

# IC Validator Installation Notes

## Version D-2009.12

December 2, 2009

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These installation notes present information about installing IC Validator version D-2009.12 in the following sections:

- [Media Availability and Supported Platforms](#)
- [Disk Space and Memory Requirements](#)
- [Installing the Software](#)
- [Setting Up the User Environment](#)
- [Verifying the IC Validator Installation](#)

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.

See also <http://www.synopsys.com/Support/Licensing/Installation/Pages/default.aspx> for additional installation and licensing information.

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## Media Availability and Supported Platforms

IC Validator is available by electronic software transfer (EST) download upon initial software release, and at a later date on DVD (or CD depending on image size).

[Table 1](#) shows the supported compute platforms, operating systems, Synopsys platform keywords, and windowing environments for this release.

*Table 1 Supported Platforms, Operating Systems, and Keywords*

Compute platform	Operating system	Synopsys platform keyword	Desktop windowing environment
x86_64	Red Hat Enterprise Linux v4, 5 <sup>1</sup>	amd64 (64-bit mode) linux (32-bit mode) <sup>2</sup>	GNOME
x86_64	SUSE Enterprise Linux v9, 10 <sup>1</sup>	suse64 (64-bit mode) suse32 (32-bit mode)	KDE
x86_64	Solaris 10	x86sol64 (64-bit mode) x86sol32 (32-bit mode)	CDE
x86	Red Hat Enterprise Linux v4, 5 <sup>1</sup>	linux (32-bit mode) <sup>2</sup>	GNOME
x86	SUSE Enterprise Linux v9, 10 <sup>1</sup>	suse32 (32-bit mode)	KDE
Sun SPARC	Solaris 9, 10 <sup>1</sup>	sparc64 (64-bit mode)	CDE
IBM RS6000	AIX 5.3	aix64 (64-bit mode)	CDE

1. Binary-compatible hardware platform or operating system. Note, however, that binary compatibility is not guaranteed. See <http://www.synopsys.com/Support/Licensing/SupportPlatform/ReleaseSupport/Pages/default.aspx> for the latest on supported platforms, including required OS patches.

2. The 32-bit (x86) and 64-bit (x86\_64) Linux software is binary compatible with the Intel EM64T or AMD Opteron processors running Red Hat Enterprise Linux.

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## Disk Space and Memory Requirements

The disk space requirement depends on the platform. [Table 2](#) shows the minimum space required for installing IC Validator on a particular platform.

*Table 2 Disk Space Requirements (in Megabytes)*

Synopsys platform keyword	Megabytes
common (platform-independent files)	60
amd64	719
linux	682
suse64	706
suse32	663
x86sol64	1400
x86sol32	1200
sparc64	1020
aix64	2100

The recommended minimum physical memory is 1 GB. The recommended minimum swap space is 2 GB. For large designs, the expected amount of required memory is approximately 1 million bytes per 2,000 gates.

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## Installing the Software

IC Validator uses the Synopsys Installer, which allows you to use a text script or a graphical user interface (GUI). For information about downloading the Synopsys Installer, see *Installing Synopsys Tools*, which is available at the following address:

<http://www.synopsys.com/Support/Licensing/Installation/Pages/default.aspx>

To install IC Validator, follow the procedures described in *Installing Synopsys Tools*. IC Validator is a standalone product and must be installed in an empty directory, using the latest version of the Synopsys Installer. Do not install IC Validator over an existing Synopsys product, including prior versions of IC Validator.

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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 file environment variable.

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### Specifying the Executable File Location

There are two setup scripts, `icv_setup.csh` and `icv_setup.sh`, in `install_dir/setup` directory, where `install_dir` is the IC Validator installation directory. You must set `ICV_HOME_DIR` at the top of the setup script you select to use.

```
setenv ICV_HOME_DIR TOP-LEVEL-INSTALL-DIR
```

Replace `TOP-LEVEL-INSTALL-DIR` with the IC Validator installation path up to but not including the `bin` directory.

When you source the setup file, all paths and environment variables are set. After setting the license file environment variable, as described in the following section, you can run IC Validator.

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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` environment variable before you can verify the IC Validator installation.

For information about downloading SCL, installing SCL, or setting the license file variable, see the *Synopsys Licensing Quickstart Guide*, which is available at the following address:

<http://www.synopsys.com/Support/Licensing/Licensing/Pages/default.aspx>

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## Verifying the IC Validator Installation

To verify the IC Validator installation, after sourcing the setup script, invoke IC Validator on a licensed machine.

```
%icv -V
```

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