space and Memory Requirements

The Liberty NCX tool has the following minimum memory requirements:

- Physical Memory – 256 MB (1 GB is recommended)
- Swap space – 512 MB (2 GB is recommended)

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.

Installing the Software

Liberty NCX 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 PrimeTime, see the document *Installing Synopsys Tools* at

<http://www.synopsys.com/install>.

To install Liberty NCX follow the procedures described in *Installing Synopsys Tools*. This document provides a Synopsys media installation script. Liberty NCX is installed in a similar manner.

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

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.

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

Specifying the Executable File Location

Add the Liberty NCX 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=(synopsys_root/platform/ncx/bin $path)
```

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

```
PATH=synopsys_root/platform/ncx/bin:$PATH  
export PATH
```

Note:

Replace `platform` with the appropriate platform (see [Table 1-1](#)).

Setting the SNPSLMD_LICENSE_FILE Environment Variable

You must install the SCL software and define the `SNPSLMD_LICENSE_FILE` variable before you can verify the Liberty NCX installation.

For information about downloading SCL, installing SCL, or setting the license variable, see *Installing Synopsys Tools* at [http://http://www.synopsys.com/install](http://www.synopsys.com/install).

Setting the SYNOPSIS_NCX_ROOT Variable

To run the Model Adaptation System (library formatting) operations and the Library Quality Assurance System utility, you must set the path for the `SYNOPSIS_NCX_ROOT` variable in your `.cshrc` file and point it to the `NCX_Install_Directory` location. If you are using the C shell, add the following line to the `.cshrc` file:

```
setenv SYNOPSIS_NCX_ROOT path_to_NCX_Install_Directory
```

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

```
SYNOPSIS_NCX_ROOT = path_to_NCX_Install_Directory  
export SYNOPSIS_NCX_ROOT
```

Installing Make CCS Noise

The Make CCS Noise program is installed automatically with Liberty NCX and PrimeTime SI. However, before running `make_ccs_noise`, you must set either the `MTB_TPATH` or `CCSN_TPATH` environment variable under the operating system to a specific path in the Make CCS Noise installation, as shown:

```
% setenv MTB_TPATH $synopsys/ccsn/platform
```

or

```
% setenv CCSN_TPATH $synopsys/ccsn/platform
```

where `$synopsys` is the directory where Liberty NCX or PrimeTime SI was installed, as specified in the Synopsys installer script, and `platform` is the name of the platform on which `make_ccs_noise` is being invoked: `linux`, `sparcOS5`, `sparc64`, `suse32`, `suse64`, or `amd64`. For example,

```
% setenv CCSN_TPATH /tools/pt_2007_12/ccsn/amd64
```

In the configuration file, set the `perl_path` command, which specifies the path to the Perl interpreter, and point it to the following path:

```
set perl_path $CCSN_TPATH/perl/bin
```

where `$CCSN_TPATH` is the directory where Make CCS Noise was installed. Be sure to specify the full path rather than use an environment variable.

Make CCS Noise Sed Version

The Make CCS Noise installation script requires that you have the GNU version of `sed` on your installation machine. First, determine which `sed` version you have by typing the following at the shell prompt:

```
% sed --version
```

If it returns `GNU sed version <version number>`, the version is correct. However, if it returns `sed:illegal option -- -`, the version of `sed` will not work.

Some Solaris machines do not have the GNU version of `sed`. If you receive the `sed:illegal option -- -` message, try reinstalling Make CCS Noise on a Linux machine.

Verifying the Liberty NCX Installation

To verify the Liberty NCX 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 on a licensed machine:

```
% ncx
```

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

