

ISE Design Suite 12: Installation, Licensing, and Release Notes

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Revision History

The following table shows the revision history for this document.

Date	Version	Revision
04/19/10	12.1.0	Initial Xilinx release.

About This Guide

This guide explains how to install and license ISE® Design Suite 12, which includes the Integrated Software Environment (ISE) software, ChipScope™ Pro software, Embedded Tools (including Embedded Development Kit (EDK) and standalone Software Development Kit (SDK), System Generator for DSP software, and PlanAhead™ design tools. It also describes how to use Xilinx® online documentation.

Information on what is new, known issues, and technical support for ISE Design Suite 12 software is also included.

Guide Contents

This manual contains the following chapters:

- [Chapter 1, “What’s New, Release Notes, and Known Issues for 12.1”](#)
- [Chapter 2, “Operating Systems, Architecture Support, and System Requirements”](#)
- [Chapter 3, “Download and Installation”](#)
- [Chapter 4, “Obtaining and Managing a License”](#)
- [Chapter 5, “Technical Support, Services, and Documentation”](#)

This manual contains the following appendix:

- [Appendix A, “Third-Party Licenses”](#)

Additional Resources

To find additional documentation, see the Xilinx website at:

<http://www.xilinx.com/support/documentation/index.htm>.

To search the Answer Database of silicon, software, and IP questions and answers, or to create a technical support WebCase, see the Xilinx website at:

<http://www.xilinx.com/support/mysupport.htm>.

To obtain the current version of the USB Cable Installation Guide, see the Xilinx website at:

http://www.xilinx.com/support/documentation/user_guides/ug344.pdf

To obtain the current version of the data sheet for Platform Cable USB II, see the Xilinx Website at:

http://www.xilinx.com/support/documentation/data_sheets/ds593.pdf

To obtain the current version of the data sheet for Parallel Cable IV, see the Xilinx Website at:

http://www.xilinx.com/support/documentation/data_sheets/ds097.pdf

Conventions

This document uses the following conventions. An example illustrates each convention.

Typographical

The following typographical conventions are used in this document:

Convention	Meaning or Use	Example
Courier font	Messages, prompts, and program files that the system displays	<code>speed grade: - 100</code>
Courier bold	Literal commands that you enter in a syntactical statement	<code>ngdbuild design_name</code>
Helvetica bold	Commands that you select from a menu	File > Open
	Keyboard shortcuts	Ctrl+C
Italic font	Variables in a syntax statement for which you must supply values	<code>ngdbuild design_name</code>
	References to other manuals	See the <i>Command Line Tools User Guide</i> for more information.
	Emphasis in text	If a wire is drawn so that it overlaps the pin of a symbol, the two nets are <i>not</i> connected.
Square brackets []	An optional entry or parameter. However, in bus specifications, such as <code>bus [7:0]</code> , they are required.	<code>ngdbuild [option_name] design_name</code>
Braces { }	A list of items from which you must choose one or more	<code>lowpwr = {on off}</code>
Vertical bar	Separates items in a list of choices	<code>lowpwr = {on off}</code>

Convention	Meaning or Use	Example
Vertical ellipsis . . .	Repetitive material that has been omitted	IOB #1: Name = QOUT' IOB #2: Name = CLKIN' . . .
Horizontal ellipsis ...	Repetitive material that has been omitted	allow block <i>block_name loc1 loc2 ... locn;</i>

Online Document

The following conventions are used in this document:

Convention	Meaning or Use	Example
Blue text	Cross-reference link to a location in the current document	See the section “ Additional Resources ” for details. Refer to “ Title Formats ” in Chapter 1 for details.
Red text	Cross-reference link to a location in another document	See Figure 2-5 in the <i>Virtex-5 Platform FPGA User Guide</i> .
Blue, underlined text	Hyperlink to a website (URL)	Go to http://www.xilinx.com for the latest speed files.

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Appendix A: Third-Party Licenses

What's New, Release Notes, and Known Issues for 12.1

This chapter discusses important product details and describes how to access the list of new features that are included in the products that comprise ISE® Design Suite 12. It also describes how to access the Known Issues for ISE Design Suite 12. This chapter comprises the following sections:

- “What’s New”
- “Release Notes”
- “Known Issues”

What’s New

This section describes the different ways to access the What’s New documentation.

Microsoft Windows Only

The What’s New documentation is now available only on www.xilinx.com. For links to this and other documentation you use the ISE Design Suite InfoCenter. Select **Start > Programs > Xilinx ISE Design Suite 12.1 > Documentation > InfoCenter**.

Online

You can find the What’s New documentation online at:

www.xilinx.com/support/documentation/sw_manuals/xilinx12_1/whatsnew.htm

System Generator for DSP is included in ISE Design Suite 12. For more information on System Generator for DSP see Release Notes section of the System Generator for DSP Getting Started Guide:

www.xilinx.com/support/documentation/dt_sysgendsp_sysgen12-1_userguides.htm

PlanAhead software has many new features for 12.1. For more information on What’s New in PlanAhead software see the What’s New file:

www.xilinx.com/support/documentation/dt_planahead_planahead12-1_releasenotes-knownissues.htm

Release Notes

This section describes important release information.

CORE Generator IP Notes

The first Intellectual Property (IP) Update for the ISE Design Suite 12 CORE Generator™ software, IP_12.1.0, is integrated into the initial ISE Design Suite 12 software release and is automatically installed with it.

Subsequent ISE 12-compatible updates are cumulative and will be advertised on the Xilinx Intellectual Property Center, www.xilinx.com/ipcenter, as they become available. These future updates will be downloadable from the [Xilinx Download Center](#), and will also usually require installation of specific ISE updates.

Some IP cores might also require license purchase or installation of a license key to activate full access. IP-specific requirements along these lines are documented on the product page for each core.

Embedded Tools

Base System Builder now supports the Xilinx SP601 and ML605 development boards.

ModelSim Xilinx Edition-III

For ModelSim Xilinx Edition-III information see Appendix A, “Simulating Xilinx Designs in ModelSim” in the [Synthesis and Simulation Design Guide](#).

To Simulate Xilinx Designs in ModelSim, you must use the Complib to compile the Xilinx® Simulation Libraries for the target simulator. For more information, see the [Command Line Tools User Guide](#).

PlanAhead

Updated Device Support, including the new Spartan-6 low power family. New Virtex-6 SSN Predictor tool for pin assignment.

Known Issues

Xilinx Answer Record #34466 contains information on Known Issues for ISE Design Suite 12:

www.xilinx.com/support/answers/34466.htm

Operating Systems, Architecture Support, and System Requirements

This chapter describes the operating systems and architectures that the ISE® Design Suite 12 software supports. It also describes system requirements for ISE Design Suite 12. This chapter comprises the following sections:

- “Operating Systems”
- “Architectures”
- “System Requirements”

Operating Systems

ISE Design Suite 12 supports three operating systems: Microsoft Windows®, Red Hat® Enterprise Linux, and SUSE Linux Enterprise.

Microsoft Windows

The following table lists Microsoft Windows support.

Table 2-1: Microsoft Windows Support (English and Japanese)

Product	XP Professional		Vista Business	
	32-bit	64-bit	32-bit	64-bit
Design Entry and Implementation Tools (ISE Foundation™ software)	Yes	Yes	Yes	Yes
ISE Simulator (ISim) software	Yes	Yes	Yes	Yes
ISE WebPACK™ software	Yes	Yes	Yes	Yes
ChipScope™ Pro software and ChipScope Pro Serial I/O Toolkit	Yes	Yes	Yes	Yes
Embedded Development Kit (EDK)	Yes	Yes	Yes	No
System Generator for DSP software	Yes	Yes	Yes	Yes
ModelSim Xilinx Edition-III (MXE-III) software	Yes	Yes	Yes	Yes

Red Hat Enterprise Linux

The following table lists Red Hat Enterprise Linux support.

Table 2-2: Red Hat Enterprise Linux Support

Product	4 Workstation		5 Desktop	
	32-bit	64-bit	32-bit	64-bit
Design Entry and Implementation Tools (ISE Foundation software)	Yes	Yes	Yes	Yes
ISE Simulator (ISim) software	Yes	Yes	Yes	Yes
ISE WebPACK software	Yes	Yes	Yes	Yes
ChipScope Pro software and ChipScope Pro Serial I/O Toolkit	Yes	Yes	Yes	Yes
Embedded Development Kit (EDK)	Yes	Yes	Yes	Yes
System Generator for DSP software	Yes	Yes	Yes	Yes
ModelSim Xilinx Edition-III (MXE-III) software	No	No	No	No

SUSE Linux Enterprise

The following table lists SUSE Linux Enterprise 10 support.

Table 2-3: SUSE Linux Enterprise 10 Support (English and Japanese)

Product	32-bit	64-bit
Design Entry and Implementation Tools (ISE Foundation software)	Yes	Yes
ISE Simulator (ISim) software	Yes	Yes
ISE WebPACK software	Yes	Yes
ChipScope Pro software and ChipScope Pro Serial I/O Toolkit	Yes	Yes
Embedded Development Kit (EDK)	Yes	Yes
System Generator for DSP software	Yes	Yes
ModelSim Xilinx Edition-III (MXE-III) software	No	No

Architectures

ISE Design Suite 12 supports the Virtex®, Spartan®, and CPLD architecture families. The following table lists the architecture support.

Table 2-4: Architecture Support

	ISE WebPACK software	ISE Design Suite (Logic Edition, Embedded Edition, DSP Edition, System Edition)
Virtex Series	<p>Virtex-4 devices: LX: XC4VLX15, XC4VLX25 SX: XC4VSX25 FX: XC4VFX12</p> <p>Virtex-5 devices: LX: XC5VLX30, XC5VLX50 LXT: XC5VLX20T, XC5VLX30T, XC5VLX50T FXT: XC5VFX30T</p> <p>Virtex-6 devices: LXT: XC6VLX75T, XC6VLX75TL</p>	<p>Virtex-4 devices: LX: All SX: All FX: All</p> <p>Virtex-5 devices: LX: All LXT: All SXT: All TXT: All FXT: All</p> <p>Note: Embedded Development Kit (EDK) does not support Virtex-5 TXT devices.</p> <p>Virtex-6 devices: LX/T: All including "L" (lower power) devices CXT: All • SXT: All including "L" devices HXT: All</p>
Spartan Series	<p>Spartan-3 devices: XC3S50 - XC3S1500 Spartan-3A devices: All Spartan-3AN devices: All Spartan-3A DSP devices: XC3SD1800A Spartan-3E devices: All Spartan-3L devices: XC3S1000L, XC3S1500L XA* Spartan-3 devices: All XA* Spartan-3E devices: All XA* Spartan-3A devices: All XA* Spartan-3A DSP devices: XC3SD1800A</p> <p>Spartan-6 devices: LX: XC6SLX4(L)-XC6SLX75(L) LXT: XC6SLX25T, XC6SLX45T, XC6SLX75T XA* Spartan-6 devices: All *Xilinx Automotive</p>	<p>Spartan-3 devices: All Spartan-3A devices: All Spartan-3AN devices: All Spartan-3A DSP devices: All Spartan-3E devices: All Spartan-3L devices: All XA* Spartan-3 devices: All XA* Spartan-3E devices: All XA* Spartan-3A devices: All XA* Spartan-3A DSP devices: All</p> <p>Spartan 6 device: LX/T: All including "L" (lower power) devices XA* Spartan-6 devices: All</p> <p>*Xilinx Automotive</p>

Table 2-4: Architecture Support

	ISE WebPACK software	ISE Design Suite (Logic Edition, Embedded Edition, DSP Edition, System Edition)
CoolRunner™ XPLA3 devices CoolRunner-II devices XA* CoolRunner-IIv devices *Xilinx Automotive	All	All Note: Embedded Development Kit (EDK) does not support CPLDs.
XC9500 Series devices	All (Except 9500XV family)	All (Except 9500XV family) Note: Embedded Development Kit (EDK) does not support CPLDs.

System Requirements

This section provides information on supported operating systems, Web browser, cable installation, and system memory requirements.

ISE Design Suite

Cable Installation Requirements

Platform Cable USB II and Parallel Cable IV are high-performance cables that enable Xilinx® design tools to program and configure target hardware.

To install Platform Cable USB II, a system must have at least a USB 1.1 port. For maximum performance, Xilinx recommends using Platform Cable USB II with a USB 2.0 port.

To install Parallel Cable IV, a system must have a parallel port connector and support parallel port communication.

Cables are officially supported on the 32-bit and 64-bit versions of the following operating systems: Windows XP Professional, Windows Vista Business, Red Hat Linux Enterprise, and SUSE Linux Enterprise 10. Additional platform specific notes are as follows:

- All Linux: Root privileges are required to install cable drivers on Linux.
- SUSE Linux Enterprise 10: The fxload software package is required to ensure correct Platform Cable USB II operation. The fxload package is not automatically installed on SUSE Linux Enterprise 10 distributions, and must be installed by the user or System Administrator.
- Linux LibUSB support: Preliminary support for Platform Cable USB II based upon the LibUSB package is now available from the Xilinx website. See Answer Record #25249 for details.

For additional information regarding Xilinx cables, refer to the following documents:

- USB Cable Installation Guide (UG344)
- Platform Cable USB II Data Sheet (DS593)
- Parallel Cable IV Data Sheet (DS097)

System Memory Recommendations

This section gives the RAM and swap space needed to run ISE Design Suite 12 on your system.

While the memory recommendation table, available at the link below, lists the system recommendations for typical designs, the unique characteristics of each design affect the system resources required. Design complexity and constraints affect whether the design can be implemented using more or less memory. Each designer must monitor the system resources and adjust the systems resources, if necessary. For more information on memory recommendations, see:

<http://www.xilinx.com/ise/products/memory.htm>

Operating Systems and Available Memory

The Microsoft Windows and Linux® operating system (OS) architectures have limitations on the maximum memory available to a Xilinx program. Users targeting the largest devices and most complex designs may encounter this limitation. ISE Design Suite 12.1 has optimized memory and enabled software support for applications to increase RAM memory available to Xilinx software.

Windows XP Professional 32-bit

Xilinx applications are enabled to take advantage of the memory increase feature on Windows 32-bit. You must then modify Windows setting to get access to this larger memory.

The standard Windows OS architecture limits the maximum memory available to a Xilinx process to 2 Gigabyte (GB). In Windows XP Professional, Microsoft created an option to support the ability of an application to address 3 GB of RAM. Xilinx ISE applications have built-in support for this option. To take advantage of this capability, you must also modify your Windows XP OS to enable this feature, which requires that you modify your `boot.ini` file by adding a `"/3GB"` entry to the end of the `"startup"` line.

Before enabling 3 GB support for Xilinx applications, please read the Microsoft Knowledge Base Article #328269 at <http://support.microsoft.com/?kbid=328269>. If you upgrade your computer to Windows XP Service Pack 1 (SP1) and you are using the `/3GB` switch, Windows may not restart without a patch from Microsoft. Please see (Xilinx Answer 17905) for more information.

Additionally, before making this change, please read:

- Microsoft Bulletin Q17193 <http://support.microsoft.com/default.aspx?scid=kb;en-us;Q17193>, which contains information on "Application Use of 4GT RAM Tuning".
- Microsoft Bulletin Q289022 <http://support.microsoft.com/default.aspx?scid=kb;en-us;q289022>, contains instructions for editing your `boot.ini` file.

Linux

ISE Design Suite 12 supports both Linux 32-bit and Linux 64-bit. The latter allows greater memory allocation. Xilinx has documented Linux kernel modifications that allow a Xilinx application to address over 3 GB of memory.

For 32-bit Red Hat Enterprise Linux systems, the operating system can use the `hugemem` kernel to allocate 4 GB to each process. More information can be found on the Red Hat support site: <http://www.redhat.com/docs/manuals/enterprise/>

ISE supports the 64-bit version of Red Hat Enterprise Linux, which allows greater memory allocation out of the box.

Equipment and Permissions

The following table lists related equipment, permissions, and network connections.

Table 2-5: Equipment and Permissions Requirements

Item	Requirement
Directory permissions	Write permissions must exist for all directories containing design files to be edited.
Monitor	16-bit color VGA with a minimum recommended resolution of 1024 by 768 pixels.
Drive	You must have a DVD-ROM for ISE Design Suite (if you have received a DVD, rather than downloading from the web), and CD-ROM for MXE on your system.
Ports	To program devices, you must have an available parallel, or USB port appropriate for your Xilinx programming cable. Specifications for ports are listed in the documentation for your cable. Note: Installation of the cable driver software requires Windows XP Pro SP1 (or later), or Windows Vista Business. If you are not using one of these operating systems, the cables may not work properly.

Note: X Servers/ Remote Desktop Servers, such as Exceed, ReflectionX, and XWin32, are not supported.

Network Time Synchronization

When design files are located on a network machine, other than the machine with the installed software, the clock settings of both machines must be set the same. These times must be synchronized on a regular basis for continued proper functioning of the software.

ChipScope Pro

Cable Installation Requirements

For Linux, cable drivers require root privileges to install. To install Platform Cable USB II for USB 2.0 port, you must have Windows XP SP2. The Platform Cable USB II is a high-performance download cable that attaches to user hardware for use with the ChipScope Pro Analyzer tool for device programming, configuring, and debugging.

System Memory Recommendations

The ChipScope Pro Analyzer software requires 1024 megabytes (MB) of system memory. The ChipScope Pro Core Inserter tool has the same requirements as ISE. For more information on ISE memory recommendations, see: <http://www.xilinx.com/ise/products/memory.htm>.

System Generator for DSP System Requirements and Recommendations

Hardware Recommendations

Table 2-6: System Generator for DSP Hardware Recommendations

Recommendation	Notes
2.00 GB of RAM	
600 MB of hard disk space	Minimum Requirement
Xilinx Hardware Co-Simulation Platform	Required for the Hardware Co-Simulation Flow

OS and Software Requirements

Table 2-7: System Generator for DSP OS and Software Requirements

Requirement	Notes
Windows XP Professional SP2, 32-bit/64-bit or Windows Vista Business SP1, 32-bit/64-bit or Red Hat Linux 4u7, 32-bit & 64-bit	
Xilinx ISE Design Suite 12	
MathWorks MATLAB Version 2009a or 2009b	
MathWorks Simulink with Fixed-Point Toolbox Version 2009a or 2009b	MATLAB must be installed in a directory with no spaces (e.g., C:\MATLAB\R2009b) Fixed-Point Toolbox required for signals greater than 53 bits

Download and Installation

This chapter describes how to download and install ISE® Design Suite 12 software, as well as ModelSim Xilinx® Edition 6.5c. It includes the following sections:

- [“Downloading ISE Design Suite 12”](#)
- [“Installing ISE Design Suite 12 - Overview for All Platforms”](#)
- [“Platform Specific Instructions”](#)
- [“Installation Flow”](#)
- [“USB FLEXid Dongle Driver Installation”](#)
- [“Network Installations”](#)
- [“Obtaining 12 Quarterly Releases”](#)
- [“Uninstalling ISE Design Suite 12”](#)
- [“Installing ModelSim Xilinx Edition 6.5c Software \(Windows Only\) - Optional”](#)

Downloading ISE Design Suite 12

This section explains how to download the ISE Design Suite 12 software.

To begin, open an internet browser and navigate to <http://www.xilinx.com/support/download/index.htm>

All files in the Xilinx Download Center will be downloaded using the Akamai download manager. For the optimum download experience, perform the following:

- ◆ Allow pop-ups from <http://xilinx.entitlenow.com>
- ◆ Set security settings to allow for secure and non-secure items to be displayed on the same page
- ◆ Allow the Akamai download manager to run Java processes

To Download ISE Software:

1. Ensure the Design Tools tab in the web page is selected
2. Under the Version heading, click on the version of the tools you are interested in downloading.
3. Click in the link for the installer you wish to download

Note: For 12.x, the installers under the ISE Design Suite heading also contain the standalone selections for the Software Development Kit and Lab Tools. Depending on your use case, you may not need to download these separate installation programs if you are downloading the ISE Design Suite installers.

4. Enter your User ID and Password to log into your Xilinx account.

Note: If you do not have a Xilinx account, you will need to create one in order to download products.

An address verification screen will appear.

5. Once the current address is correct, click **Next**.
6. The Akamai download manager will launch in your browser to complete the download process.

Most files in the Xilinx Download Center are packaged using TAR methods. You will need to use software from a third party provider to unpack them. Consult your IT department for assistance. Commonly used tools for TAR files are 7-ZIP, GNU built-in tools, WinZIP, and WinRar, and these are licensed solely by each respective developer and not Xilinx. Xilinx hereby disclaims any warranties, express or implied, including warranties of merchantability, fitness for a particular purpose, or noninfringement with respect to these suggested software tools.

Installing ISE Design Suite 12 - Overview for All Platforms

This section explains the installation process for all platforms for ISE Design Suite 12. Installation for each platform should be preceded by these steps:

1. Ensure that you have appropriate privileges on the system that the software will be installed on. Some components, such as programming cable device drivers, require administrator-level permissions.
2. Close all programs before you begin installation.
3. Ensure that your system meets the requirements described in [Chapter 2, “Operating Systems, Architecture Support, and System Requirements.”](#)
4. Check the links found in [Chapter 1, “What’s New, Release Notes, and Known Issues for 12.1”](#) for any installation issues that pertain to your system or configuration.
5. Ensure if EDK is installed, the installation has to be in a directory structure that does not contain spaces.

Note: The ISE Design Suite 12 installers will no longer set global environment variables, such as XILINX, on Windows. To find out if this affects the way you execute Xilinx software, see [“Platform Specific Instructions.”](#)

Platform Specific Instructions

This section provides platform-specific details of the ISE Design Suite 12 installation.

Microsoft Windows

This section describes how to start the installation for Microsoft Windows operating systems.

To Start Installation

The method of starting the installation depends on how you have obtained the installation program. See “[Downloading ISE Design Suite 12](#)” for details on your options.

- If you have downloaded an installation file, decompress that file and run the `xsetup.exe` program contained therein.
- If you have ordered and received an ISE Design Suite DVD, load the DVD. If you have the auto-run feature of your DVD drive enabled, the setup program should start automatically. If it does not, browse to the DVD in Windows Explorer and run the `xsetup.exe` found at the root of the disc.

To Set Environment Variables

At the completion of the installation process, the installation program creates an environment variable batch file for you. All appropriate Desktop and Program Group shortcuts call this file before launching the target application. A shortcut to a command-line prompt which sets the environment has been created for you. The shortcut is located at **Xilinx ISE Design Suite 12.1 > Accessories > ISE Design Suite Command Prompt**

To set environment variables in make or script files:

Add `<XILINX installation directory>\settings32.bat` or `settings64.bat` to your script. 32 or 64 corresponds to the bit-width of the operating system installed on the machine

Linux

This section describes how to start the installation and set the environment variables for Linux operating systems.

To Start Installation

The method of starting the installation depends on how you have obtained the installation program. See “[Downloading ISE Design Suite 12](#)” for details on your options.

- If you have downloaded an installation file, decompress that file and run the `xsetup` program contained therein.
- If you have ordered and received an ISE Design Suite DVD, load the DVD. Click the setup file in your file manager, or browse to the root of your DVD drive and type `./xsetup`.

To Set Environment Variables

At the completion of the installation process, the installation program creates an environment variables file for you.

1. Go to your XILINX installation directory.
2. Type either `source settings32.(c)sh` or `source settings64.(c)sh`, whichever is appropriate to your shell.

To set your environment variables manually or from within your setup script, it is recommended that you copy the settings from the appropriate file for your operating system, as listed above. Xilinx environment variables settings are specific to each operating system platform.

Installation Flow

The following section describes important screens that you will encounter during the installation process.

Note: For each of the following installation steps, click on the text of any item that has a checkbox next to it to obtain more information. Information is displayed in the “Description” area near the bottom of the screen.

Accept Software Licenses

After the Welcome screen there are two Accept Software License Agreement Screens you will have to click through. To proceed:

1. Click the **I accept the terms of this software agreement** checkbox.
2. Click **Next** on each screen.

Select Xilinx Products to Install

The following figure shows the screen that allows you to select the Xilinx products you wish to install.

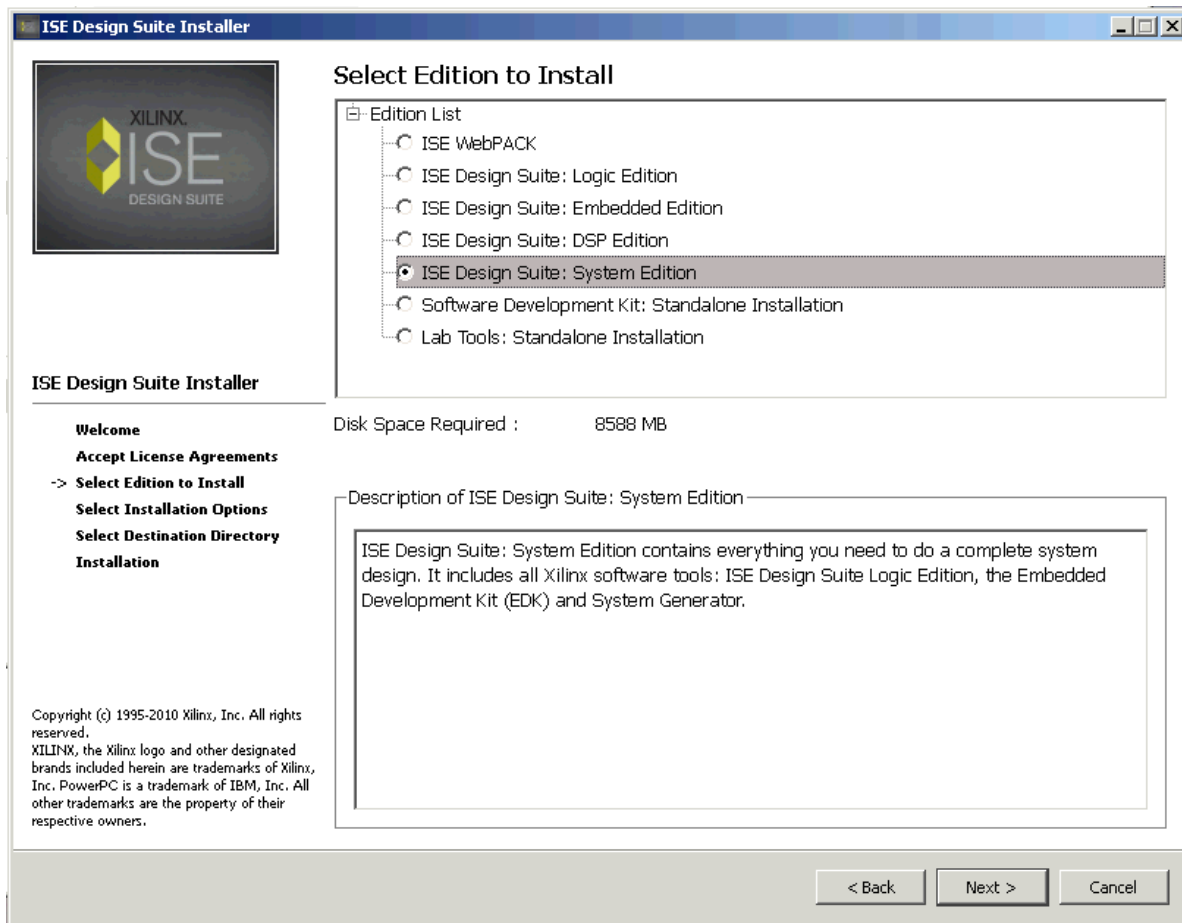


Figure 3-1: ISE Design Suite 12 Installation - Select Xilinx Products Screen

For 12.1, the product selection choices are WebPACK software, various ISE Design Suite Editions, and two standalone tools.

Note: The ISE WebPACK product installer will install both ChipScope PRO software and the Embedded Development Kit. Although installed, these applications will require a separate license to run.

Select Installation Options

There are several optional installation steps that can be performed during the installation process. If selected, these options will install toward the end of the installation process, after the main software installation has completed. Several of these options will open dialog boxes which will pause the installer until a response is given.

The following figure shows the screen from the Installation Software that enables you to select Xilinx installation options.

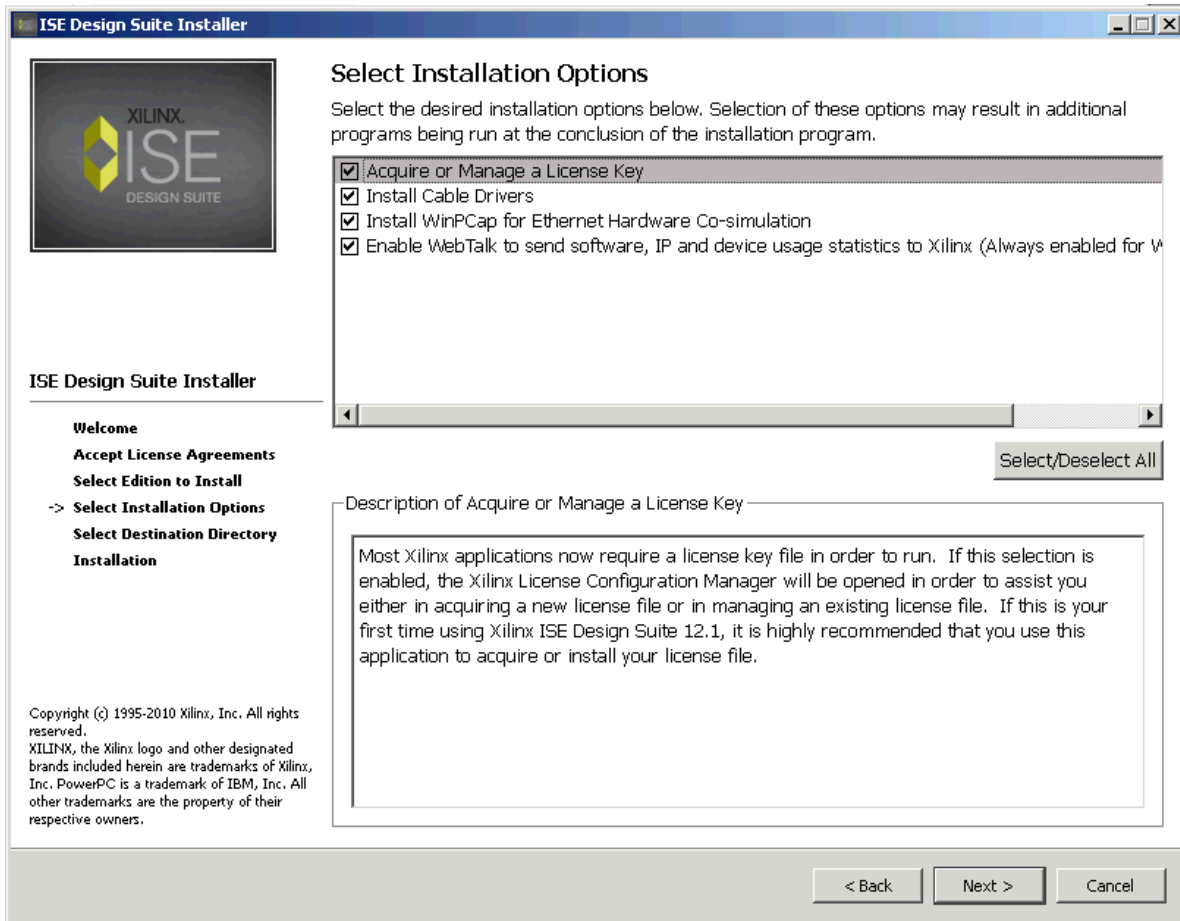


Figure 3-2: ISE Design Suite 12 Installation - Xilinx Modules and Devices

Note: Web Talk is always enabled when using WebPACK software. If the ISE WebPACK product is selected on the previous screen, the “Enable Web Talk” option will not be selectable. If you install an Edition product, the installer will allow you to deselect “Enable Web Talk.” However, if a WebPACK license is used to process the design, the “Enable WebTalk” preference will be ignored. Please click on the “Enable WebTalk” item, in the installer, and read the description box for full details.

Select Destination Directory

In the Select Destination Directory screen, select the directory in which to install the software, and enter a name for the Program Folders list. Please note that the installer will add a level of hierarchy underneath the installation path you specify. The name of the directory will vary depending upon the type of product you are installing. Any Editors or WebPACK software installation will create a directory named \ISE_DS. Lab tool standalone installations will create \LabTools and SDK software standalone installations will create \SDK. This is done to ensure that Edition and Standalone tools can coexist properly on your hard-drive.

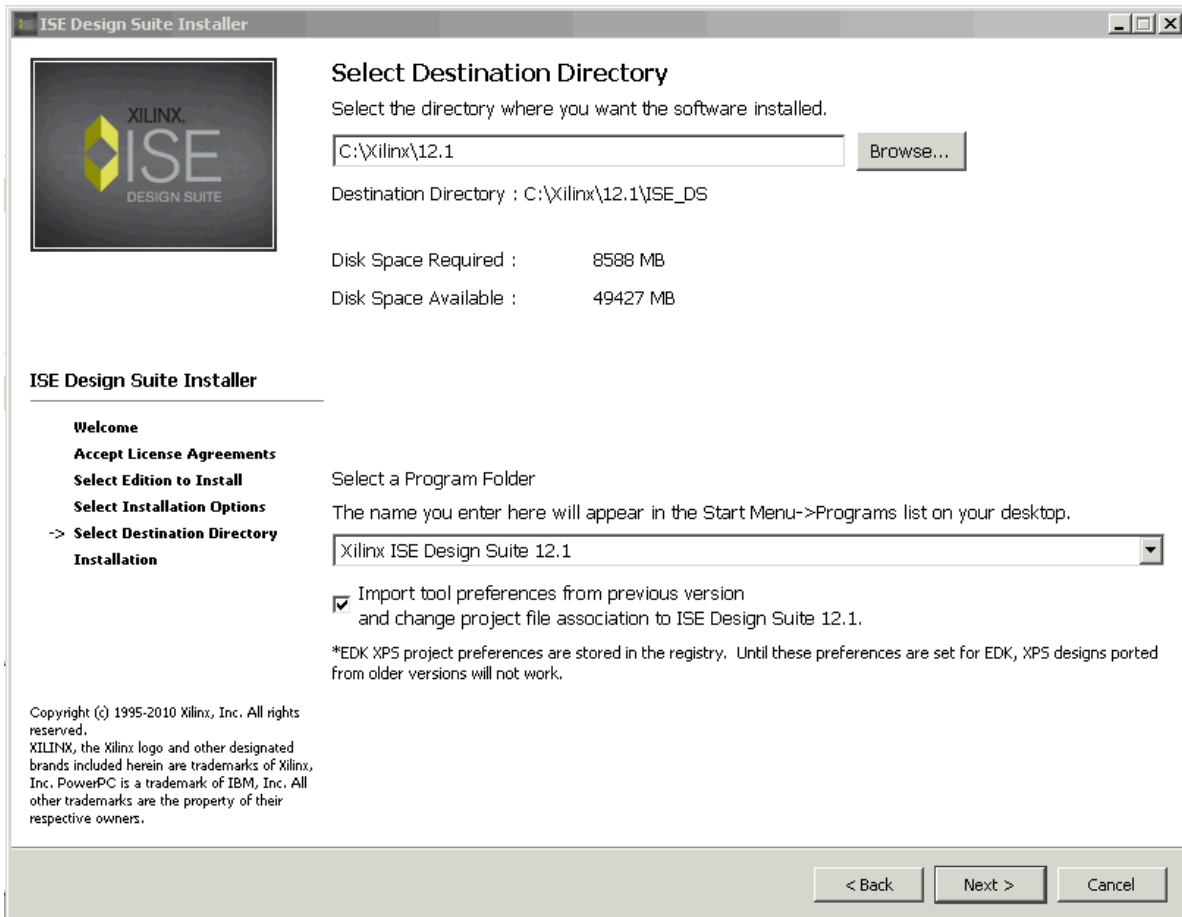


Figure 3-3: ISE Design Suite 12 Installation - Select Destination Directory

Installation Options Summary

The Installation Options Summary screen gives you a summary of the tools, products, and options to be installed. If you want to change anything, select the **Back** button and make the desired changes. To begin the installation, click **Install**.

Towards the end of the installation process, the Xilinx License Configuration Manager will open by default. Follow the instructions in the Manager to obtain or locate a license file.

Note: EDK tools require the Cygwin tools distributed by RedHat. A copy of these tools is distributed with EDK installation.

USB FLEXid Dongle Driver Installation

If you have purchased a USB FLEX ID Dongle for use with Windows operating systems, you will need to install the appropriate driver prior to creating a FLEXnet license for use with it.

1. Install Xilinx ISE Design Suite 12.1 software first. This will contain the installer for the USB FLEXid dongle driver.
2. Run **FLEXid_Dongle_Driver_Installer.exe** found in <Xilinx Installation Directory>\12.1\ISE_DS\ISE\bin\nt.
3. On the Select Options screen, ensure that only **FLEXid 9 Drivers** is checked.

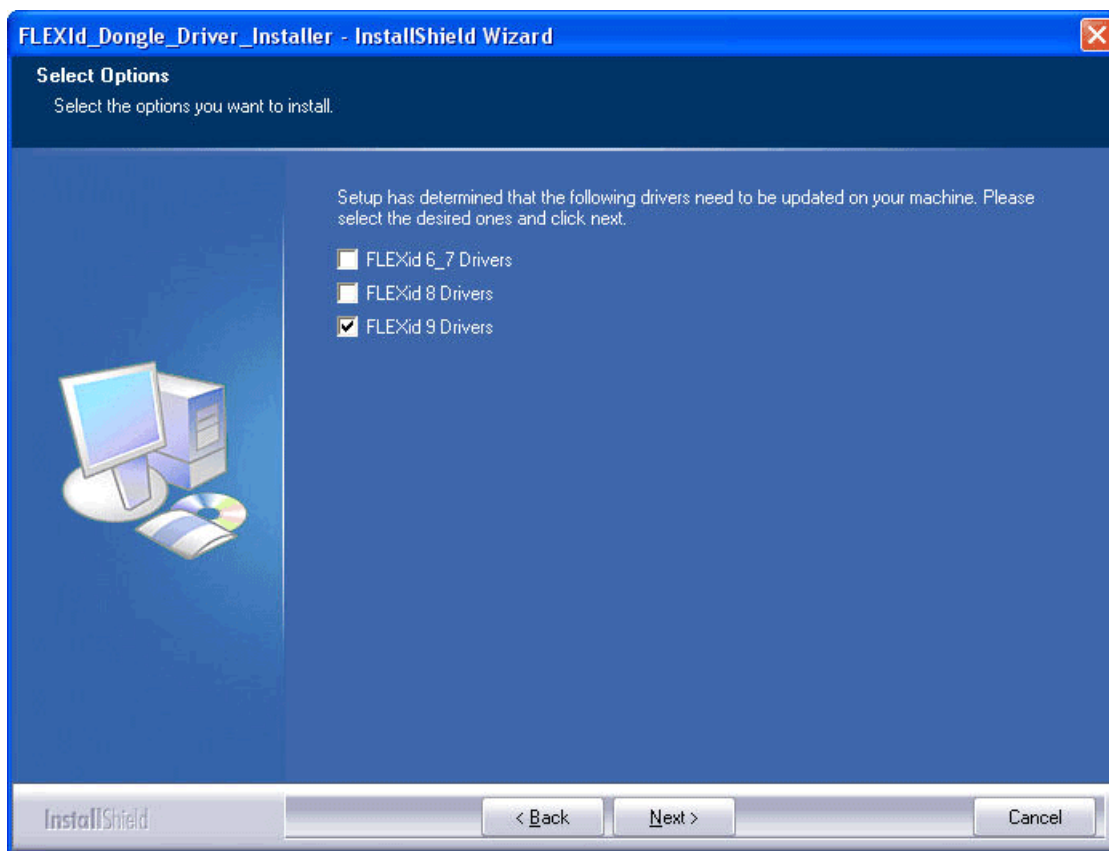


Figure 3-4: Select Options screen

4. Click **Next** twice, and the driver will install.

After installation, a screen will appear asking you if you wish to reboot. You will need to reboot to ensure that the dongle operates correctly.

Network Installations

Installing software to a network location provides a way for client machines to access the software by pointing to it on the network drive. To run the software on the network, the client machines must be set up correctly to ensure that the environment variables, registry, and program groups all point to the network. The following sections describe the procedure for network setups.

UNIX Clients

Each software user must source `settings32.(c)sh` or `settings64.(c)sh` (whichever is appropriate for your OS) from the `$XILINX` area where the software is installed. This points the Xilinx environment variable, path, and `LD_LIBRARY_PATH` to the installed location.

To run the software applications from a remotely installed location, run an X Windows display manager, and include a `DISPLAY` environment variable. Define `DISPLAY` as the name of your display. `DISPLAY` is typically `unix:0.0`. For example, the following syntax allows you to run the software on the host named `bigben` and to display the graphics on the local monitor of the machine called `mynode`:

```
setenv DISPLAY mynode:0.0
xhost = bigbenPC Clients
```

Microsoft Windows Clients

1. Install the ISE software tools to a PC network server. Make sure that your users know the location of the software tools and have access to the installation directory, and that they have Administrator privileges for the following steps.
2. From the local client machine, browse to the following directory:
`network_install_location\common\bin\nt` and run the program `shortcutSetup.bat`.
Running this program sets up the Windows settings batch files and Program Group or Desktop shortcuts to run the Xilinx tools from the remote location.
3. From the client machine, launch the ISE tools via the Program Group or Desktop shortcuts, or by running the applications on the network drive.

Installing to a Mounted Network Drive

Xilinx software is designed to be installed in a directory under `ROOT` (typically `C:\Xilinx`). The installer presents this option normally when installing to a local driver, but when installing to a mounted network drive, a subdirectory might not be defined and it appears to the Installer as if it is installing to a `ROOT` directory.

To work around this issue, define your target installation directory as `"\Xilinx"` under the network mount point (For example: `"N:\Xilinx"`).

Obtaining 12 Quarterly Releases

Xilinx will release quarterly versions of the ISE Design Suite 12 software throughout the year. Each quarterly version will contain device support updates, new features and bug fixes. Unlike previous releases, 12 quarterly releases will only be available in the full installation version. There will be no way to update from, for example, 12.1 to 12.3. Instead, the 12.3 installer will install a complete 12.3 version into separate directory on the target machine. The following sections describe the ways to obtain software updates through XilinxNotify and the Download Center.

XilinxNotify

The XilinxNotify tool is the preferred method of obtaining software updates. It provides the following features:

- Compares the latest version of Xilinx software updates available on <http://www.xilinx.com/support> with what you have installed, and notifies you if a newer version is available.

Provides a “Download” button that will launch a browser, allowing you to login to the Xilinx Download Center. Once you login, the download of your selected product will begin. XilinxNotify can be run in any of the following ways:

- Automatic periodic checks at Project Navigator startup time.
- Select **Help > Check for Updates** from Project Navigator.
- Select **Start > Programs > Xilinx ISE Design Suite 12.1 > Accessories > Check for Updates**.
- Type `xilinxnotify` in a Linux shell

Note: The **Edit > Preferences** menu selection in Project Navigator allows you to control the frequency of the automatic checks that happen at Project Navigator startup time

XilinxNotify Network Installations

By default, the **Automatically check for software updates** option at Project Navigator startup is enabled on the machine used to install the ISE software to the network location. All clients pointing to this network location have this option disabled by default. Client users have the option of enabling this option (**Edit > Preferences > XilinxNotify** from Project Navigator) and also running manual checks.

Note: To perform a software update installation, you must have write permissions for the \$XILINX installation directory.

Download Center

Quarterly releases for all platforms are regularly made available on the Download Center at:

<http://www.xilinx.com/support/download/index.htm>

Uninstalling ISE Design Suite 12

Microsoft Windows

The following sections describe how to uninstall the products that comprise ISE Design Suite on Microsoft Windows.

To uninstall any Xilinx product, select the Uninstall item from that product’s Start Menu folder. For instance, to uninstall ISE WebPACK software or an ISE Design Suite: Edition, select **Start > Programs > Xilinx ISE Design Suite 12.1 > Accessories > Uninstall**.

Depending on what you have installed, some ancillary applications may also need to be uninstalled, such as WinPcap 4.0 (optional component of DSP Tools).

Before uninstalling, be sure you have moved any project files that you want to keep outside your Xilinx installation directory structure, or they will be deleted.

Linux

To uninstall the Xilinx Design Suite product, you need to remove the Xilinx installation directory from the shell.

Installing ModelSim Xilinx Edition 6.5c Software (Windows Only) - Optional

If you have already purchased ModelSim Xilinx Edition (MXE) 6.5c, you will receive a license file after registering the MXE software after installation. For complete product and purchasing information for MXE, contact your local Xilinx representative or visit the ModelSim Xilinx Edition website:

http://www.xilinx.com/ise/optional_prod/mxe.htm

To install MXE software, perform the following steps:

1. Insert the ModelSim Xilinx Edition CD.
2. If the CD does not automatically run, select **Start > Run > D:\setup.exe**.
3. Follow the instructions to complete the installation.
4. Follow the instructions provided to complete a license request.
A license file will be e-mailed to you.
5. Put the license in a location pointed to by the LM_LICENSE_FILE variable as follows:
`set LM_LICENSE_FILE=<path_to_license>\license.dat`
You can also cut and paste the contents into your existing `license.dat` file.

Note: MXE is not a supported simulator for Xilinx Platform Studio.

Obtaining and Managing a License

The Xilinx® Product Licensing Site is an online service for licensing, and administering evaluation, and full copies of Xilinx software and IP products. This chapter describes the FLEXnet license generation functionality of the Product Licensing Site. It includes the following sections:

- [“Accessing the Product Licensing Site”](#)
- [“Product Licensing Accounts”](#)
- [“User Types and Actions”](#)
- [“Creating a License Key File”](#)
- [“Managing License Key Files”](#)
- [“Managing User Access to Product Licensing Account”](#)
- [“Installing Your License Key File”](#)

Accessing the Product Licensing Site

The Product Licensing Site is accessible in various ways depending upon the type of license being generated.

- If you purchased products, follow the link included in your order confirmation email. It will provide direct access to an account containing your product entitlements.
- If you want to evaluate ISE® Design Suite 12 products, go to www.xilinx.com/ise_eval.
- If you want to evaluate IP products, go to www.xilinx.com/ipcenter and follow the “Evaluate” link on the IP product page of interest.
- You may also access the Product Licensing Site directly by going to www.xilinx.com/getproduct. You will need to register or enter your registration information first.

Sign in to Xilinx

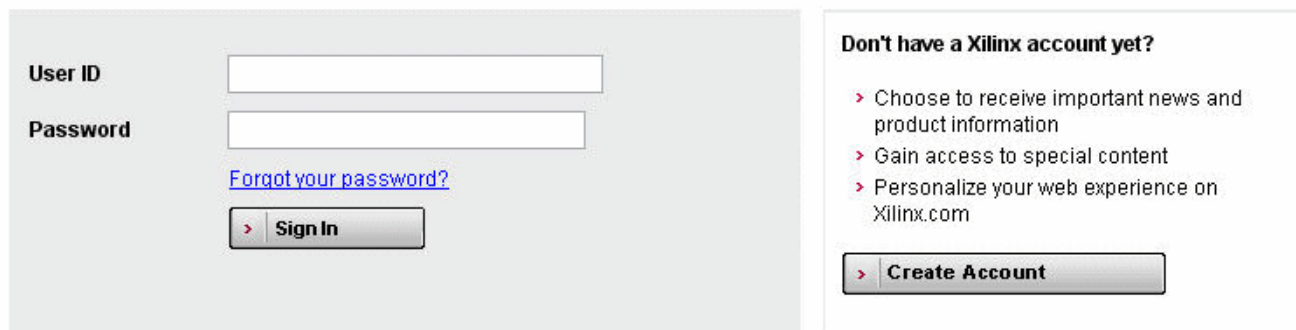


Figure 4-1: Xilinx Sign In Page

You must first sign in. If you already have a Xilinx user account, enter your user ID and password, and then validate that your contact information is current. If you do not have an account, click the **Create Account** button.

Product Licensing Accounts

When you purchase a software or IP product from Xilinx, you are purchasing a license to use and receive updates for that product for one year. The license to use Xilinx software and IP products is managed through the use of product entitlements. A product entitlement is the determination of:

- Which product was purchased
- The number of seats purchased
- The license type (floating or node-locked)
- The product subscription period (product updates are provided throughout the year)

In addition to managing the product entitlements for your purchased software tools and IP, you can also access product entitlements for “No Charge” or “Evaluation” products. Full and No Charge licenses have a subscription period of one year. Software tools evaluations are for 30 days, and IP evaluations are for 120 days.

Activating a product entitlement results in one or more license keys being generated by the website. When installed, the license keys enable the use of the software and IP that was purchased or is being evaluated. Your product entitlements and resulting license key files are managed in a product licensing account on the Xilinx website.

Product licensing accounts are specific to the individual listed on the Xilinx Software Purchase Order, which is either the end-user or administrator of the software. All purchases made can be managed in the same product licensing account if a single administrator is named, or a company site can have multiple accounts managed by different administrators. The latter is helpful if a site has multiple design teams working on differing projects with different budget pools.

Note: A license key can be generated for a product entitlement that has expired; however, it will only enable product releases up to the subscription end date. Applying a product update that was made available after the subscription end date of your license will result in an error.

LogiCORE IP License Generation In ISE Design Suite 12

Beginning in ISE Design Suite 12, LogiCORE™ IP licenses are no longer generated through lounges on the Xilinx website. Instead, the entitlement process for LogiCORE IP has been automated and will use the same electronic entitlement process used for other software. When a purchase order for LogiCORE IP is entered into the Xilinx system, it will be processed in less than 2 hours, following which you can generate LogiCORE IP licenses on the Product Licensing Site, as described in this section.

Any IP and software entitlements you have purchased will appear in your list of entitled products when you log into the Product Licensing Site. Licenses for Evaluation and No Charge IP will also be available on the site in a separate area. Licenses for all your software and IP can now be generated in one pass and are emailed to you in a single license file. In addition, IP core FLEXnet licenses now feature more licensing options, such as single or Triple-Redundant Floating Server support, and more host options for node-locked license keys: Ethernet MAC address, Hard-Drive Serial Number or USB Dongle ID.

User Types and Actions

There are three user types for the Product Licensing Site: customer account administrator, end user, and evaluation user.

Customer Account Administrator

An example of a typical customer account administrator is a CAD tools manager. Every product licensing account *must* have at least one customer account administrator. A customer account administrator can manage more than one product licensing account.

The responsibilities as the customer account administrator include:

- Generating node-locked or floating licenses for Xilinx software and IP products.
- Adding and removing users from the product licensing account (as desired).
- Assigning administrative privileges to other users (as desired).
- Ordering product DVDs (if applicable).

The original customer account administrator is the “Ship To” contact that is identified during the product ordering process. That person will receive an email with instructions on how to download and license each of the products that were purchased. It is important that the customer account administrator follow the link in the email, as it will ensure that he can obtain access to the purchased products.

End User

Adding end users to a product licensing account allows an engineer or design team member the flexibility to manage and generate license keys on their own. The end user may generate license keys for node-locked products entitlements within the account. An end user is also allowed to generate license keys for evaluation software and evaluation of no charge IP products. Some restrictions are placed on the role of end user.

- An end user is not able to generate floating license keys. Only customer account administrators can generate server based (floating) license keys. Product entitlements for floating licenses are not viewable by end users in an account.
- An end user is not able to view the license keys generated by other users.

- An end user is not able to add or remove other users to or from the product licensing account.

Evaluation User

An evaluation user is someone who would like to test-drive ISE Design Suite 12 products. Evaluation users can:

- Generate a 30-day free evaluation license key for ISE Design Suite 12: System Edition
- Generate license keys for evaluation and no charge IP products
- Request an ISE Design Suite 12 DVD. Evaluation users must pay for the shipping of DVDs.

Note: A customer who is already licensed for a full version of an ISE Design Suite product edition can test-drive other ISE Design Suite product editions or IP. These product entitlements are made available in the same product licensing account.

All user types can download products electronically and request an ISE Design Suite 12 DVD.

Creating a License Key File

The Create License tab on the Product Licensing Site is the starting point for license key file generation. The software tool and IP product entitlements you have purchased or wish to evaluate are presented in the product entitlement table.

Home : Support : Product Licensing
Product Licensing

Looking to register 10.1 or earlier software products?

Account: Xilinx Test Account - 10101 Help

[Create New Licenses](#) [Manage Licenses](#) [Manage Users](#)

Create a New License File for Account: Xilinx Test Account

Create a new license file by making your product selections from the table below. Floating and Node-Locked licenses cannot be combined in the same license file. [?](#)

+ Add Evaluation and No Charge IP Cores to Product Table						
Product	Type	License	Available Seats	Status	Subscription End Date	
<input type="checkbox"/> ISE Design Suite: System Edition	Evaluation	Node	1/1	Current	30 days	
<input checked="" type="checkbox"/> ChipscopePro Standalone Including Serial IO Toolkit	Full	Floating	50/50	Current	30 MAR 2010	
<input type="checkbox"/> ChipscopePro with Serial IO Toolkit, Transitional License	Full	Node / Floating	50/50	Current	30 MAR 2010	
<input checked="" type="checkbox"/> ISE Design Suite: System Edition	Full	Floating	50/50	Current	30 MAR 2010	
<input type="checkbox"/> LogiCORE, 10 Gigabit Ethernet MAC	Full	Node / Floating	Site	Current	30 MAR 2010	
<input type="checkbox"/> LogiCORE, 32-bit and 64-bit Initiator/Target for PCI	Full	Node / Floating	Site	Current	30 MAR 2010	

[Generate Floating License](#) [Generate Node-Locked License](#)

What is the difference between a floating and a node license? [?](#)

Figure 4-2: Create New License

Selecting Products

Begin the license generation process for products you have purchased or wish to evaluate by performing the following actions:

1. Select the product licensing account you wish to administer.
2. From the Account drop-down list, select your desired account.

Note: This selection will not be available if you are only entitled to evaluation or free products.
3. Make your product selections from the product entitlement table.

The type of product entitlements available are Full (purchased), No Charge, or Evaluation. Full and No Charge licenses have a subscription period of 1 year. Software tools evaluation is for 30 days, and IP evaluations are for 120 days.

Floating and node-locked licenses cannot be combined in the same license key file, and the interface is designed to prevent this.

Note: A floating license resides on a network server and enables applications to check out a license when they are invoked. At any one time, the number of licenses for simultaneous users is restricted to that of the license seats purchased. A node-locked license allows for the use of a single seat of a product entitlement on a specific machine.

For software tools, available seats represents the number of seats available for licensing over the total number of seats purchased. For IP, seats are managed according to the terms of the site wide license agreement.

Products with a status of “Current” are within their warranty period. Products with a status of “Expired” have a warranty period end date that has passed. If seats are available, licenses can be generated for either “Current” or “Expired” product entitlements.

The ISE Design Suite: System Edition evaluation product entitlement provides access to all the capabilities in the ISE Design Suite tool set. This product entitlement is automatically included in your product licensing account.

Evaluation and No Charge IP can be added to the list of product entitlements by clicking the **Click here to add Evaluation and No Charge IP Cores** button. This brings up an IP product finder tool pictured below.

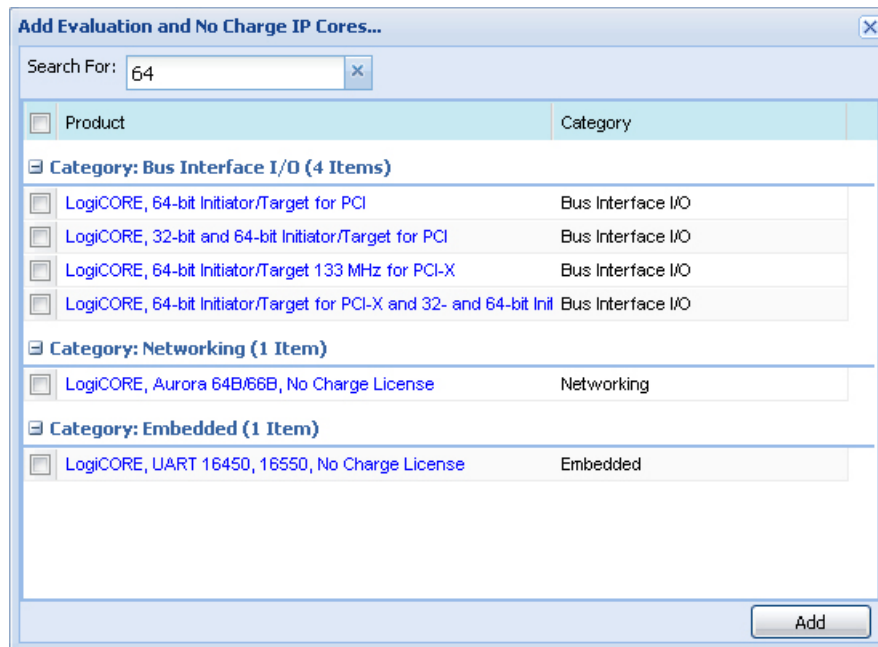


Figure 4-3: IP Product Selector

Note: IP products are typically sold as site licenses providing the administrator the ability to generate license keys for floating and node-locked license types.

Note: End users will only see product entitlements for node-locked products. The customer account administrator, or an End User who has been granted Floating License generation status by the administrator will see product entitlements for both node-locked and floating products.

Generating a License

Click the **Generate License** button that corresponds to the type of license key file you are generating (floating or node-locked). The license generation form shown below appears.

Generate Floating License
*Fields marked with an asterisk * are required.*

1 PRODUCT SELECTION

Product Selections *	Product	Type	Available Seats	Subscription End Date	Requested Seats
<input checked="" type="checkbox"/>	ChipscopePro Standalone Including	Full	50/50	30 MAR 2010	50
<input checked="" type="checkbox"/>	ISE Design Suite: System Edition	Full	50/50	30 MAR 2010	50

2 SYSTEM INFORMATION

License: Floating

Redundancy [?](#) Non-Redundant Triple Redundant

Host ID [?](#)

3 COMMENTS

Comments [?](#)

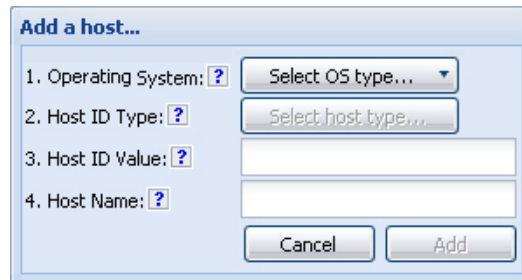
Figure 4-4: Generate Floating License

Complete the form as follows:

1. Select the number of seats required for each product license.
 This is for floating licenses only. All node-locked licenses are for one seat. The number of seats available for a product entitlement is automatically maintained by the system. The "Requested Seats" field is populated, by default, with the full number of seats remaining on the product entitlement. A product is removed from the product entitlement table if all seats have been activated.
2. Enter system information.
 System information is pre-populated in the option menu if you arrived at the Product Licensing Site from a link within the Xilinx License Configuration Manager (XLCM).

A redundant server configuration provides a fail over for the license manager software. As long as two of the three servers are running, the license manager can continue to run.

If you do not have pre-populated system information or wish to add a different host, select the **Add a host** option from the option menu.



The dialog box titled "Add a host..." contains four numbered fields:

- Operating System: ? (with a dropdown menu labeled "Select OS type...")
- Host ID Type: ? (with a dropdown menu labeled "Select host type...")
- Host ID Value: ? (with an empty text input field)
- Host Name: ? (with an empty text input field)

At the bottom of the dialog are "Cancel" and "Add" buttons.

Figure 4-5: Add a Host

The host ID is a value that uniquely identifies the machine to which your software tools or IP is licensed. You may choose a host ID type to be a MAC address, a hard drive serial number, a dongle ID, or a Solaris host ID.

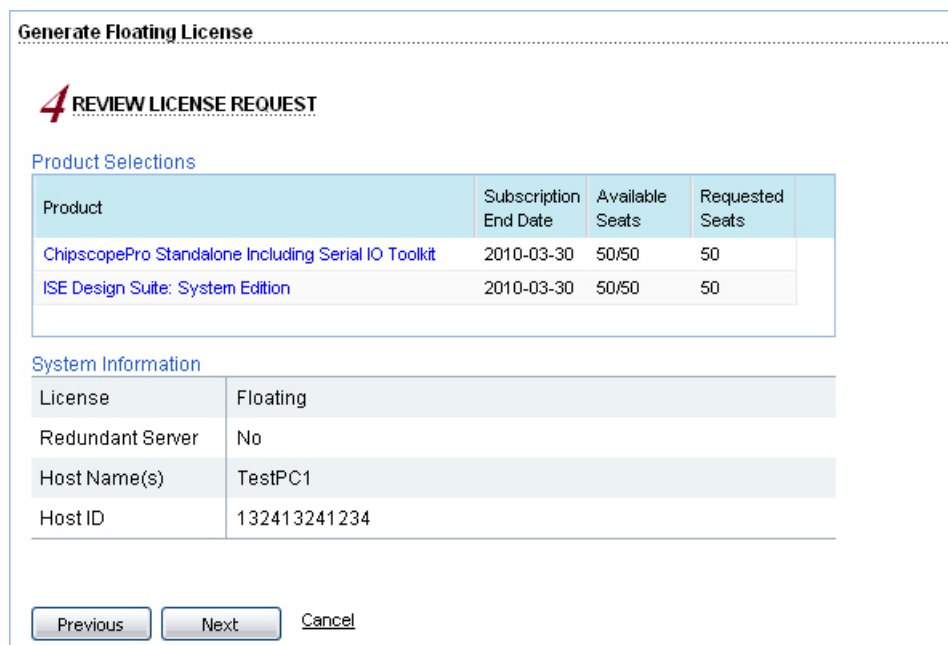
Note: Not all host ID types are supported for all operating systems. The easiest way to obtain your host ID is to run the XLCM on the machine that will serve as the license host.

3. Enter a comment.

Adding a comment to the license key file makes it easy for an administrator to keep notes on how software and IP product entitlements are allocated among users.

4. Click **Next**.

The Review License Request form appears.



The "Generate Floating License" window displays the "4 REVIEW LICENSE REQUEST" screen. It includes a "Product Selections" table and a "System Information" table.

Product	Subscription End Date	Available Seats	Requested Seats
ChipscopePro Standalone Including Serial IO Toolkit	2010-03-30	50/50	50
ISE Design Suite: System Edition	2010-03-30	50/50	50

System Information	
License	Floating
Redundant Server	No
Host Name(s)	TestPC1
Host ID	132413241234

At the bottom of the form are "Previous", "Next", and "Cancel" buttons.

Figure 4-6: Review License Request

5. Review your selections.
6. If you are satisfied with your selections, click **Next**.

End User License Agreements (EULAs)

ISE Design Suite Software tools and No Charge IP product EULAs are agreed to during the product installation process. If you license IP products, you must accept the terms of the associated IP product EULAs before the license file can be generated.

Third-Party Licenses

A complete copy of the third-party licenses for 12.1 is located here:
<install_directory>/common/licenses/unified_3rd_party_eulas_12_1.txt

License Generation Confirmation

Upon completion of the license generation process, you will receive a confirmation message providing a summary of your licensing activity.

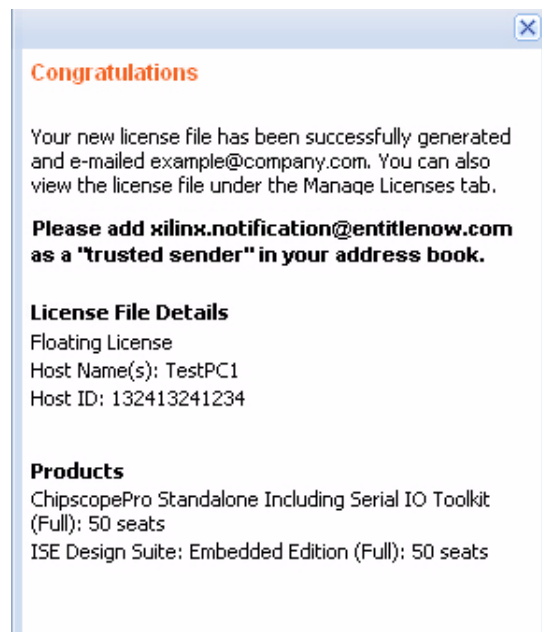


Figure 4-7: License Generation Confirmation

You will also receive a license generation confirmation email. This message contains the license key file that was generated as an attachment. Add 'xilinx.notification@entitlenow.com' as a trusted sender in your email address book.

Managing License Key Files

The Product Licensing Site keeps track of the license key files you have generated. Select the 'Manage Licenses' tab to see all of the license key files that have been generated for your product licensing account.

My Account | Sign Out | Language | Documentation | Downloads | Contact Us

XILINX enter keywords Advanced Search

Product & Services | Technology Solutions | Market Solutions | Support | Buy Online | About Xilinx

Home : Support : Product Licensing
Product Licensing

Looking to register 10.1 or earlier software products?

Account: Xilinx Test Account - 10101 Help

Create New Licenses | **Manage Licenses** | Manage Users

Manage License Files for Account: Xilinx Test Account

Host Name	Host Type	Host ID	License Type	OS	Created By	Created Date
TestPC1	Ethernet MAC	132413241234	Floating	Windows 32-bit	Demo User	30 MAR 2009
TestPC2	Ethernet MAC	abcde12abcde	Node	Windows 32-bit	Demo User	30 MAR 2009
TestPC4	Ethernet MAC	129012901290	Node	Windows 32-bit	Demo User	30 MAR 2009

TomTestPC1 **132413241234** **Floating** **Tom Hirsh** **30 MAR 2009**

Comments
ISE Design Suite product licenses for Portland design team. Reference PO #123456.

Product	Type	Status	Subscription End Date	Activated Seats
ISE Design Suite: Embedded Edit	Full	Current	30 MAR 2010	40
ChipscopePro Standalone Includ	Full	Current	30 MAR 2010	50

Jobs | Investors | Feedback | Legal | Privacy | Trademarks | Sitemap

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Figure 4-8: Manage Licenses

From the Manage Licenses page, the actions described below can be taken depending upon your needs.

Exploring and Retrieving Your Existing License Key Files

Information regarding the license key files that have been generated in your product licensing account are presented in a “master / detail” view. By clicking on a row in the master view in the top table, detailed information about the license key file is displayed in the detail view in the bottom table. The detail view table includes the following:

- A list of product entitlements that have been activated in the key file.
- Comments associated with the key file.
- Ability to download, email, or copy and paste the contents of the license key file (click the corresponding icons on the lower left portion of the detail view).
- Ability to delete a license key file.
- Ability to view the end user license agreement you accepted (if applicable).

Modifying a License Key File

In order to modify an existing license key file, select the license key file in the master view and then click the **Modify License** button in the detail view. A license key file can be modified in one of the following ways:

- Rehosting or changing the license server host for a license key file.
- Activating or adding additional seats to an existing licensed product entitlement.
- Deactivating or removing seats from an existing licensed product entitlement.
- Activating or adding additional product entitlements to a license key file.
- Deactivating or deleting product entitlements from a license key file.

The process for modifying a key file uses the same input form as when the license key file was created except that additional product entitlements of the same license type (floating or node-locked) are made available for licensing.

Reclaiming Deactivated Product Entitlements

A product entitlement is deactivated when one of the following activities occur:

- Rehosting or changing the license server host for a license key file.
- Deactivating or removing seats from an existing licensed product entitlement.
- Deactivating or deleting product entitlements from a license key file.

The license generation facility will allow for the reallocation of the deactivated seats or product entitlements by making the corresponding seats or product entitlements available for activation in the product entitlements table on the Create License page.

Before the reallocation of entitlement occurs, you must first agree to an Affidavit of Destruction. This legal agreement is required to ensure that the deactivated product entitlements are no longer being used.

The number of allocation operations is recorded for each user. Administrators are allowed to reallocate product entitlements five times per major release, and end users are allowed to reallocate product entitlements three times per major release.

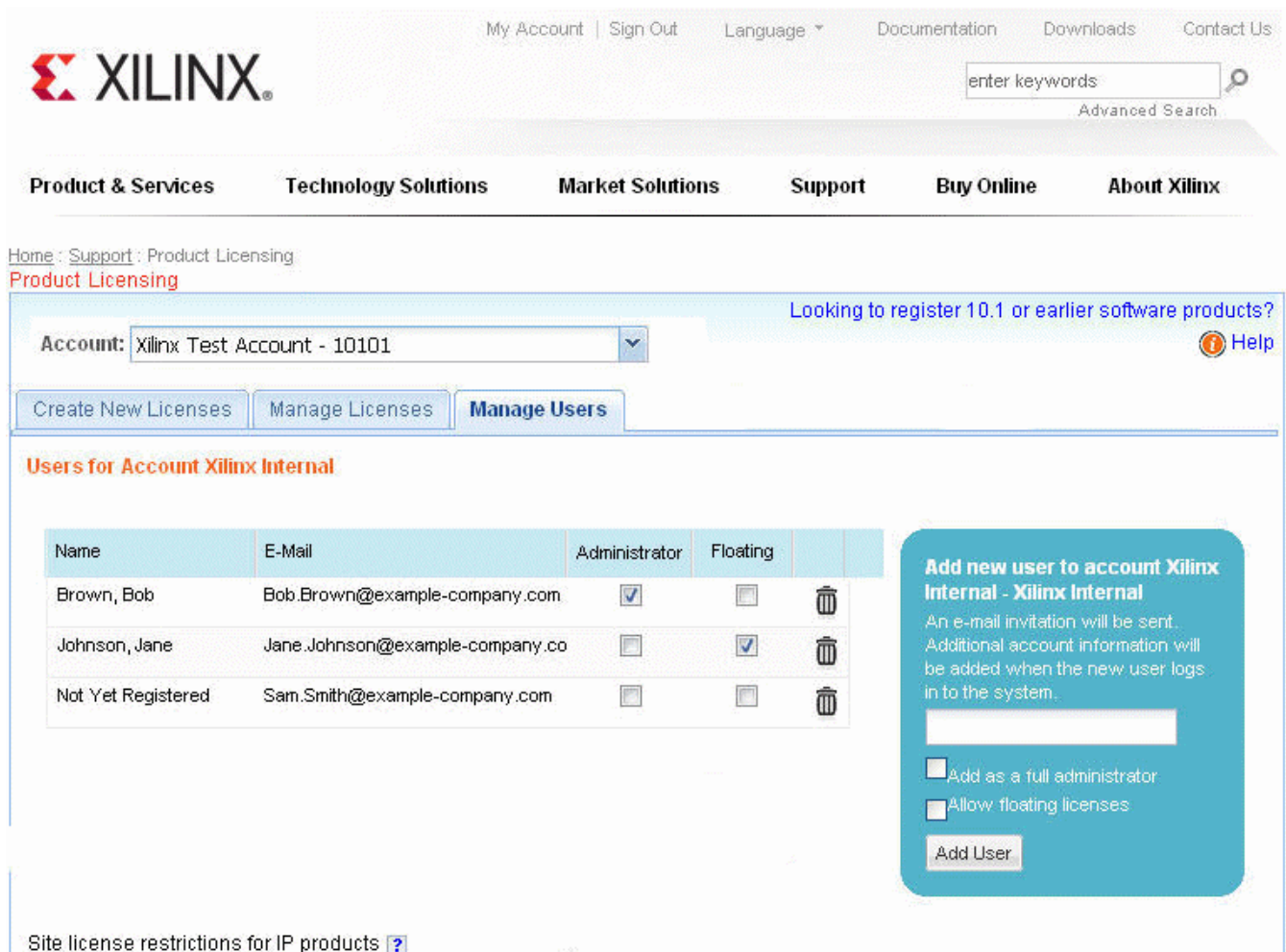
What Happens to Your License Key File

For each product entitlement that is activated, a FLEXnet increment line and corresponding package line is added to the license key file. When a license key file is modified to activate (add) seats for an existing or new product entitlement, additional increment or package lines are added to the license key file.

When a license key file is “rehosted” or is modified to deactivate (delete) seats or product entitlements, the corresponding increment lines are regenerated or removed from the modified license key file.

Managing User Access to Product Licensing Account

The responsibility of administering a product licensing account may be transferred or shared with another user. The ability to add or remove users from a product licensing account is managed under the ‘Manage Users’ tab.



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Account:

Users for Account Xilinx Internal

Name	E-Mail	Administrator	Floating	
Brown, Bob	Bob.Brown@example-company.com	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="trash"/>
Johnson, Jane	Jane.Johnson@example-company.co	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value="trash"/>
Not Yet Registered	Sam.Smith@example-company.com	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="trash"/>

Add new user to account Xilinx Internal - Xilinx Internal
 An e-mail invitation will be sent. Additional account information will be added when the new user logs in to the system.

Add as a full administrator
 Allow floating licenses

Site license restrictions for IP products

Figure 4-9: Manage Users

Adding Users

To add a user to your product licensing account:

1. Type in the corporate email address of the new user.
2. Check the **Add as a full administrator** check box, if you want the new user to have customer account administrative privileges. Check the **Allow Floating Licenses** check box, if you wish the user to be able to generate Floating Licenses, but not have full administrative privileges on the account.

Note: The email address you provide must be the same email address the user supplied or supplies when creating their Xilinx account. If not, the user may not be properly recognized when logging in.

If a user has already logged into the Product Licensing Site, their name will automatically appear in the user list. If the user has never been to the site, the words “Not Yet Registered” will appear in the space for their name. Once the user has completed the sign in process, their name will be filled in.

In some instances, a customer account administrator may wish to have design team members administer license key files for their own use. By leaving both Add as full administrator and Allow Floating Licenses check boxes unchecked, the user will have the following restricted privileges:

- Only able to generate node-locked license keys.
- Only able to view and modify license key files they generated for themselves.
- Unable to manage users.

If you only check Allow Floating Licenses, the restriction on node-locked keys is lifted, but the others remain. Checking both boxes is not allowed, as full administrators already have floating license generation capability.

Removing Users

Administrative or floating license generation privileges may be removed from users of an account by unchecking the “Administrator” or “Floating” check box that corresponds to the respective user.

To remove a user from a product licensing account, click the Trash can icon that corresponds to the respective user.

Installing Your License Key File

Node Lock License Installation

After generating a license file, you will receive an e-mail from ‘xilinx.notification@entitlenow.com’.

1. Save the license file attached to the e-mail to a temporary directory on your local system
2. Run the Xilinx License Configuration Manager:
 - ◆ For Windows: Select **Start > Programs > Xilinx ISE Design Suite 12 > Accessories > Manage Xilinx Licenses**.
 - ◆ For Linux: Type **xlcm** in a command-line shell.
3. Go to the 'Manage Xilinx Licenses' tab.

4. Click the **Copy License** button at the top of the page.
5. Browse to your license file (`Xilinx.lic`) and click **Open**.
This will copy this license file to the `C:\Xilinx` (Windows) or `<Home>/Xilinx` directory of your machine where it will be automatically found by the Xilinx tools.
6. Following the “Copy License” operation, the table on the Manage Xilinx Licenses tab will be updated with licensing information from the license file.
7. Press **Close** to exit the Xilinx License Configuration Manager.

Floating License Installation on Servers

For existing FLEXnet license servers, a common practice is to copy the contents of the license file, mailed from ‘`xilinx.notification@entitlenow.com`’, into the existing license file on your FLEXnet server.

Note: Restart the floating license server to enable the Xilinx licenses.

For New License Servers

1. Download the appropriate Xilinx FLEXnet license utilities for your server's operating system from the Xilinx Download Center:
<http://www.xilinx.com/download/index.htm>
Note: Only customer account administrators on the Product Licensing Site have access to FLEXnet license utilities. To see if you are a customer account administrator, refer to the description in “[User Types and Actions](#).”
2. Unzip these utilities into a destination directory. It is recommended that you place this directory into your application search path.
3. Once the FLEXnet utilities are installed, you can run the following commands to start the floating license server:
 - ◆ For Linux
 - `<Server Tool directory>/bin/linux/lmgrd -c <path_to_license>/Xilinx.lic -l <path_to_license>/log1.log`
 - `<Server Tool directory> bin/linux64/lmgrd -c <path_to_license>/Xilinx.lic -l <path_to_license>/log1.log`
 - ◆ For Windows
 - `<Server Tool directory>\bin\nt\lmgrd -c <path_to_license>\Xilinx.lic -l <path_to_license>\log1.log`
 - `<Server Tool directory>\bin\nt64\lmgrd -c <path_to_license>\Xilinx.lic -l <path_to_license>\log1.log`

Client machines pointing to a floating license

1. Run the Xilinx License Configuration Manager (XLCM).
2. From the Acquire a License screen of the XLCM, click the 'Manage Xilinx Licenses' tab.
3. On the Manage Xilinx Licenses tab, enter the network path to the license server in the port@server format into the XILINXD_LICENSE_FILE field, and press the **Set** button next to it. The default Xilinx port number is 2100.

Note: For Linux operating systems, licensing environment variables cannot be set using the Xilinx License Configuration Manager (XLCM). The environment variable fields are read only, and they are grayed out and there are no "Set" buttons. The environment variable must be set using the appropriate shell and commands.

Technical Support, Services, and Documentation

This chapter describes how to access technical support, services, and documentation that are available. This chapter contains the following sections:

- “Technical Support”
- “Education Services”
- “Documentation”

Technical Support

For technical questions, visit the Xilinx® support site,

www.xilinx.com/support/mysupport.htm

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- Documentation Center , www.xilinx.com/support/documentation/index.htm
- Download Center, www.xilinx.com/support/download/index.htm
- Answer Browser, www.xilinx.com/support/answers/index.htm
- Xilinx User Community Forums, <http://forums.xilinx.com/xlnx>
- Design Resources - Video Demonstrations, www.xilinx.com/design

If you cannot resolve your issue using our online resources, you can contact Xilinx Technical Support directly at:

www.xilinx.com/support/techsup/tappinfo.htm

Education Services

Xilinx provides targeted, high-quality education services designed by experts in programmable logic design, and delivered by Xilinx qualified trainers. Available are onsite and online instructor led courses, and recorded e-learning for self paced learning.

For more information on training courses, free on-demand training, live online training, and upcoming events, visit the Xilinx Training website,

www.xilinx.com/support/education-home.htm

Documentation

Xilinx offers technical documentation to assistant users with using the ISE® Design Suite tools.

Context-Sensitive Help

Context-sensitive online Help is available for most ISE Design Suite tools that are available with a graphical user interface (GUI). From Project Navigator, select **Help > Help Topics** to access the online Help.

Software Manuals

Detailed software manuals about the ISE Design Suite applications and command-line functions are included as part of the software installation. After you install the software, you can select the **Help > Software Manuals** command in Project Navigator to access the software manuals collection.

Note: If you do not already have Adobe Acrobat Reader installed, you must do so to view the software manuals.

A new documentation navigation page is now the default startup page in Xilinx Platform Studio (XPS). From the documentation tab you can browse to all Embedded Development Kit (EDK) documentation. From outside XPS, open the file `edk_documentation_locator.htm`, which is found at `$XILINX_EDK/doc`.

To locate the Software Manuals on the website:

1. Go to the Documentation Center,
<http://www.xilinx.com/support/documentation/index.htm>
2. Click the **Design Tools** tab.
3. Click the Design Tool category, such as ISE, or click the **See All Design Tools Documentation** link.

User Tutorials

Tutorials can be found online at:

<http://www.xilinx.com/support/techsup/tutorials/index.htm>

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-- Most of the Q&A's are based on, paraphrased from, and outright stolen from this thread:

<http://gcc.gnu.org/ml/libstdc++/2000-q2/subjects.html#00050>

Q: So any program which uses libstdc++ falls under the GPL?

A: No. The special exception permits use of the library in proprietary applications.

Q: How is that different from the GNU {Lesser,Library} GPL

-- Quoting Jason Merrill from the thread above: --

A: The LGPL requires that users be able to replace the LGPL code with a modified version; this is trivial if the library in question is a C shared library. But there's no way to make that work with C++, where much of the library consists of inline functions and templates, which are expanded inside the code that uses the library. So to allow people to replace the library code, someone using the library would have to distribute their own source, rendering the LGPL equivalent to the GPL.

Q: I see. So, what restrictions are there on programs that use the library?

A: None. We encourage such programs to be released as open source, but we won't punish you or sue you if you choose otherwise.

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OVERVIEW

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This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the

library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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 FILE: ./src/gdb/COPYING
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Q: How is that different from the GNU {Lesser,Library} GPL

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libgcc_s

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@(#) \$Id: arcnet.h,v 1.2 2001/04/24 02:17:52 guy Exp \$ (LBL)

from: NetBSD: if_arc.h,v 1.13 1999/11/19 20:41:19 thorpej Exp

RFC 1051

File: /home/sps/ttt/libpcap-1.0.0/./atmuni31.h

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@(#) \$Header: /tcpdump/master/libpcap/atmuni31.h,v 1.1.6.2 2007/10/22 19:30:14 guy
Exp \$ (LBL)

Based on UNI3.1 standard by ATM Forum
ATM traffic types based on VPI=0 and (the following VCI

File: /home/sps/ttt/libpcap-1.0.0/./bpf_dump.c

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@(#)bpf.c7.5 (Berkeley) 7/15/91

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File: /home/sps/ttt/libpcap-1.0.0/./dlpisubs.c

This code is derived from code formerly in pcap-dlpi.c, originally contributed by Atanu Ghosh (atanu@cs.ucl.ac.uk), University College London, and subsequently modified by Guy Harris (guy@alum.mit.edu), Mark Pizzolato <List-tcpdump-workers@subscriptions.pizzolato.net>, Mark C. Brown (mbrown@hp.com), and Sagun Shakya <Sagun.Shakya@Sun.COM>.

This file contains dlpi/libdlpi related common functions used by pcap-[dlpi,libdlpi].c.

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```
@(#) $Header: /tcpdump/master/libpcap/ethertype.h,v 1.14 2005/09/05 09:06:58 guy  
Exp $ (LBL)
```

```
File: /home/sps/ttt/libpcap-1.0.0/./fad-getad.c
```

```
Mode: c; tab-width: 8; indent-tabs-mode: 1; c-basic-offset: 8; -*- */
```

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fad-sita.c: Packet capture interface additions for SITA ACN devices

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\$FreeBSD: src/sys/net80211/ieee80211.h,v 1.10 2005/07/22 16:55:27 sam Exp \$

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File: /home/sps/ttt/libpcap-1.0.0/./nametoaddr.c

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Name to id translation routines used by the scanner.
These functions are not time critical.

File: /home/sps/ttt/libpcap-1.0.0/./nlpid.h

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@(#) \$Header: /tcpdump/master/libpcap/nlpid.h,v 1.2 2002/12/06 00:01:34 hannes Exp
\$ (Juniper)

Types missing from some systems

Network layer protocol identifiers

File: /home/sps/ttt/libpcap-1.0.0/./optimize.c

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Optimization module for tcpdump intermediate representation.

File: /home/sps/ttt/libpcap-1.0.0/./pcap-bpf.c

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@(#) \$Header: /tcpdump/master/libpcap/pcap-bpf.h,v 1.50 2007/04/01 21:43:55 guy
Exp \$ (LBL)

File: /home/sps/ttt/libpcap-1.0.0/./pcap-bt-linux.c

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Bluetooth sniffing API implementation for Linux platform

By Paolo Abeni <paolo.abeni@email.it>

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Bluetooth sniffing API implementation for Linux platform

By Paolo Abeni <paolo.abeni@email.it>

@(#) \$Header: /tcpdump/master/libpcap/pcap-bt-linux.h,v 1.4.2.1 2008-04-04 19:39:05
guy Exp \$ (LBL)

Prototypes for Bluetooth-related functions

File: /home/sps/ttt/libpcap-1.0.0/./pcap-dlpi.c

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Exp \$ (LBL)

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File: /home/sps/ttt/libpcap-1.0.0/./pcap-linux.c

pcap-linux.c: Packet capture interface to the Linux kernel

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Modifications: Added PACKET_MMAP support
Paolo Abeni <paolo.abeni@email.it>

based on previous works of:
Simon Patarin <patarin@cs.unibo.it>
Phil Wood <cpw@lanl.gov>

File: /home/sps/ttt/libpcap-1.0.0/./pcap-namedb.h

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guy Exp \$ (LBL)

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packet filter subroutines for tcpdump
Extraction/creation by Jeffrey Mogul, DECWRL

File: /home/sps/ttt/libpcap-1.0.0/./pcap-sita.c

pcap-sita.c: Packet capture interface additions for SITA ACN devices

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Modifications made to accommodate the new SunOS4.0 NIT facility by
Micky Liu, micky@cunixc.cc.columbia.edu, Columbia University in May, 1989.
This module now handles the STREAMS based NIT.

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USB sniffing API implementation for Linux platform

By Paolo Abeni <paolo.abeni@email.it>

Modifications: Kris Katterjohn <katterjohn@gmail.com>

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By Paolo Abeni <paolo.abeni@email.it>

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guy Exp \$ (LBL)

Prototypes for USB-related functions

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```
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(LBL)
```

```
File: /home/sps/ttt/libpcap-1.0.0/./ppp.h
```

```
@(#) $Header: /tcpdump/master/libpcap/ppp.h,v 1.12 2005/02/08 19:52:19 guy Exp $
(LBL) */
```

Point to Point Protocol (PPP) RFC1331

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File: /home/sps/ttt/libpcap-1.0.0/./savefile.c

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savefile.c - supports offline use of tcpdump
Extraction/creation by Jeffrey Mogul, DECWRL
Modified by Steve McCanne, LBL.

Used to save the received packet headers, after filtering, to a file, and then read them later.
The first record in the file contains saved values for the machine dependent values so we can print the dump file on any architecture.

File: /home/sps/ttt/libpcap-1.0.0/./sunatmpos.h

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```
@(#) $Header: /tcpdump/master/libpcap/sunatmpos.h,v 1.1 2002/07/11 09:06:47 guy
Exp $ (LBL)
```

SunATM header for ATM packet */

File: /home/sps/ttt/libpcap-1.0.0/./Win32/Src/ffs.c

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```
#include <sys/cdefs.h>
```

```
__FBSDID("$FreeBSD: /repoman/r/ncvs/src/lib/libc/net/gai_strerror.c,v 1.1  
2005/04/06 12:45:51 ume Exp $");
```

File: /home/sps/ttt/libpcap-1.0.0/./Win32/Src/getaddrinfo.c

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\$Id: inet_aton.c,v 1.2 2003/11/15 23:24:06 guy Exp \$ */

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\$Id: inet_pton.c,v 1.3 2007/09/27 18:02:20 gianluca Exp \$ */

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\$Id: addrinfo.h,v 1.1 2002/08/01 08:33:05 risso Exp \$ */

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@(#) \$Header: /tcpdump/master/libpcap/Win32/Include/ip6_misc.h,v 1.5 2006/01/22 18:02:18 gianluca Exp \$ (LBL)

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@(#)if.h8.1 (Berkeley) 6/10/93

\$FreeBSD: src/sys/net/if.h,v 1.49.2.1 1999/08/29 16:28:15 peter Exp \$

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netdb.h,v 1.4 1995/08/14 04:05:04 hjl Exp

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@(#)paths.h5.15 (Berkeley) 5/29/91

File: /home/sps/ttt/libpcap-1.0.0/./Win32/Include/arpa/nameser.h

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@(#)nameser.h8.1 (Berkeley) 6/2/93

nameser.h,v 1.2 1995/05/06 14:23:54 hjl Exp

File: /home/sps/ttt/libpcap-1.0.0/./pcap/bluetooth.h

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bluetooth data struct

By Paolo Abeni <paolo.abeni@email.it>

@(#) \$Header: /tcpdump/master/libpcap/pcap/bluetooth.h,v 1.1 2007/09/22 02:10:17
guy Exp \$

File: /home/sps/ttt/libpcap-1.0.0/./pcap/bpf.h

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@(#)bpf.h 7.1 (Berkeley) 5/7/91

@(#) \$Header: /tcpdump/master/libpcap/pcap/bpf.h,v 1.19.2.8 2008-09-22 20:16:01 guy
Exp \$ (LBL)

File: /home/sps/ttt/libpcap-1.0.0/./pcap/namedb.h

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```
@(#) $Header: /tcpdump/master/libpcap/pcap/namedb.h,v 1.1 2006/10/04 18:09:22
guy Exp $ (LBL)
```

```
File: /home/sps/ttt/libpcap-1.0.0/./pcap/pcap.h
```

```
Mode: c; tab-width: 8; indent-tabs-mode: 1; c-basic-offset: 8; -*- */
```

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@(#) \$Header: /tcpdump/master/libpcap/pcap/pcap.h,v 1.4.2.11 2008-10-06 15:38:39 gianluca Exp \$ (LBL)

File: /home/sps/ttt/libpcap-1.0.0/./pcap/sll.h

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@(#) \$Header: /tcpdump/master/libpcap/pcap/sll.h,v 1.2.2.1 2008-05-30 01:36:06 guy
Exp \$ (LBL)

File: /home/sps/ttt/libpcap-1.0.0/./pcap/usb.h

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Basic USB data struct

By Paolo Abeni <paolo.abeni@email.it>

@(#) \$Header: /tcpdump/master/libpcap/pcap/usb.h,v 1.6 2007/09/22 02:06:08 guy Exp
\$

File: /home/sps/ttt/libpcap-1.0.0/./pcap/vlan.h

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@(#) \$Header: /tcpdump/master/libpcap/pcap/vlan.h,v 1.1.2.2 2008-08-06 07:45:59 guy
Exp \$

File: /home/sps/ttt/libpcap-1.0.0/./net/bpf_filter.c

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@(#)bpf.c7.5 (Berkeley) 7/15/91

File: /home/sps/ttt/libpcap-1.0.0/./msdos/bin2c.c

File: /home/sps/ttt/libpcap-1.0.0/./msdos/ndis2.c

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David K. Hess, Douglas Lee Schales, David R. Safford

Heavily modified for Metaware HighC + GNU C 2.8+

Gisle Vanem 1998

File: /home/sps/ttt/libpcap-1.0.0/./msdos/ndis2.h

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David K. Hess, Douglas Lee Schales, David R. Safford

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Gisle Vanem 1998

File: /home/sps/ttt/libpcap-1.0.0/./missing/snprintf.c

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\$Id: snprintf.c,v 1.1 2004/04/05 22:43:51 guy Exp \$

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@(#) \$Header: /tcpdump/master/libpcap/lbl/os-aix4.h,v 1.1 2002/06/01 09:37:40 guy
Exp \$

Prototypes missing in AIX 4.x */

File: /home/sps/ttt/libpcap-1.0.0/./lbl/os-hpux11.h

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@(#) \$Header: /tcpdump/master/libpcap/lbl/os-hpux11.h,v 1.1 2002/06/01 09:37:41 guy
Exp \$

Prototypes missing in HP-UX 11.x

File: /home/sps/ttt/libpcap-1.0.0/./lbl/os-osf4.h

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```
@(#) $Header: /tcpdump/master/libpcap/lbl/os-osf4.h,v 1.2 2000/12/22 11:51:33 guy
Exp $ (LBL)
```

Prototypes missing in Digital UNIX 4.x

```
File: /home/sps/ttt/libpcap-1.0.0/./lbl/os-osf5.h
```

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```
@(#) $Header: /tcpdump/master/libpcap/lbl/os-osf5.h,v 1.2 2002/08/02 03:24:15 guy  
Exp $ (LBL)
```

Prototypes missing in Tru64 UNIX 5.x

XXX - "snprintf()" and "vsnprintf()" aren't missing, but you have to #define the right value to get them defined by <stdio.h>.

File: /home/sps/ttt/libpcap-1.0.0/./lbl/os-solaris2.h

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@(#) \$Header: /tcpdump/master/libpcap/lbl/os-solaris2.h,v 1.19 2000/10/11 04:02:52 guy Exp \$ (LBL)

Prototypes missing in SunOS 5 */

File: /home/sps/ttt/libpcap-1.0.0/./lbl/os-sunos4.h

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@(#) \$Header: /tcpdump/master/libpcap/lbl/os-sunos4.h,v 1.32.1.1 1999/10/07 23:46:41 mcr Exp \$ (LBL)

Prototypes missing in SunOS 4 */

File: /home/sps/ttt/libpcap-1.0.0/./lbl/os-ultrix4.h

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@(#) \$Header: /tcpdump/master/libpcap/lbl/os-ultrix4.h,v 1.19.1.1 1999/10/07 23:46:41 mcr Exp \$ (LBL)

Prototypes missing in Ultrix 4 */

File: /home/sps/ttt/libpcap-1.0.0/./bpf/net/bpf_filter.c

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15. **ASSIGNMENT.** Licensee may not assign or otherwise transfer this Agreement and its rights and obligations hereunder, in whole or in part, by operation of law or otherwise, without the written consent of MathWorks. In the case of any permitted assignment or transfer of or under this Agreement, this Agreement or the relevant provisions shall be binding upon, and inure to the benefit of, the successors, executors, heirs, representatives, administrators and assigns of the parties hereto. MathWorks may charge Licensee an administrative fee for any permitted assignment.
16. **LIMITATION OF LIABILITY.** The Programs should not be relied on as the sole basis to solve a problem or implement a design whose incorrect solution or implementation could result in injury to person or property. If a Program is employed in such a manner, it is at the Licensee's own risk and MathWorks and its Licensors explicitly disclaim all liability for such misuse to the extent allowed by law. MathWorks' and MathWorks' Licensors' liability for death or personal injury resulting from negligence or for any other matter in relation to which liability by law cannot be excluded or limited shall not be excluded or limited. Except as aforesaid, (a) any other liability of MathWorks and its Licensors (whether in relation to breach of contract, negligence or otherwise) shall not in total exceed the amount paid to MathWorks under this Agreement in the twelve month period preceding the claim in question, for the Program with respect to which the liability in question arises; and (b) MathWorks and its Licensors shall have no liability for any indirect or consequential loss (whether foreseeable or otherwise and including loss of profits, loss of business, loss of opportunity, and loss of use of any computer hardware or software). Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitation may not apply to Licensee.
17. **LIMITED WARRANTY/LIMITATION OF REMEDIES.** MathWorks warrants that MathWorks, on its own behalf or through its Licensors, has the right to grant the License rights hereunder. MathWorks warrants that the

physical media provided shall be free from defects in material and workmanship for a period of ninety (90) days from delivery, or it will be replaced by MathWorks at no cost to Licensee. MathWorks further warrants, for a period of one (1) year from delivery or for the term of the License, whichever is less, that each copy of each Program will conform in all material respects to the description of such Program's operation in the Documentation. In the event that a Program does not operate as warranted, Licensee's exclusive remedy and MathWorks' sole liability under this warranty shall be the correction or workaround by MathWorks of major defects within a reasonable time. Should such correction or workaround be impractical, MathWorks may, at its option, terminate the relevant License and refund the initial License fee paid to MathWorks for such Program. All requests for warranty assistance should be directed to The MathWorks, Inc., 3 Apple Hill Drive, Natick, MA 01760-2098, U.S.A.

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warranty lasts, so the above limitation may not apply to Licensee. The warranty in Article 17 gives Licensee specific legal rights and Licensee may also have other rights which vary from state to state and country to country. Licensee accepts responsibility for its use of the Programs and the results obtained therefrom.

19. GOVERNING LAW; JURISDICTION. This Agreement shall be interpreted, enforced and construed and the rights of the parties hereunder governed in all respects by the laws of the Commonwealth of Massachusetts, United States of America, without regard to its conflicts of law provisions, and both parties consent to the jurisdiction of the federal and state courts located in said Commonwealth and consent to the service of process, pleadings and notices in connection with any and all actions initiated in such courts. The parties agree that a final judgment in any such action or proceeding shall be conclusive and binding and may be enforced in any other jurisdiction. To the extent any governing law, treaty, or regulation is in conflict with this Agreement, the conflicting terms of this Agreement shall be superseded only to the extent necessary by such law, treaty, or regulation. If any provision of this Agreement shall be otherwise unlawful, void, or otherwise unenforceable, that provision shall be enforced to the maximum extent permissible. In either case, the remainder of this Agreement shall not be affected. The parties agree that the U.N. Convention on Contracts for the International Sale of Goods shall not apply to this Agreement. The parties further agree that the Uniform Computer Information Transactions Act, or any version thereof, adopted by any state, in any form ("UCITA"), shall not apply to this Agreement. To the extent that UCITA is applicable, the parties agree to opt out of the applicability of UCITA pursuant to the Opt-Out provision(s) contained therein.

20. COMPLIANCE AND AUDIT RIGHTS. Licensee agrees to notify MathWorks promptly upon discovery of any failure to comply with one or more Licenses granted under this Agreement, or any failure to comply with any other material term of this Agreement. To confirm Licensee's compliance with the terms and conditions of this Agreement, Licensee

agrees to allow MathWorks to audit Licensee's use of the Programs, and to provide MathWorks access to Licensee's facilities and Computers, and cooperation from Licensee's employees and consultants, as reasonably requested by MathWorks in order to perform such audit, all during normal business hours, and after reasonable prior notice from MathWorks. If an audit discloses that Licensee has failed to comply with one or more Licenses, and such failure to comply could have in part or in whole been avoided by Licensee having paid additional License fees to expand the scope of the License or Licenses, then Licensee shall promptly pay MathWorks such Licensing fees (at MathWorks' then current rates) and, if such unpaid License fees exceed 5% of the License fees paid to MathWorks for the applicable Programs during the applicable period during which such underpayment occurred, then Licensee shall, in addition to paying the unpaid License fees, also reimburse MathWorks the full cost of such audit.

21. LICENSE MANAGEMENT. The Programs contain technology for the prevention of unlicensed use. The Programs require activation to exercise your rights under this Agreement. You may also need to activate if you redesignate the Programs on your License or modify your computer hardware.

Activation associates the use of the Programs with a specific Computer, and in some cases the Licensed User. During activation, data about the Programs and the Computer will be transmitted to MathWorks. This data includes the License information, Computer identification, and location. Some License Options may require the MathWorks Account information and the operating system user name for the Licensed User. A License file will be provided to complete activation.

22. HEADINGS. The inclusion of headings is for convenience of reference only and shall not affect the construction or interpretation of this Agreement.

23. ENTIRE AGREEMENT. This Agreement, and any applicable Addendum thereto including any documents referenced therein are incorporated herein by

reference, and contain the entire understanding of the parties and may not be modified or amended except by written instrument, executed by authorized representatives of MathWorks and Licensee. In the event of any conflict between this Agreement and any purchase order executed by Licensee (whether executed before or after this Agreement), this Agreement shall prevail.

The MathWorks, Inc. Software License Agreement - Installation and Use Addendum

This is an Addendum to The MathWorks, Inc. Software License Agreement (the "Agreement"), and the terms and conditions of this Addendum are incorporated therein. Each capitalized term used herein and not defined herein shall have the meaning ascribed to it in the Agreement.

1. SCOPE. The Installation and Use provisions of this Addendum apply to each Program licensed under the Agreement. The applicable provisions are determined by the particular License Option that Licensee acquired, including those related to the permitted Activation Type associated with the License Option acquired.

2. DEFINITIONS.

2.1. Activation Type. One of the Standalone Named User, Designated Computer, Network Named User, or Network Concurrent User Activation Types available with respect to the License Option acquired.

2.2. License Manager. The Macrovision FLEXnet(R) license management software provided with the Program(s).

2.3. Licensed User. An individual authorized by the Licensee to use the Programs for Licensee's Internal Operations, to the extent permitted by the License Option acquired.

2.4. License Option. The specific rights, restrictions, and obligations under which Licensee may install and use a Program pursuant to the

Agreement, including those related to the permitted Activation Type associated with the License Option acquired.

2.5. Named User. A Licensed User designated and identified by Licensee as the "Named User" for a License to a Program under either the "Standalone Named User" or "Network Named User" Activation Type.

3. INSTALLATION AND USE. Specific rights, obligations, and restrictions apply to each License Option. Licensee's right to install and use the Programs is determined by the License Option acquired, including the permitted Activation Type with respect to such License Option. By accepting the terms and conditions of the Agreement, Licensee also accepts the License Option acquired.

3.1. License Options.

3.1.1. Individual. Except as specifically set forth in Section 3.3 hereof, the Individual License Option permits one Activation Type, either the Standalone Named User Activation Type or the Designated Computer Activation Type.

3.1.2. Network Named User. Except as specifically set forth in Section 3.3 hereof, the Network Named User License Option permits only the Network Named User Activation Type.

3.1.3. Concurrent. Except as specifically set forth in Section 3.3 hereof, the Concurrent License Option permits only the Network Concurrent User Activation Type.

3.2. Activation Types.

3.2.1. Standalone Named User. Program use is restricted to the single, designated Named User. Programs may be installed and operated on one or more individual Computers, provided the Programs are only accessible to, and operated by, the Named User for that License. The physical locations of the Computers used by the

Named User to run the Programs are not limited; the Computers may be located at work, home, in a laboratory, or on a laptop. Licensee may only designate one Licensed User access to or use of the Programs under each Named User License. Licensee may redesignate the Named User for a Program, whether temporarily or not, no more than four (4) times per year. A Named User may not use a Program on more than two (2) Computers simultaneously. In the case of Standalone Named User Licenses licensed as part of a group, Licensee shall be responsible for, and shall assign a central administrator the task of, administering the Licenses and installing the Programs, including new versions of the Programs delivered during any paid Software Maintenance Service term.

3.2.2. Designated Computer. The Programs may only be installed and operated on a single, designated Computer, provided the Computer is not a network server and the Programs are only operated from that Computer's console by only one Licensed User at any given time. Licensee may redesignate the Computer for a Program to a different Computer, whether temporarily or not, no more than four (4) times per year. In the case of Designated Computer Licenses licensed as part of a group, Licensee shall be responsible for, and shall assign a central administrator the task of, administering the Licenses and installing the Programs, including new versions of the Programs delivered during any paid Software Maintenance Service term.

3.2.3. Network Named User. Programs may only be installed in a central location on a single designated network server. Licensee must run the License Manager in its User-Based mode, and edit the Local License Options file to maintain a list of Named Users authorized to access and operate each Program. Licensee may re-edit the list of Named Users in the Local License Options file and may redesignate Named Users for a Program, whether temporarily or not, no more than four (4) times per year, provided the number of Named Users in the file never

exceeds the number licensed per Program. Portions of the Programs may be installed on individual Computers to accelerate startup times, as long as the installations on the individual Computers are controlled by the License Manager on the network server. A Named User may not use a Program on more than two (2) Computers simultaneously.

3.2.4. Network Concurrent User. The Programs may only be installed in a central location on a single designated network server. Licensee must run the License Manager in its Concurrent mode and may have only as many Licensed Users simultaneously operating a Program at any given time as the number of Concurrent keys acquired for that Program. Subject to the foregoing, a Licensed User of the Concurrent License Option may utilize any number of Computers served by a single License Manager provided that, before using a Program on any Computer, the Licensed User checks out a separate Concurrent key from the License Manager for that Computer. Portions of the Programs may be installed on individual Computers to accelerate startup times, as long as the installations on the individual Computers are controlled by the License Manager on the network server. Licensees of the Concurrent License Option are prohibited from providing Program access to users located outside the country in which the License Manager server is installed unless Licensee has contracted for global use. For the purposes of the Concurrent License Option, all servers located in a member country of the North American Free Trade Agreement ("NAFTA") shall be considered located in the same country as those of the other NAFTA members, and all servers located in Iceland, Norway, Switzerland, or any member country of the European Union ("EU") shall be considered located in the same country.

3.3. MATLAB(R) Distributed Computing Server(TM). Licensees of the MATLAB(R) Distributed Computing Server(TM) Program ("MDCS") are permitted to install and make available Programs, other than any Ineligible Program, on one or more Computers ("Computer Cluster")

solely for use through the MDCS, provided that (1) the Programs on the Computer Cluster are controlled by a single License Manager for each MDCS, (2) the number of simultaneous Program sessions does not exceed the number of MDCS workers acquired, (3) access to any Program, whether in the MDCS or otherwise, remains limited to those persons who are Licensed Users of such Programs, and the Parallel Computing Toolbox; and 4) access to any Program, including the MDCS, is not made available (i) to any Third Party without the advance written consent of MathWorks, or (ii) to any user outside the country in which the MDCS' License Manager server is installed, unless the Licensee acquires a separate license from MathWorks. For the purposes of this Section 3.3, all MDCS License Manager servers located in a member country of the North American Free Trade Agreement ("NAFTA") shall be considered located in the same country as those of the other NAFTA members, and all MDCS License Manager servers located in Iceland, Norway, Switzerland, or any member country of the European Union ("EU") shall be considered located in the same country.

4. REMOTE AND SHARED OPERATION.

Subject also to the foregoing:

4.1. Remote Access to the Desktop:

Using the Microsoft(R) Remote Desktop connection feature or similar technologies:

4.1.1. Named Users and Network Named Users may remotely access Programs for which they are licensed.

4.1.2. Network Concurrent Users may remotely access Programs served by the License Manager server for the License under which they are operating.

4.1.3. The Licensee of a Designated Computer Activation Type may

designate one Licensed User to remotely access the Programs licensed on the Designated Computer for operation on that Designated Computer. Licensee may redesignate such Licensed User, whether temporarily or not, no more than four (4) times per year.

4.2. Shared Access to the Desktop:

4.2.1. A Licensed User may use Microsoft(R) Remote Assistance technology, NetMeeting(R) conferencing software, or similar technologies to share the desktop view of a Program session remotely with another individual for assistive purposes only.

THE MATHWORKS, INC. SOFTWARE LICENSE AGREEMENT - Academic Installation and Use Addendum

This is an Addendum to The MathWorks, Inc. Software License Agreement (the "Agreement"), and the terms and conditions of this Addendum are incorporated therein. Each capitalized term used herein and not defined herein shall have the meaning ascribed to it in the Agreement.

1. SCOPE. The provisions of this Academic Installation and Use Addendum apply to each Program licensed under the Agreement at prices offered only to degree-granting educational institutions ("Academic prices") for Academic Internal Operations only, as defined below. Research and development divisions and centers of universities, U.S. government agencies and other not-for-profit organizations do not qualify for Academic prices. This Addendum imposes certain additional obligations and restrictions with respect to the Programs licensed at such Academic prices that are not contained in the Agreement. The applicable provisions are determined by the particular Academic License Option that Licensee acquires for each Program, including those related to the permitted Activation Type associated with the Academic License Option acquired. In the event of a conflict between the provisions of this Addendum and the Agreement, these Addendum provisions shall apply.

2. DEFINITIONS.

2.1. Academic Internal Operations. The installation and use of the Programs by Licensed Users, in accordance with the Academic License Option acquired, for the purpose of (i) in the case of employees (faculty and academic staff), performing software administration, teaching, and noncommercial, academic research in their ordinary course as Licensee's employees; and (ii) in the case of enrolled students, meeting classroom requirements of courses and study offered by the Licensee. Any other use is expressly prohibited.

2.2. Activation Type. One of the Standalone Named User, Designated Computer, or Network Concurrent User Activation Types available with respect to the Academic License Option Acquired.

2.3. License Manager. The Macrovision FLEXnet(R) license management software provided with the Programs.

2.4. Licensed Users. All enrolled students and employees (faculty and academic staff) of the Licensee who are authorized by Licensee to use the Programs for Academic Internal Operations in accordance with the Agreement, as revised from time to time, and to the extent permitted by the Academic License Option acquired. As used herein, "employees" excludes subcontractors and consultants of the Licensee.

2.5. Academic License Option. The specific rights, restrictions, and obligations under which Licensee may install and use a Program pursuant to the Agreement, including those related to the permitted Activation Type associated with the Academic License Option acquired.

2.6. Named User. Licensed User designated and identified by Licensee as the "Named User" for a License to a Program under the "Standalone Named User" Activation Type.

3. INSTALLATION AND USE. Specific rights, obligations, and restrictions apply to each Academic License Option. Licensee's right to install and use the Programs is determined by the Academic License Option acquired, including the permitted Activation Type with respect to such Academic License Option. By accepting the terms and conditions of the Agreement, Licensee also accepts the Academic License Option acquired, and agrees to use the Programs only for Academic Internal Operations.

3.1. Academic License Options.

3.1.1. Individual. Except as specifically set forth in Section 3.3 hereof, the Individual License Option permits one Activation Type, either the Standalone Named User Activation Type or the Designated Computer Activation Type.

3.1.2. Concurrent. Except as specifically set forth in Section 3.3, the Concurrent License Option permits only the Network Concurrent User Activation Type.

3.1.3. Classroom. Except as specifically set forth in Section 3.3, the Classroom License Option permits one Activation Type, either the Network Concurrent User Activation Type or the Designated Computer Activation Type. Notwithstanding the foregoing definition of Academic Internal Operations, Programs licensed under the Classroom License Option are further restricted to use in connection with on-campus computing facilities that are used solely in support of classroom instruction of students. Research use is not permitted.

3.2. Activation Types.

3.2.1. Standalone Named User. Program use is restricted to the single, designated Named User. The Programs may be installed and operated on one or more individual Computers, provided the Programs are only accessible to, and operated by, the Named User for that License. The physical locations of the Computers used

by the Named User to run the Programs are not limited; the Computers may be located at work, home, in a laboratory, or on a laptop. Licensee may only designate one Licensed User access to or use of the Programs under each Named User License. Licensee may redesignate the Named User for a Program, whether temporarily or not, no more than four (4) times per year. A Named User may not use a Program on more than two (2) Computers simultaneously.

3.2.2. Designated Computer. The Programs may only be installed and operated on a single, designated Computer, provided the Computer is not a network server and the Programs are only operated from that Computer's console by only one Licensed User at any given time. Licensee may redesignate the Computer for a Program to a different Computer, whether temporarily or not, no more than four (4) times per year. In the case of Designated Computer Licenses licensed as part of a group, Licensee shall be responsible for, and shall assign a central administrator the task of, administering the Licenses and installing the Programs, including new versions of the Programs delivered during any paid Software Maintenance Service term.

3.2.3. Network Concurrent User. The Programs may only be installed in a central location on a single designated network server. Licensee must run the License Manager in its Concurrent mode and may have only as many Licensed Users simultaneously operating a Program at any given time as the number of Concurrent keys acquired for that Program. Subject to the foregoing, a Licensed User of the Concurrent License Option may utilize any number of Computers served by a single License Manager provided that, before using a Program on any Computer, the Licensed User checks out a separate Concurrent key from the License Manager for that Computer. Portions of the Programs may be installed on university-owned or controlled individual Computers to accelerate startup times, as long as the installations on the individual Computers are controlled by the License Manager on

the network server. Licensees of the Concurrent License Option are prohibited from providing Program access to users located outside the country in which the License Manager server is installed.

3.3. MATLAB(R) Distributed Computing Server(TM). Licensees of the MATLAB(R) Distributed Computing Server(TM) Program ("MDCS") are permitted to install and make available Programs, other than any Ineligible Program, on one or more Computers ("Computer Cluster") solely for use through the MDCS, provided that (1) the Programs on the Computer Cluster are controlled by a single License Manager for each MDCS, (2) the number of simultaneous Program sessions does not exceed the number of workers acquired, (3) access to any Program, whether in the MDCS or otherwise, remains limited to those persons who are Licensed Users of such Programs, and the Parallel Computing Toolbox; and (4) access to any Program, including the MDCS, is not made available (i) to any Third Party without the advance written consent of MathWorks, or (ii) to any user outside the country in which the MDCS License Manager is installed.

4. REMOTE AND SHARED OPERATIONS

Subject also to the foregoing:

4.1. Remote Desktop Access:

Using the Microsoft(R) Remote Desktop connection feature or similar technologies:

4.1.1. Named Users may remotely access Programs for which they are licensed.

4.1.2. Network Concurrent Users may remotely access Concurrent Programs served by the License Manager server for the License under which they are operating.

4.1.3. The Licensee of a Designated Computer Activation Type may designate one Licensed User to remotely access the Programs licensed on the Designated Computer for operation on that Designated Computer. Licensee may redesignate such Licensed User, whether temporarily or not, no more than four (4) times per year.

4.2. Shared Access to the Desktop:

4.2.1. A Licensed User may use Microsoft(R) Remote Assistance technology, NetMeeting(R) conferencing software, or similar technologies to share the desktop view of a Program session remotely with another individual for assistive purposes only.

THE MATHWORKS, INC. SOFTWARE LICENSE AGREEMENT - Student Version Installation and Use Addendum

This is an Addendum to The MathWorks, Inc. Software License Agreement (the "Agreement"), and the terms and conditions of this Addendum are incorporated therein. Each capitalized term used herein and not defined herein shall have the meaning ascribed to it in the Agreement.

1. SCOPE. The provisions of this Student Installation and Use Addendum apply to the MATLAB(R) and Simulink(R) Student Version Programs and to any other Programs licensed under the Agreement at prices offered to students enrolled in degree-granting educational institutions ("Student prices"). This Addendum imposes certain additional obligations and restrictions with respect to the Programs licensed at such Student prices that are not contained in the Agreement. In the event of a conflict between the provisions of this Addendum and the Agreement, these Addendum provisions shall apply. The license provided for in this Addendum is referred to as a "Student License".

2. RETURNS AND REFUNDS. Returns and refunds of Student License purchases are subject to the refund policies at the time and point of purchase.

3. **REGISTRATION AND ACTIVATION.** The Programs contain technology for the prevention of unlicensed or illegal use of the Programs. Licensee agrees to the use and application of such technology in the Programs (a) to limit the installation and use of the Programs by Licensee to a finite number of Computers, and (b) to require Licensee's registration of the Student License and activation of the Programs in advance of the use of the Programs (other than for temporary use) as further described in this Addendum and in the Documentation for the Programs.

4. **ELIGIBILITY.** Licensee further agrees to the following eligibility restrictions of the Student License: the Licensee must be a student enrolled in a degree-granting educational institution or participating in a continuing education program at a degree-granting educational institution.

5. **LICENSE TERM.** The Student License may be acquired (as available) in one of two, separate term lengths, either the Standard Student License Term (for the standard Student Version License) or the One-Year Student License Term (for the Student Version One-Year License). Licensees of the Standard Student License Term agree that their Student License expires automatically immediately after the duration of Licensee's enrollment in a degree-granting institution or participation in a continuing education program of a degree-granting institution. Licensees of the One-Year Student License Term agree that their Student License expires automatically after one year, as measured from the date the Student License is first activated.

6. **INSTALLATION AND USE.** The Student License permits the Licensee to use the Programs at any time during the Term in accordance with the Agreement on one Computer that Licensee owns or leases provided (i) the Programs are only accessible to, and operated by, Licensee, and (ii) Licensee has provided machine-specific identification for such Computer through the registration and activation process. Network installation is prohibited.

7. SOFTWARE MAINTENANCE SERVICE. Software Maintenance Service is not available for a Student License.

8. ASSIGNMENT. Student Licenses are nontransferable.

9. DISTRIBUTION OF STUDENT VERSION LICENSES BY DEGREE-GRANTING EDUCATIONAL

INSTITUTIONS. A degree-granting educational institution (the "Institution") may place orders for Student Licenses and add-on Programs for its enrolled students only for installation and use in accordance with this Addendum. It is expressly understood and agreed the Institution shall take appropriate action to ensure (i) the Agreement including this Addendum is delivered to each student Licensee intact with the distribution of media; (ii) media seal notices provided by MathWorks regarding the licensing of the Programs are delivered intact to the student Licensees in receipt of media; and (iii) each student Licensee is instructed not to copy the Programs or use them for commercial purposes, and is required by the Institution to de-install the Programs at the expiration of the Term for such student Licensee.

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This is an Addendum to The MathWorks, Inc. Software License Agreement (the "Agreement"), and the terms and conditions of this Addendum are incorporated therein. Each capitalized term used herein and not defined herein shall have the meaning ascribed to it in the Agreement.

1. PURPOSE. The MathWorks, Inc. Software License Agreement (the "Agreement") contains restrictions prohibiting Licensee from modifying, distributing, or providing access to the Programs or any Program Components (as defined below), except as expressly provided in this Addendum. If the Programs licensed by Licensee under the Agreement contain Source Code or Object Code Program Components, then this Addendum sets forth the Licensee's rights with respect to creating Applications and Derivative Forms and distributing Applications,

Derivative Forms, and Deployment Programs, as well as certain additional obligations related thereto.

MathWorks or its Licensors retain all right, title, and interest in its Programs, Program Components, and Derivative Forms of its Programs.

2. **USER CREATED FILES.** This Addendum does not apply to M-files, MDL-files, MEX-files, MAT-files, VHDL-files, Verilog-files, FIG-files and P-files that are created by Licensee and that do not include any code obtained from M-files, MAT-files, P-code, MDL-files, C/C++ files, VHDL-files, Verilog-files, TLC-files, or other Source Code files supplied with the Programs ("User Files"). Licensee may distribute, sublicense, and resell without restriction, User Files.

3. **NONCOMPETITION.** Licensee agrees not to use the Programs, Derivative Forms, Generated Forms, or Program Components to make or distribute its own or a Third Party's Application, a principal purpose of which, as reasonably determined by MathWorks, is to perform the same or similar functions as Programs licensed by MathWorks or which replaces any component of the Programs. Licensee shall not otherwise use the Programs to compete with the products or businesses of MathWorks, including by distributing Libraries, or any form of an entire Program or a substantial portion of a Program.

4. **DEFINITIONS.**

4.1. **Application.** A software file that Licensee has created by either (a) using a MathWorks Program to compile or translate Licensee created Source Code or (b) incorporating or linking any part of any Source Code, library file, or other Program Component provided with the Program. An Application must contain original code developed by Licensee and must provide substantial functionality not contained in, or provided by, the Program Components that are incorporated into such Application. If a software file created by a Licensee incorporates Program Components, but does not meet the requirements of the previous sentence, then it is a Derivative Form (as defined

below). An Application may contain Linked Object Code which, if such Object Code was not Linked to the Application and was a standalone file, would otherwise have been deemed a Derivative Form.

4.2. Application License. A license granted by Licensee to its end-users for the installation and use of Licensee's Application.

4.3. Generated Forms. The output of the MATLAB(R) Compiler(TM), Real-Time Workshop(R), Stateflow(R) Coder(TM), Simulink(R) HDL Coder(TM), Embedded Coders, and other MathWorks' code generation Programs in the form of Source Code, as well as such Source Code converted to Object Code or Linked forms.

4.4. Derivative Forms. A software file that Licensee has derived from one or more Program Components (including without limitation by incorporating, translating, or modifying, in whole or in part, any Program Component), and which, if modified or copied without MathWorks' authorization, would constitute a copyright infringement or breach of the Agreement. A software file created by Licensee which qualifies as an "Application" under the above definition shall not be deemed a Derivative Form.

4.5. Linked. An executable or loadable file created by a compiler or linker program combining Object Code module files.

4.6. MAT-file. The file format in which MATLAB stores data.

4.7. MCR Libraries. MATLAB Compiler Runtime support libraries and other files for deployment of Applications created with the MATLAB Compiler.

4.8. Object Code. The code created by a system compiler from source code; also called "machine-readable code". Object Code can be Linked with an appropriate linker to resolve address references and may be combined with other Object Code for targeted execution on a

specific processor. Object Code includes "Object Code libraries" and "shared libraries," which are groupings of Object Code for specific purposes.

4.9. Program Component. Any portion of, or file provided with, a Program.

4.10. Source Code. Human-readable program code written in a higher-level language such as C, C++, Java(TM), MATLAB(R), MDL, VHDL(R), Verilog(R), or Fortran, which must be translated or compiled into machine-readable language before it can be executed by a Computer. Source Code also includes header files and other human-readable files necessary for a Program to be compiled in the higher-level language.

4.11. Standalone Application. An Application created using programming languages and tools other than the Programs, which executes outside of the Programs.

4.12. Deployment Program. Any MathWorks Program that either (a) generates Object Code or Source Code in response to user input, or (b) contains executable functions or data accessed by an Application (such as a DLL file).

5. DEPLOYMENT PROGRAMS. Licensed Users of MathWorks' Deployment Programs may automatically generate code from M-files, Simulink(R)/Stateflow(R) diagrams, and other representations, into Generated Forms. Furthermore, Licensee may copy and deploy these Generated Forms for use outside of the Programs.

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libmangle and gendef
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getopt, getopt_long, and getopt_long_only
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gdtoa: Converting between IEEE floating point numbers and ASCII
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MNG Library (libmng)

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Parts of this software have been adapted from the libpng package.

Although this library supports all features from the PNG specification (as MNG descends from it) it does not require the libpng package.

It does require the zlib library and optionally the IJG jpeg library, and/or the "little-cms" library by Marti Maria (depending on the inclusion of support for JNG and Full-Color-Management respectively).

This library's function is primarily to read and display MNG animations. It is not meant as a full-featured image-editing component! It does however offer creation and editing functionality at the chunk level.

(future modifications may include some more support for creation and or editing)

Opencores OR1200

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mkdepend : generate dependency information from C/C++ files

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Modified heavily by David Gravereaux <davygrvy@pobox.com> about 9/17/2006.
Original can be found @
<http://web.archive.org/web/20070616205924/http://www.doc.ic.ac.uk/~np2/software/mkdepend.html>

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- 6) ./generic/regguts.h
- 7) ./generic/regfronts.c
- 8) ./generic/regfree.c
- 9) ./generic/regc_lex.c
- 10) ./generic/regcustom.h
- 11) ./generic/rege_dfa.c
- 12) ./generic/regcomp.c

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- 2) ./generic/regc_color.c – “Note that there are some incestuous relationships between this code and NFA arc maintenance, which perhaps ought to be cleaned up sometime.”
- 3) ./generic/regc_cvec.c – “Notes: Only (selected) functions in `_this_` file should treat `chr*` as non-constant.”
- 4) ./generic/regc_nfa.c – “One or two things that technically ought to be in here are actually in `color.c`, thanks to some incestuous relationships in the color chains.”
- 6) ./generic/regguts.h – “Environmental customization. It should not (I hope) be necessary to alter the file you are now reading -- `regcustom.h` should handle it all, given care here and elsewhere.”
- 8) ./generic/regfree.c – “You might think that this could be incorporated into `regcomp.c`, and that would be a reasonable idea... except that this is a generic function (with a generic name), applicable to all compiled Res regardless of the size of their characters, whereas the stuff in `regcomp.c` gets compiled once per character size.”
- 9) ./generic/regc_lex.c – “scanning macros (know about v)”
- 10) ./generic/regcustom.h – “Headers if any.”

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A Bison parser, made by GNU Bison 2.3.

Skeleton implementation for Bison's Yacc-like parsers in C

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C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser.

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Identify Bison output.

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RCS: @(#) \$Id: tclLoadAix.c,v 1.6 2007/04/16 13:36:36 dkf Exp \$

Note: this file has been altered from the original in a few ways in order to work properly with Tcl.

@(#)dlfcn.c1.7 revision of 95/08/14 19:08:38

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RCS: @(#) \$Id: dlfcn.h,v 1.2 1998/09/14 18:39:44 stanton Exp \$

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Win32pthreads

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that

uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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 - 1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

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You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

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Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software

sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work

which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1

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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to

distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a

work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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