Installing Mentor Graphics Software Online Help

Software Version v3.3

January 2010

2003-2010 © Mentor Graphics Corporation
All rights reserved.

This document contains information that is proprietary to Mentor Graphics Corporation. The original recipient of this document may duplicate this document in whole or in part for internal business purposes only, provided that this entire notice appears in all copies. In duplicating any part of this document, the recipient agrees to make every reasonable effort to prevent the unauthorized use and distribution of the proprietary information.

This document is for information and instruction purposes. Mentor Graphics reserves the right to make changes in specifications and other information contained in this publication without prior notice, and the reader should, in all cases, consult Mentor Graphics to determine whether any changes have been made.

The terms and conditions governing the sale and licensing of Mentor Graphics products are set forth in written agreements between Mentor Graphics and its customers. No representation or other affirmation of fact contained in this publication shall be deemed to be a warranty or give rise to any liability of Mentor Graphics whatsoever.

MENTOR GRAPHICS MAKES NO WARRANTY OF ANY KIND WITH REGARD TO THIS MATERIAL INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

MENTOR GRAPHICS SHALL NOT BE LIABLE FOR ANY INCIDENTAL, INDIRECT, SPECIAL, OR CONSEQUENTIAL DAMAGES WHATSOEVER (INCLUDING BUT NOT LIMITED TO LOST PROFITS) ARISING OUT OF OR RELATED TO THIS PUBLICATION OR THE INFORMATION CONTAINED IN IT, EVEN IF MENTOR GRAPHICS CORPORATION HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

RESTRICTED RIGHTS LEGEND 03/97

U.S. Government Restricted Rights. The SOFTWARE and documentation have been developed entirely at private expense and are commercial computer software provided with restricted rights. Use, duplication or disclosure by the U.S. Government or a U.S. Government subcontractor is subject to the restrictions set forth in the license agreement provided with the software pursuant to DFARS 227.7202-3(a) or as set forth in subparagraph (c)(1) and (2) of the Commercial Computer Software - Restricted Rights clause at FAR 52.227-19, as applicable.

Contractor/manufacturer is:
Mentor Graphics Corporation
8005 S.W. Boeckman Road, Wilsonville, Oregon 97070-7777.
Telephone: 503.685.7000
Toll-Free Telephone: 800.592.2210
Website: www.mentor.com
SupportNet: www.mentor.com/supportnet
Contact Your Technical Writer: www.mentor.com/supportnet/documentation/reply_form.cfm

TRADEMARKS: The trademarks, logos and service marks ("Marks") used herein are the property of Mentor Graphics Corporation or other third parties. No one is permitted to use these Marks without the prior written consent of Mentor Graphics or the respective third-party owner. The use herein of a third-party Mark is not an attempt to indicate Mentor Graphics as a source of a product, but is intended to indicate a product from, or associated with, a particular third party. A current list of Mentor Graphics' trademarks may be viewed at: www.mentor.com/terms_conditions/trademarks.cfm.

Table of Contents

Chapter 1
Installing Mentor Graphics Software 1-1

Using the Mentor Graphics Install Home Window 1-1
Viewing the License Agreement 1-2
Specifying the Installation Source and Target 1-2
Selecting Releases to Install 1-4
Selecting Products to Install 1-4
Confirming Product Selections 1-5
Installing Products 1-6
Verifying Installation 1-6
Verifying Product Selection 1-6
Verifying Installation Results 1-7
Removing Installed Products 1-7
Selecting Products for Removal 1-8
Confirming Products for Removal 1-8
Viewing Progress of Product Removal 1-9
Setting Target List 1-9
Performing a New or Update Installation 1-10
Ordering Software Licenses 1-10
Mounting the CD-ROM 1-11
Creating a Batch Script 1-12
Performing a Batch Installation 1-14
Mentor Install Program and Java 1-17
Setting Application Options 1-17
Determining System Requirements 1-18
Understanding the Install Program Setup 1-18
Selecting a Location for the Mentor Graphics Product Tree 1-19
Determining What Products Are Already Installed 1-19
Unmounting the CD-ROM on UNIX/Linux 1-19
Installing and Configuring Licensing 1-20
Creating an Input File 1-20
Specifying the Installation Target 1-21
Performing a Batch Verification 1-22
Performing a Batch Remove 1-22
Using the Mentor Graphics Batch Tool 1-23
Repository Setup Overview for a Batch Install 1-23
Specifying the Mentor Graphics Installer for a Batch Install 1-24
Specifying the Source for a Batch Install 1-25
Client Batch Script Overview 1-26
Specifying the Default Target Location for Batch Install 1-26
Selecting Products for a Batch Install 1-27
Selecting Your License Agreement Viewing Preferences for a Batch Install 1-28

Specifying Optional Script Behavior for a Batch Install 1-29
Confirming and Saving the Batch Script 1-29
Viewing the Licensing Agreement in the Batch Tool 1-30
Batch Tool: Advanced 1-30
Performing an Install from the Command Line 1-30
Using the Source Browser 1-32
Selecting Releases for a Batch Install 1-32
Selecting from Install Options 1-33

Glossary

Index

End-User License Agreement

End-User License Agreement

Chapter 1
Installing Mentor Graphics Software

Welcome to the Mentor Install Program; an easy to use wizard interface for installing Mentor Graphics software.

Before you begin the software installation, you should:

- Plan your software configuration. Refer to either the web-based download instructions on SupportNet (www.supportnet.mentor.com), or request software on CD-ROM and view the accompanying CD booklet for installation instructions.
- Order software licenses by contacting your local Mentor Graphics sales office. For other licensing related information, refer to the *Licensing Mentor Graphics Software* manual available with all installation media.

Using the Mentor Graphics Install Home Window

From the Mentor Graphics Install Home window, you can install, update and verify Mentor Graphics products from various media (web-based download or CD-ROM).

Click **Install Products** and the install wizard will guide you through the install process.

If you need help, you can use the following:

- Help button on each window,
- Help pulldown menu, and
- Tool tips (glide the mouse cursor over a button, field, or menu and a brief description of their function appears).

Note: Outside of the Mentor Install Program, command line help is available. Use the **-help** option with any of the install commands. For example:

On UNIX/Linux, you can use either of the following:

install.<*vco*> -help

mgc_install -help

On Windows, you can use either of the following:

setup.exe -help

install.exe -help

Viewing the License Agreement

Use this window to view the Mentor Graphics Licensing Agreement. Carefully read the agreement and accept it before installing Mentor Graphics software.

Note that you may be presented with multiple EULA's to read/accept depending on the products you have selected to install.

Click **Save** to save the Licensing Agreement to a file.

Click **Print** to print a hardcopy of the Licensing Agreement.

Click **Agree** to accept the Licensing Agreement and continue with the Mentor Graphics software installation.

Disagree cancels the installation and returns you to the Product Selection window.

Cancel cancels the installation. A popup window will appear, asking you to confirm the Cancel. Selecting **Yes** cancels the installation and returns you to the window where you began the installation. Selecting **No** removes the popup window and stays on the License Agreement window.

Specifying the Installation Source and Target

Use the Source and Target window to specify the pathnames to the source and target locations for your installation.

1. In the **Select a source** field, do one of the following:

Note: The Select a source field defaults to the path where you invoked the Install Program or where you last installed from. The display area provides release information on the source shown in the field.

Note: If installing from multiple CD's and running Solaris 10 with vold, first copy install.ss5 to an alternate location and execute from there.

- If the field is incorrect or blank (may occur the first time the Mentor Install Program is used) type the path to the location of the source you want to install. If your source is on a network, enter the full pathname to the source.
- If you need to search for the source location, select **Search** and using the Source Browser screen, navigate to a CD or download location. Click in the upper-left panel to browse folders on your file system. Click **Find** to start a search for sources inside

the folder highlighted in the upper-left panel. Valid sources are displayed with a golden folder. Highlight the source in the upper-right panel (details of the highlighted source are displayed in the bottom panel of the Source Browser) and click **Select** to select the source location and return to the Source and Target screen. For more information on the Source Browser, see the **Using the Source Browser** help topic.

After a successful installation, the field will default to the last used source location. The dropdown list displays the collection of all previously used sources.

The proper source format for installing products from one of the above is any of the following:

- A directory containing the subdirectory _msidata. The _msidata subdirectory is read to determine Release contents.
- A file with an extension of .mis (for example, ReleaseV4S23.mis).
- A source bundled as a Windows executable file with an extension of .exe.
- A UNIX/Linux executable file with an extension of .<*vco*>, where vco equals a three-character platform identification of the platform you are installing to such as ss5 for Solaris SPARC. For example: ReleaseV4S23.ss5

2. In the **Select a target location** field, you may type the path to the location where you want to install (such as the MGC tree: /opt/mgc_tree), select the target location from the dropdown list, or browse for the target location.

   Note: This field may be blank the first time the Mentor Install Program is used. After a successful installation, the field will default to the last used target location.

   The dropdown list shows the previous targets used. If your target Mentor Graphics tree is on a remote system, enter the full pathname to that system, ending with the directory where the Mentor Graphics software will reside. If the directory does not currently exist, Install creates the directory before loading the software to that location.

   Note: You can add or remove targets to this dropdown list by using the Set Target List option under the Tools menu. (**Tools > Set Target List**).

   For information on selecting locations for product trees and how to plan for your software configuration, see the product's web download instructions on SupportNet or in the CD Booklet available with the installation media.

3. Click **Next** to continue with the installation. **Back** takes you to the previous screen. **Cancel** cancels the installation. A popup window will appear, asking you to confirm the Cancel. Selecting **Yes** cancels the installation and returns you to the window where you began the installation. Selecting **No** removes the popup window and stays on the Source and Target window.

Selecting Releases to Install

Note: Typically there is only one release on the installation media. The Releases window only displays when there is more than one release on the installation media.

Use the Releases window to select the release(s) to install.

1. From the list on the left window pane, select the release(s) to install. The rightmost pane displays information on the release that is currently highlighted.

   Note: When a Release is selected in the left window pane, the rightmost pane lists the products available in the selected release for all platforms.

2. Click **Next** to continue with the installation. Click **Back** to return to the previous window; your release selections are preserved at this point. Click **Cancel** to cancel the installation. A popup window will appear, asking you to confirm the Cancel. Selecting **Yes** cancels the installation and returns you to the window where you began the installation. Selecting **No** removes the popup window and stays on the Release window.

Selecting Products to Install

Use the Product Selection window to select the platform and product(s) to install.

Note: Based on the release, some products may appear pre-selected. The Mentor Install Program automatically selects products based upon licenses available in your environment and products you have previously installed. The Mentor Install Program relies on Mentor licensing to determine what products you are licensed for so Mentor licensing needs to be installed prior to product installation. If your license file is not in the default location, you must set either the MGLS_LICENSE_FILE or LM_LICENSE_FILE environment variables. If you intend to install products without having the Mentor Install Program check for licenses, you can disable the **Auto-Select products with licenses** feature on the Applications Options window. Invoke from the **Tools > Application Options** menu.

From the Product Selection window, you can view information about each of the products available for installation, available disk space, and how much disk space is required to install selected products. Additionally, the window lists products already installed on your machine that match products in the source you are installing from.

Note: Software version numbers may be the same or different.

1. Verify the platform you are installing to. By default, this field will show the platform you are running the Mentor Install Program on. However, if you are installing to a different platform, select that platform from the dropdown list. Based on the platform selection, this window will only show products available for installation from the source location for that same platform.

Note: Using Install options, it is possible to install documentation to an alternate location from the software. If you specified an alternate location for documentation or documentation for a specified release already exists, the key to the right of the platform selection field indicates where the documentation and software exist. Likewise, in the Product Selection pane, Product Target and Documentation Target are shown.

2. From the list in the left window pane, select the product(s) to install. The following information is listed for each product:

   - **Name**: This column lists the products available for install from the release(s) previously selected and for the platform selected. Selecting a product results in the rightmost pane filling with information on that product.
   - **Licenses**: The key icon in this field indicates which product licenses were found (blue key) and which licenses are missing (broken red key). Clicking on the **Key** icon scrolls the rightmost pane to the license information for that product.
   - **Target**: The target icon in this field indicates that a version of the product already exists in the specified install target location. Clicking on the **Target** icon scrolls the rightmost pane to the information about what version is currently installed at the target. The legend to the right of the platform selection field indicates where the software resides.
   - **Docs:** The book with target icon in this field indicates that documentation exists. The legend to the right of the platform selection field indicates where the documentation resides.
   - **Space required**: This field dynamically updates to list the total space required for software and (if applicable) documentation for each product selected. A negative number would be shown if the footprint of a new product release is smaller than a previously installed version of the same product.
   - **Space available**: This field displays the total disk space available at the target install location.

3. Click **Next** to continue the installation. Click **Back** to return to the previous window. Click **Cancel** to cancel the installation process. A popup window will appear, asking you to confirm the Cancel. Selecting **Yes** cancels the installation and returns you to the window where you began the installation process. Selecting **No** removes the popup window and stays on the Product Selection window.

Confirming Product Selections

Use the Confirm Selections window to review and confirm the installation target location and the release(s) and product(s) you have chosen to install.

Click **Install** to continue the installation of the listed products.

Click **Back** to make changes to your product selections and to return to the previous window.

Click **Cancel** to cancel the installation process. A popup window will appear asking you to confirm the Cancel. Selecting **Yes** cancels the installation and returns you to the window where you began the installation process. Selecting **No** removes the popup window and stays on the Confirm Selections window.

Installing Products

The Installing Products window indicates the progress of the installation. The status bar displays the percentage of the installation complete for the following:

- Pre-install scripts
- Product installation
- Post install scripts

Click **Cancel** to cancel the installation process. Cancel pauses the installation. A popup window will appear asking you to confirm the Cancel. Selecting **Yes** results in an incomplete and unstable install and returns you to the window where you began the installation process. Selecting **No** continues the installation process.

When Installation Complete appears on the window, click **Done** to return to the window where you began the installation process.

Verifying Installation

To ensure that products have installed correctly, click **Verify Installation** on the Mentor Graphics Install Home window or select **Tools > Verify Installation**. The Verify Installation tool allows you to select any or all products to verify or you can verify installation by target location. The tool then runs a checksum and size verification on all products selected and displays the results.

Verifying Product Selection

To ensure that products have installed correctly, click **Verify Installation** on the Mentor Graphics Install Home window or select **Tools > Verify Installation**. Both of these actions will display the Product Selection window.

Use the Product Selection window to select products for verifying. The verification process runs a checksum at the target location, verifies size of directory and files within, and checks that all product files, directories, and links are present at the target location.

1. Select products to verify by choosing between:

- **Sort by Target** - Choose this sort option to list all targets you have installed to with the Mentor Install Program.

  Note: You can select individual target directories, multiple directories, or use the **Select All** button to select all directories listed for verification.

- **Sort by Product** - Choose this sort option to list products installed with the Mentor Install Program.

  Note: You can select individual products, multiple products, or use the **Select All** button to select all products listed for verification.

2. Click **Verify** to proceed to the Results window that reports the results of the verification. Click **Cancel** to cancel the verification process.

Verifying Installation Results

To ensure that products have installed correctly, click **Verify Installation** on the Mentor Graphics Install Home window or select **Tools > Verify Installation**. Both of these actions will display the Product Selection window. After you have selected products to verify, click **Verify** to proceed to the Results window.

Use the Results window to view the results of the verification process and save installation verification results.

Note: On a lengthy verification log, a summary of any errors found appears at the bottom of the log. You can use the scroll bar to scan through the entire log.

Tip: If errors occur during verification, re-install the products again to rule out any system glitches that may have disrupted the product installation. Should that not solve the error(s), contact Customer Support.

Click **Cancel** to cancel the verification process. Cancel pauses the verification process. A popup window will appear asking you to confirm the Cancel. Selecting **Yes** results in an incomplete verification and returns you to the window where you began the verification process. Selecting **No** continues the verification process.

Click **Save** to save the results of the verification. A dialog box will appear where you can specify a file name and directory to save the results to. Saving to a file is useful when the verification log is lengthy and you want to review it separately from the Mentor Install Program.

Click **Done** on the Results window to return to the window where you began the verification process.

Removing Installed Products

You can remove any or all products installed with the Mentor Install Program.

1. Select **Products > Remove Products**.
2. Select from
   - **Sort by Target** — Choose this sort option to list all targets you have installed to using the Mentor Install Program.
   - **Sort by Product —** Choose this sort option to list products installed using the Mentor Install Program.
3. Select individual, multiple, or Select All products to be removed.
4. Click **Next** to proceed to the Confirm Removal Selection window which lists the results of your selection of products for removal.
5. Click **Remove** on the Confirm Removal Selection window to confirm and remove the products selected.
6. Click **Done** to return to the window where you began the removal process.

Selecting Products for Removal

Use the Product Removal Selection window to select individual, multiple, or all products to be removed. You can only remove products previously installed with the Mentor Install Program.

1. Select products to remove by choosing between:
   - **Sort by Target** — Choose this sort option to list all targets you have installed to using the Mentor Install Program.

     Note: You can select individual target directories, multiple directories, or use the **Select All** button to select all directories listed for product file removal.
   - **Sort by Product** — Choose this sort option to list products installed using the Mentor Install Program.

     Note: You can select individual products, multiple products, or use the **Select All** button to select all products listed for removal.
2. Click **Next** to proceed to the Confirm Removal Selection window which lists the results of your selection of products for removal. Click **Cancel** to cancel the removal process. A popup window will appear asking you to confirm the Cancel. Selecting **Yes** cancels the product removal and returns you to the window where you began the removal process. Selecting **No** removes the popup window and stays on the Product Removal Selection window.

Confirming Products for Removal

Use the Confirm Removal Selection window to verify the product(s) to be removed and specify if the Mentor Install Program should discard user-modified files. The default is for the user-

modified files to be kept. Note that accepting the default here may cause the product removal process to take longer.

Click **Remove** to confirm and begin removal of the products selected.

Click **Back** to return to the Product Removal Selection window where you can make selection changes.

Click **Cancel** to cancel the removal process. A popup window will appear asking if you are sure you want to Cancel the removal. Selecting **Yes** cancels the removal and returns you to the window where you began the removal process. Selecting **No** removes the popup window and stays on the Confirm Removal Selection window.

Viewing Progress of Product Removal

The Removing Products window indicates the progress of the removal of products. The status bar displays the percentage of the product removal completed for the following:

- Pre-uninstall scripts
- Product removal

Click **Cancel** should you need to stop the removal process once started. Cancel pauses the removal process and asks you to confirm the removal cancellation. Selecting **Yes** results in an incomplete and unstable removal and returns you to the window where you began the removal process. Selecting **No** removes the popup window and resumes the removal of products.

When Removal Complete appears on the window, click **Done** to return to the window where you began the removal process.

Setting Target List

You can add or remove target locations to the list of targets that are recognized by the Mentor Install Program. You would add a target location if there was a previously installed target currently not visible to the Mentor Install Program. You would remove a target location if you no longer wanted the Mentor Install Program to use the target location.

To add a target:

1. Select **Tools > Set Target List** from the Mentor Graphics Install main window. The Set Target List window appears.
2. Select **Add**. The Select Target window appears.
3. Navigate to the target directory you want to add and select it. **Note**: Use Ctrl + A to select all targets; use Ctrl or Shift + selection to select multiple targets.

4. Select **Select Target**.
5. Verify that the new target appears on the Set Target List window and select **Done**.

To remove a target:

1. Select **Tools > Set Target List** from the Mentor Graphics Install main window. The Set Target List window appears.
2. Locate and select the target you want to remove. **Note**: Use Ctrl + A to select all targets; use Ctrl or Shift + selection to select multiple targets.
3. Select **Remove**.
4. Select **Done**.

Performing a New or Update Installation

Use the following steps when performing a new or update installation of Mentor Graphics software:

1. Click **Install Products** on the Mentor Graphics Install Home window.
2. Read the Mentor Graphics Licensing Agreement and click **Agree** to accept.
3. Using the Source and Target window, select the source and target for your installation and click **Next**.

Note: If installing from multiple CD's and running Solaris 10 with vold, first copy install.ss5 to an alternate location and execute from there.

Note: For an update installation, the target needs to be the location you have already installed Mentor Graphics product trees to.

4. Using the Releases window, select the releases to install and click **Next**.

Note: The Releases window only displays when there is more than one release on the installation media. For installs containing only one release, the Mentor Install Program automatically selects that release and by-passes the Releases window, bringing up the Product Selection window.

5. Using the Product Selection window, select the platform you are installing to, select the products to install, and click **Next**. (Products to update may appear auto selected.)
6. Using the Confirm Selections window, confirm the product selections and click **Install**.

Ordering Software Licenses

Before installing Mentor Graphics software, you must order your software licenses.

New customers should order new licenses; existing customers can download a copy of your current licenses.

- If you are ordering new licenses:

  New users must order software licenses prior to using Mentor Graphics software. To order licenses, contact your local Mentor Graphics sales office. The sales office can provide you with information on any licenses your company purchased and any current license server configurations you may have. When purchasing new licenses, you need to provide the sales staff with:

  - Any new license server configuration information
  - The hostIDs of client and license server computers for node-locked licenses
  - The hostID of the license server computers for all floating licenses.

- If you want to download a copy of your current licenses:

  Existing customers can download a copy of their current licenses or view Licensing reports at the Customer Support website:

  http://supportnet.mentor.com/myaccount/index.dfm?fa=user.licenses

Note: The Customer Support website requires a login and password. To register and obtain a password, go to `http://supportnet.mentor.com/user/register.dfm`
If you have difficulties, email csd_registration@mentor.com.
Use `http://supportnet.mentor.com/user/forgot_password.cfm` for assistance if you are registered but have forgotten your password.

Mounting the CD-ROM

To mount the Mentor Graphics product CD-ROM:

1. Insert the CD into the CD-ROM drive.

   Note: If installing from multiple CD's and running Solaris 10 with vold, first copy install.ss5 to an alternate location and execute from there.

2. If necessary, create a mount point (directory) for your CD-ROM device. At the system prompt,

   For UNIX:

   mkdir /cdrom

   For Linux:

   mkdir -p /mnt/cdrom

3. Mount the CD-ROM. The following table shows command-line examples for the supported operating systems. Substitute the SCSI address for the value of "x".

Table 1-1. Mounting the CD-ROM

Operating System	Command
AIX	**/usr/sbin/mount -rv cdrfs /dev/cdx /cdrom**
Linux	**mount -t iso9660 /dev/cdrom /mnt/cdrom**
Solaris, *not* running vold	**/sbin/mount -rF hsfs /dev/dsk/c0txd0s2 /cdrom**
Solaris, running vold	*Note*: Solaris automatically mounts the CD-ROM at **/cdrom/cdrom0** if it is running the vold daemon

Creating a Batch Script

The Mentor Install Program provides a Batch Tool for batch installation. A batch installation is where you define a series of steps to be performed and then have the steps executed automatically.

The Batch Tool allows Administrators to use the Mentor Install Program to create an executable batch script that various users can run on their machines and have a common installation. This batch script is useful to Administrators who want to automate installation to multiple, similarly configured machines.

Running a batch installation:

- Provides a non-interactive installation of Mentor Graphics products.
- Installs files into a new target location or installs patches or updates to an existing tree.

Use the Batch Tool to create a batch script. There are two ways to create the batch script:

- Wizard — A step-by-step guide to creating an executable batch script.
- Advanced — An advanced editor that allows you to load or create an executable batch script. (Not available in this release.)

Before you begin to create a batch script, create and populate a repository

You need to identify a location, or *repository*, where the installation source and the Mentor Install Program can be centrally located. Ideally, the repository should be accessible by all of the machines that will ultimately be executing the batch installations. Copy the CD or download the release(s) to this repository.

- If the installation source is on one or more CDs, all CDs should be copied to the same repository. Directories with the same name should be merged at the repository (and the original name/structure should be retained).
- If the installation source was downloaded, extract or unzip the download to the repository. The idea is to collocate all the files in the repository.

The Mentor Install Program needs to be copied to the repository (assuming it was not automatically delivered with the source or the source is a Mentor Install Bundle (MIB)). The Mentor Install Program is two files on Windows (**setup.exe** and **_cabmsi.exe**) and one file for UNIX/Linux platforms (**install.<***vco***>** where <*vco*> is a platform suffix of three characters that is used for platform identification). When the batch script is executed, the Mentor Install Program is installed on each of the machines.

The following steps use the Batch Tool Wizard to create the batch script:

1. Click **Tools > Batch Tool** on the Mentor Graphics Install Home window to display the Welcome to the Batch Tool screen.
2. Select **Wizard** to begin the step-by-step process of creating an executable batch script.
3. Read the Repository Setup Overview and click **Next**.
4. Using the Mentor Graphics Installer window, specify the installer executable located at the repository location and click **Next**.
5. Using the Source Location window, specify the source location and click **Next**. You can use the Source Browser to find the path to the source by clicking **Search...**
6. Read the Client Batch Script Overview and click **Next**.
7. Using the Default Target Location window, specify the default target location where products are installed on the client machines and click **Next**. You can click **Browse** to search for the target location.
8. If the install contains more than one release, using the Releases window, select the releases to install and click **Next**.

   Note: The Releases window only displays when there is more than one release on the installation media.
9. Using the Product Selection window, select the platform you are installing to, select the products to install, and click **Next**.
10. Using the License Agreement Viewing Preference window, select your preference for viewing and agreeing to the Mentor Graphics License Agreement and click **Next**. The License Agreement will display now if you chose to Accept now.
11. Using the Batch Script Options window, specify the optional script behavior during execution and click **Agree**.

12. Using the Confirm and Save window, confirm the product selections, specify the file to save to (for example, *myBatchFile.BAT*), and click **Save**.
13. Click **Done** to exit the Batch Tool.

The batch script is an executable file and contains XML at the bottom of the file. The XML contains:

- source value — the full path to the source of the installation media (CD-ROM or installed tree)
- target value — the full path to the location where the media is to be installed
- platform value — the platform that is to be installed
- release name — the release name as specified on the source media. For example: Integrated Systems Design: 2004 Service Pack 1.
- product name — the product(s) as specified on the source media

The example below shows the contents of a multiple release batch file created with the Mentor Install Program.

```
<batchFile>
    <source value="C:\MGCData\v1.4_Tests\OtherSets\ISD" />
    <target value="C:\mentor" />
    <platform value="windows" />
    <release name="Integrated Systems Design : 2004 Service Pack 1">
       <product name="Board Stn V8 SW" root="root 1" />
       <product name="Board Station Documentation" root="root 2" />
      </release>
    <release name="Adobe Acrobat Reader for Mentor Graphics">
       <product name="Acrobat Reader with Search Index plug-in" />
    </release>
 </batchFile>
```

See **Performing a Batch Installation** for instructions on launching the batch file and batch script.

Performing a Batch Installation

There are two ways to perform a batch installation:

- Execute a batch script (created by using the Mentor Install Program's Batch Tool)
- Execute the Mentor Install Program using the -batch flag from the command line.

Note: Non-critical warnings are suppressed during a batch installation. However, after installation completes, you can view any warnings that may have occurred by reading the *mip_history.txt* file. The default location for this file is:

On UNIX/Linux:

$HOME/mgc/install.<*vco***>**

On Windows:

C:\MentorGraphics\Install

Note: If you have not created a batch script or a batch file already, refer to the instructions in **Creating a Batch Script** before proceeding with the steps below.

Executing a Batch Script

The batch script is directly executable and contains the information needed to install the specified products. To execute the batch script, assuming you are in the repository location:

On UNIX/Linux:

myBatchFile.sh

On Windows:

myBatchFile.bat

During the execution of the batch script it is possible to specify a source or target different from what is in the batch script.

To specify an alternate target (**-tgt**) or source (**-src**) location:

On UNIX/Linux:

myBatchFile.sh -tgt <*altTargetPath***>**

myBatchFile.sh -src <*altSourcePath***>**

On Windows:

myBatchFile.bat -tgt <*altTargetPath***>**

myBatchFile.bat -src <*altSourcePath***>**

During the execution of the batch script it is possible to specify an alternate location for the installation of the Mentor Install Program. For example, the default installation location of the Mentor Install Program on Windows is C:\MentorGraphics\Install.

To specify an alternate install location for the Mentor Install Program:

On UNIX/Linux:

myBatchFile.sh -msiloc <*altInstallerPath***>**

On Windows:

myBatchFile.bat -msiloc <*altInstallerPath***>**

Executing a Batch File from the Command Line

Do the following to perform a batch installation of Mentor Graphics software:

1. Launch the batch installation using the **-batch** flag and the name of the batch file. If, for example, you are in the directory where both the Mentor Install Program and the batch script are located, you would launch the batch installation as follows:

   On UNIX/Linux:

   mgc_install -batch *myBatchFile.sh*, or

   install.<*vco***> -batch** *myBatchFile.sh*

   On Windows:

   setup.exe -batch *myBatchFile.bat*, or

   install.exe -batch *myBatchFile.bat*

   You may turn verbose mode off by specifying **-silent** before the **-batch** flag. For example:

   On UNIX/Linux:

   install.<*vco***> -silent -batch** *myBatchFile.sh*

   On Windows:

   setup.exe -silent -batch *myBatchFile.bat*

2. After the batch installation is launched, you are prompted to agree to the Mentor Graphics Licensing Agreement. You can select:

   - **D** — Displays the entire license agreement; you are then prompted to accept the agreement by typing Yes.
   - **P** — Pages through the license agreement; you are then prompted to accept the agreement by typing Yes.
   - **R** — Prints the license agreement; you are then presented with the Print window where you can designate a printer to print out the EULA to and batch is then terminated.
   - **X** — Exits the application; batch is terminated.

After the License Agreement is agreed to, a progress indicator displays to show the percentage of batch installation complete.

Mentor Install Program and Java

The Mentor Install Program is a Java application. It does not overwrite any other Java Runtime Environment (JRE) that you may have on your system.

Setting Application Options

Use the Application Options window to set application options. This window is invoked from the menu **Tools > Application Options**.

Note: Settings on these options are persistent; subsequent invocations of the Mentor Install Program will carry any changes you make to the settings of these options.

Note: The Application Options menu item is disabled when an Input file is used. An Input file is created in XML file format by System Administrators who want to lock down application options. Refer to **Creating an Input File.**

Select a tab to view the various application options available. Options are:

- **Auto Selection**

  Auto-select products that exist at target - When the check box is checked (default), the Mentor Install Program automatically selects previously installed products for update. The Mentor Install Program will locate these previously installed products at the Target location.

  Auto-select products with licenses - When the check box is checked (default), the Mentor Install Program automatically selects products based on product licenses available in your licensing environment. The Mentor Install Program relies on Mentor licensing to determine what products you are licensed for so Mentor licensing needs to be installed prior to product installation. If your license file is not in the default location, you must set either the MGLS_LICENSE_FILE or LM_LICENSE_FILE environment variables for this feature to be activated. Refer to the *Licensing Mentor Graphics Software* manual for more information on licensing.

  Server Timeout (seconds) - Use the slider to set the number of seconds before server timeout.

- **Conflict Detection**

  Check for conflicts in product selection - When the check box is checked (default), the Mentor Install Program automatically checks for conflicts and prompts you for an **OK** to have the Mentor Install Program try to resolve those conflicts. You may choose to disable this feature if, for example, you are receiving Warning messages during install about a conflict in product selection and you do not want to receive these warnings. When the checkbox box is not checked, the installation proceeds as directed. Any

products that share components, but are not selected for installation, will only be partially updated.

For example: If you have Product A already installed and it shares a component that will be updated by installing Product B, that is a conflict.

- **Script Execution**

  Run only scripts associated with current install or update - When the check box is checked (default), the Mentor Install Program runs only scripts associated with the current product install or update. You may choose to disable this feature if, for example, there are other pre-existing scripts at the same target location that you want run. These scripts would then be run regardless of whether they are associated with the current install or update. We recommend leaving this option checked unless the Release Notes specifically tell you otherwise.

To disable these options, uncheck the corresponding check box and click **OK**.

Click **OK** to set and save the application options.

Click **Cancel** to close the Application Options window without saving any changes.

Determining System Requirements

For current system requirements, refer to the Release Information for a particular release on Mentor Graphics SupportNet. Request a login to this area (for new customers) from the following web page:

```
http://www.mentor.com/supportnet
```

Returning customers can enter by using your login name and password. For customers outside North America, contact your local Mentor Graphics office for assistance.

Understanding the Install Program Setup

The Mentor Install Program is installed to the following default locations:

On Windows:

C:\MentorGraphics\install

On UNIX/Linux:

$HOME/mgc/install.<*vco*>

where *vco* equals the three character platform identification of the platform you are installing on.

The *install* directory contains:

- **bin** directory — Contains executables required by the Mentor Install Program.
- **data** directory — Contains files that record information on source and target directories, and platforms used by the Mentor Install Program.
- **java** directory — Contains executables required by the Mentor Install Program.
- **JRE** directory — Contains the files that comprise the Java Runtime Environment required by Mentor Graphics Install Java executables.
- **LOGS** directory — Contains installation history logs.
- **tmp** directory — Contains temporary files needed by the Mentor Install Program.
- **Install.exe** — A stand-alone application on Windows. On UNIX/Linux, it is a script named **mgc_install**.
- **installHelp.pdf** — Contains the *Installing Mentor Graphics Software* online help in book format. You can print the entire help contents from this file.
- **mip_history.txt** — Contains the results of the currently running installation session(s) and up to ten previously run session logs. The information is updated at the end of every installation session.

Selecting a Location for the Mentor Graphics Product Tree

The product tree is a directory structure that contains all files required to run your Mentor Graphics applications. You can install one or more product trees depending on the disk space available on your network and the needs of your users.

The selected location must contain adequate disk space for all of your Mentor Graphics software. The Mentor Install Program provides information about the size of the products prior to installation.

Determining What Products Are Already Installed

To determine what products and product versions are already installed at a target location, invoke the Mentor Install Program and click **Verify Installation**. The resulting Product Selection window displays a list of installed products.

Unmounting the CD-ROM on UNIX/Linux

After product installation is complete, you may have to unmount the CD-ROM and remove it from the drive. At the system prompt do the following:

umount /cdrom (For HP-UX and AIX)

umount /mnt/cdrom (For Linux)

eject cd (For Solaris running vold)

Installing and Configuring Licensing

Refer to the ***Licensing Mentor Graphics Software*** manual for complete information about ordering software licenses, setting up the licensing environment, and starting the license server.

Mentor Graphics products require that a licensing environment be set up prior to running applications.

If your license file is not in the default location, you must set either the MGLS_LICENSE_FILE or LM_LICENSE_FILE environment variables.

Other environment variables that are specific to Mentor Graphics applications are listed in product-specific configuration manuals or release notes.

Creating an Input File

Note: Use of an Input file is intended for System Administrators who want to lock down application options. It is not intended for general users. General users should use the Application Options window to set application options. This window is invoked from the menu **Tools > Application Options.**

Note: This is not a batch installation. A separate '-batch' switch is used for non-GUI batch installations. Refer to **Creating a Batch File** for more information.

An Input file is created manually in XML file format and is used to:

- Override the following settings in the Mentor Install Program:
  - Turning on/off select by license — when On, the Mentor Install Program automatically selects products based on product licenses available in your licensing environment.
  - Setting the timeout value on the select by license feature.
  - Turning on/off automatic update selection — when On, the Mentor Install Program automatically selects previously installed products for update.
  - Turning on/off conflict detection — when On, the Mentor Install Program automatically checks for conflicts and, if any are detected, the Mentor Install Program tries to resolve those conflicts.
- Provide a mechanism to supply default values:
  - Setting the default source path — allows you to specify the default source path.

- Setting the default target path — allows you to specify the default target location.

To launch the Input file, type

Install -input <*input_file_path*>

The following is an example of an Input file:

```
<inputFile>
<!--######################################## -->
<!--# MSI Input File -->
<!--######################################## -->
<!--## -->
<MSI_AutoSelectUpdatesOption value='FALSE' />
<MSI_LicenseFileSelectionOption value='FALSE'/>
<MSI_ConflictDetectionOption value='FALSE' />
<MSI_IgnoreTargetScriptOption value='TRUE' />
<!-- -->
<MSI_SourcePath value='M:/MySource' />
<MSI_TargetPath value='S:/MyTarget' />
<MSI_SBLFTimeoutOption value='120' />
</inputFile>
```

Note: The Input file options and values are case sensitive to the platform you are using.

Specifying the Installation Target

Use the Target Selection window to specify the pathname to the target location for your installation.

1. In the **Select a target location** field, type the path to the location where you want to install (such as the MGC tree: /opt/mgc_tree), select the target location from the dropdown list, or browse for the target location.

   Note: This field may be blank the first time the Mentor Install Program is used. After a successful installation, the field will default to the last used target location.

   The dropdown list shows the last target used. If your target Mentor Graphics tree is on a remote system, enter the full pathname to that system, ending with the directory where the Mentor Graphics software will reside. If the leaf directory does not currently exist, Install creates the directory before loading the software to that location.

   For information on selecting locations for product trees and how to plan for your software configuration, see the CD Booklet available with the installation media.

2. Click **Install** to continue with the installation. **Back** takes you back to the License Agreement window. **Cancel** exits the Mentor Install Program.

Performing a Batch Verification

After you have performed an installation you can ensure that products installed correctly by performing a batch verification from the command line.

Do the following to perform a batch verification of Mentor Graphics software using the specified batch file or target directory.

Launch the batch verification using the **-batchverify** flag and the name of the batch file or target directory.

On UNIX/Linux:

$HOME/mgc/install.<*vco***>/mgc_install -batchverify** <*file/Directory*>, or

$HOME/mgc/install.<*vco***> -batchverify** <*file/Directory*>

On Windows:

C:\MentorGraphics\Install\setup.exe -batchverify <*file\Directory*>, or

C:\MentorGraphics\Install\install.exe -batchverify <*file\Directory*>

When you specify a file, the Mentor Install Program uses the products and target specified in the file to perform a product verification. For example:

C:\MentorGraphics\Install\install.exe -batchverify C:\temp\batch\batchFile.bat

When you specify a Directory, the Mentor Install Program performs a product verification of all products at this target directory. For example:

C:\MentorGraphics\Install\install.exe -batchverify C:\Mentor\Software

Performing a Batch Remove

Do the following to perform a batch removal of Mentor Graphics software using the specified batch file or target directory.

Launch the batch removal using the **-batchremove** flag and the name of the batch file or target directory.

On UNIX/Linux:

install.<*vco***> -batchremove** <*file/Directory*>, or

$HOME/mgc/install.<*vco***>/mgc_install -batchremove** <*file/Directory*>

On Windows:

\setup.exe -batchremove <*file\Directory*>, or

C:\MentorGraphics\Install\install.exe -batchremove <*file\Directory*>

When you specify a file, the Mentor Install Program uses the products and target specified in the file to perform a product removal. For example:

C:\MentorGraphics\Install\install.exe -batchremove C:\temp\batch\batchFile.bat

When you specify a Directory, the Mentor Install Program removes all Mentor Graphics products at this target directory. For example:

C:\MentorGraphics\Install\install.exe -batchremove C:\Mentor\Software

Using the Mentor Graphics Batch Tool

The Mentor Install Program provides a Batch Tool for batch installation. A batch installation is where you define a series of steps to be performed and then have the steps executed automatically.

Note: The Batch Tool replaces the original batch mechanism that had you "Save" a file containing product selections from the Confirm Selection window.

The Batch Tool allows Administrators to use the Mentor Install Program to create an executable batch script that various users can run on their machines and have a common installation. This batch script is useful to Administrators who want to automate installation to multiple, similarly configured machines.

Running a batch installation:

- Provides a non-interactive installation of Mentor Graphics products.
- Installs files into a new target location or installs patches to an existing tree.

Use the Batch Tool to create a batch script. There are two ways to create the batch script:

- Wizard — A step-by-step guide to creating an executable batch script.
- Advanced — An advanced editor that allows you to load or create an executable batch script. (Not available in this release.)

Repository Setup Overview for a Batch Install

This window explains the first part of the batch script creation using the Batch Install Wizard. In this part, you define the network paths to the repository. The repository is the location of the installation source and the Mentor Install Program executable.

Note: Before continuing beyond this screen, download or copy the CD contents to the repository location. Scroll to the bottom of this help topic for information on creating the

repository. It is recommended that the source and Mentor Install Program reside in the same repository location.

Once your repository contains the download or copy of the CD contents and the Mentor Install Program, use the wizard to walk you through how to:

- Select the path to the installer executable at the repository location.

  On UNIX/Linux, by default, the Install Program is **install.<*vco*>**.

  On Windows, by default, the Install Program is **setup.exe**.

- Select the path to the source at the repository location. Valid source directories display with a gold-colored folders or Mentor Install Program icon attached to the file name.

Click **Next** to begin the repository setup. Click **Back** to return to the Batch Tool welcome window. Click **Cancel** to exit the Batch Tool. A popup window will appear, asking you to confirm the Cancel. Selecting **Yes** exits the Batch Tool wizard and returns you to the Batch Tool Welcome window where you began. Selecting **No** removes the popup window and stays on the Repository Setup Overview window.

How to Set Up the Repository

You need to identify a location, or *repository*, where the installation source and the Mentor Install Program can be centrally located. Ideally, the repository should be accessible by all of the machines that will ultimately be executing the batch installations. Copy the CD or download the release(s) to this repository.

- If the installation source is on one or more CDs, all CDs should be copied to the same repository. Directories with the same name should be merged at the repository (and the original name/structure should be retained).
- If the installation source was downloaded, extract or unzip the download to the repository. The idea is to collocate all the files in the repository.

The Mentor Install Program needs to be copied to the repository (assuming it was not automatically delivered with the source or the source is a Mentor Install Bundle (MIB)). The Mentor Install Program is two files on Windows (**setup.exe** and **_cabmis.exe**) and one file for UNIX/Linux platforms (**install.<*vco*>** where <*vco*> is a platform suffix of three characters that is used for platform identification). When the batch script is executed, the Mentor Install Program is installed each of the machines.

Specifying the Mentor Graphics Installer for a Batch Install

Use the Mentor Graphics Installer window to specify the path to the installer executable at the repository location.

1. Select the path to the installer executable.

   - On Windows, by default, the Install Program is the **setup.exe** that came with your CD.
   - On UNIX/Linux, by default, the Install Program **install.<***vco***>**.

   You can click the **Browse** button to locate the Install executable.

2. Click **Next** to continue the repository setup. Click **Back** to return to the previous window. Click **Cancel** to exit the Batch Tool. A popup window will appear, asking you to confirm the Cancel. Selecting **Yes** exits the Batch Tool wizard and returns you to the Batch Tool Welcome window where you began. Selecting **No** removes the popup window and stays on the Mentor Graphics Installer window.

Specifying the Source for a Batch Install

Use the Source Location window to specify the pathname to the source that you copied to the repository. Note that the source location is generally the same path as where you placed the Mentor Install Program executable, namely your repository.

Note: The Select a source location field defaults to the path where you invoked the Install Program or where you last installed from. The display area provides release information on the source shown in the field.

- If the field is incorrect or blank (may occur the first time the Mentor Install Program is used) type the path to the location of the source you want to install. If your source is on a network, enter the full pathname to the source.
- If you need to search for the source location, select **Search** and using the Source Browser screen, navigate to a CD or download location. Click in the upper-left panel to browse folders on your file system. Click **Find** to start a search for sources inside the folder highlighted in the upper-left panel. Valid sources are displayed with a golden folder. Highlight the source in the upper-right panel (details of the highlighted source are displayed in the bottom panel of the Source Browser) and click **Select** to select the source location and return to the Source screen. For more information on the Source Browser, see the **Using the Source Browser** help topic.

After a successful installation, the field will default to the last used source location. The dropdown list displays the collection of all previously used sources.

The proper source format for installing products from one of the above is any of the following:

- A directory containing the subdirectory _msidata. The _msidata subdirectory is read to determine Release contents.
- A file with an extension of .mis (for example, ReleaseV4S23.mis).
- A source bundled as a Windows executable file with an extension of .exe.

- A UNIX/Linux executable file with an extension of .<*vco*>, where vco equals a three-character platform identification of the platform you are installing to such as ss5 for Solaris SPARC. For example: ReleaseV4S23.ss5

2. Click **Next** to continue with the Batch Tool. Click **Back** to return to the previous window. Click **Cancel** to exit the Batch Tool. A popup window will appear, asking you to confirm the Cancel. Selecting **Yes** cancels exits the Batch Tool and returns you to the Batch Tool Welcome window where you began. Selecting **No** removes the popup window and stays on the Source Location window.

Client Batch Script Overview

This window explains the second and last part of the batch script creation using the Batch Install Wizard. In this part, you create the batch script that will run on the client machines. The script installs the software from the repository you set up in Part 1.

To create the batch script, the wizard walks you through how to:

- Select the default Target location where products are installed on the client machines.
- Select the release (only if more than one release is at the source location).
- Select the products to install.
- Set options for the batch install (viewing of the license agreement, whether to run in silent mode or not, and whether to perform a Verify after installation).

Click **Next** to begin the client batch script creation. Click **Back** to return to the previous window. Click **Cancel** to exit the Batch Tool. A popup window will appear, asking you to confirm the Cancel. Selecting **Yes** exits the Batch Tool wizard and returns you to the Batch Tool Welcome window where you began. Selecting **No** removes the popup window and stays on the Client Batch Script Overview window.

Specifying the Default Target Location for Batch Install

Use the Default Target Location window to specify the default target location where products are installed on the client machines. This should be a common location on all client machines.

1. In the **Path to target location used on all client machines** field, you may
   - Enter the full pathname, ending with the directory where the Mentor Graphics software will reside on the client machine. If the directory does not currently exist, executing the batch script creates the directory before loading the software to that location.

- Select the target location from the dropdown list. The dropdown list shows the previous targets used.

  Note: The dropdown list may be blank the first time the Mentor Install Program is used. After a successful installation, the field will default to the last used target location.

- Browse for the default target location, by clicking **Browse...**

For information on selecting locations for product trees and how to plan for your software configuration, see the product's web download instructions on SupportNet (www.supportnet.mentor.com) or in the CD Booklet available with the installation media.

2. Click **Next** to continue the client batch script creation. Click **Back** to return to the previous window. Click **Cancel** to exit the Batch Tool. A popup window will appear, asking you to confirm the Cancel. Selecting **Yes** exits the Batch Tool wizard and returns you to the Batch Tool Welcome window where you began. Selecting **No** removes the popup window and stays on the Default Target Location window.

Note: The default target location can be overwritten when executing the batch script by using the **-tgt** argument followed by the new target location. For example:

On UNIX/Linux:

myBatchFile.sh **-tgt /mentor/software**

On Windows:

myBatchFile.bat **-tgt C:\Mentor\Software**

Selecting Products for a Batch Install

Use the Product Selection window to select the platform and the product(s) to install.

Note: Based on the release, some products may appear pre-selected. The Mentor Install Program automatically selects products based upon licenses. You can disable the **Auto-Select products with licenses** feature on the Applications Options window. Invoke from the **Tools > Application Options** menu.

From the Product Selection window, you can view information about each of the products available for installation and how much disk space is required to install selected products.

1. In the **Select a platform** field, verify the platform you are installing to. By default, this field will show the platform you are running the Mentor Install Program on. However, if you are installing to a different platform, select that platform from the dropdown list. Based on the platform selection, this window will only show products available for installation from the source location for that same platform.

2. From the list in the left window pane, select the product(s) to install. The following information is listed for each product:

   - **Name**: This column lists the products available for install from the release(s) previously selected and for the platform selected. Clicking a product name results in the rightmost pane filling with information on that product.
   - **Licenses**: The key icon in this field indicates which product licenses were found (blue key) and which licenses are missing (broken red key). Clicking on the **Key** icon scrolls the rightmost pane to the license information for that product.
   - **Target**: The target icon is not displayed when creating a batch script.

   Note: The **Space required** for the products selected is shown under the left window pane. This field dynamically updates to list the total space required for each product selected. The actual space required may be less if this is an update to products that already exist at the target on the client machine.

3. Click **Next** to continue the client batch script creation. Click **Back** to return to the previous window. Click **Cancel** to exit the Batch Tool. A popup window will appear, asking you to confirm the Cancel. Selecting **Yes** exits the Batch Tool wizard and returns you to the Batch Tool Welcome window where you began. Selecting **No** removes the popup window and stays on the Product Selection window.

Selecting Your License Agreement Viewing Preferences for a Batch Install

Use the License Agreement Viewing Preference window to select your preference for viewing and agreeing to the Mentor Graphics License Agreement.

You can view the Licensing Agreement from the Mentor Install Program home page.

Your choices are:

- **Prompt for agreement each time the batch script is run**.

  (Default) Choose this option and click **Next** to require the Licensing Agreement to be shown and Agreed to at each client station when the batch script is run.

- **Don’t prompt for agreement each time the batch script is run**.

  Choosing this option does not require interaction at the client machine when the batch script is run. The License Agreement is still displayed on the client machine. If you choose this option and click **Next**, the Mentor Graphics Licensing Agreement displays and you must Agree to it before continuing with the batch script creation. Your **Agree** here means that you represent your company and whomever runs this script to install Mentor products.

Click **Next** to continue the client batch script creation. Click **Back** to return to the previous window. Click **Cancel** to exit the Batch Tool. A popup window will appear, asking you to confirm the Cancel. Selecting **Yes** exits the Batch Tool wizard and returns you to the Batch Tool Welcome window where you began. Selecting **No** removes the popup window and stays on the License Agreement Viewing Preference window.

Specifying Optional Script Behavior for a Batch Install

Use the Batch Script Options window to specify optional script behavior during a batch install execution.

Your options are:

- **Check if you want detailed progress during installation**

  Verbose mode — Default is to not run in Verbose mode. Select this option and the batch script will display detailed progress during product installation. The Mentor Graphics licensing agreement will have to be agreed to unless the "Don't prompt for Agreement each time the batch script is run" option was selected on the previous window.

- **Check if you want to verify the files after installation**

  Verify Installation — Default is to not run a Verify. Select this option to automatically launch a verification process after product installation is complete during a batch installation. Running a verify takes extra time.

- **Check if you want to copy the log files from the clients to the repository**

  Copy log files to repository — Default is to not copy the log files to the repository. Select this option if you want each client installation log file copied back to the repository. Note that clients must have write access to the repository.

Click **Next** to continue the client batch script creation. Click **Back** to return to the previous window. Click **Cancel** to exit the Batch Tool. A popup window will appear, asking you to confirm the Cancel. Selecting **Yes** exits the Batch Tool wizard and returns you to the Batch Tool Welcome window where you began. Selecting **No** removes the popup window and stays on the Batch Script Options window.

Confirming and Saving the Batch Script

Use the Confirm and Save window to review and confirm the selections you have made for the batch script and specify where to save the batch script. The default location is the repository.

Specify the location and name of the batch script. Examples of batch script names are:

On UNIX/Linux:

myBatchFile.sh

On Windows:

myBatchFile.bat

Click **Save** to save the batch script. Click **Back** to return to the previous window and make changes to your batch script. Click **Cancel** to cancel the batch process. A popup window will appear asking you to confirm the Cancel. Selecting **Yes** exits the Batch Tool wizard and returns you to the main Mentor Install Program window. Selecting **No** removes the popup window and stays on the Confirm and Save window.

Viewing the Licensing Agreement in the Batch Tool

Use this window to view the Mentor Graphics Licensing Agreement. Carefully read the agreement and accept it before creating the batch script.

Click **Save** to save the Licensing Agreement to a file.

Click **Print** to print a hardcopy of the Licensing Agreement.

Click **Agree** to accept the Licensing Agreement and continue with the batch script creation.

Back returns you to the previous window.

Cancel cancels the Batch Tool wizard. A popup window will appear, asking you to confirm the Cancel. Selecting **Yes** cancels the Batch Tool wizard and returns you to the main Mentor Install Program window. Selecting **No** removes the popup window and stays on the License Agreement window.

Batch Tool: Advanced

Not available in this release.

Performing an Install from the Command Line

You can perform an installation from the command line on all platforms regardless of whether the Mentor Install Program is installed or not.

On Windows:

setup.exe is the executable that installs the Mentor Install Program on Windows. This executable is generally contained on the Mentor product CD with the source or can be downloaded from SupportNet.

You can launch the Mentor Install Program from a Windows shell with the following command:

setup.exe

If the Mentor Install Program is not installed, you can download it from SupportNet (`www.supportnet.mentor.com`).

setup.exe installs **install.exe** to C:\MentorGraphics\Install (the Mentor Install Program default location on Windows).

If the Mentor Install Program is already installed to the default location, then you can launch it by typing the following:

C:\MentorGraphics\install\install.exe

Running **setup.exe -help** or i**nstall.exe -help** provides usage information.

On UNIX/Linux:

install.<*vco***>** is the executable that installs the Mentor Install Program on UNIX/Linux. This executable is generally contained on the Mentor product CD with the source or can be downloaded from SupportNet.

You can launch the Mentor Install Program from a UNIX/Linux terminal window with the following command:

install.<*vco***>**

If the Mentor Install Program is not installed, you can download it from SupportNet (`www.supportnet.mentor.com`).

install.<*vco***>** installs **mgc_install** to $HOME\mgc\install.<*vco*> (the Mentor Install Program default location on UNIX/Linux).

If the Mentor Install Program is installed already to the default location, then you can launch it by typing the following:

$HOME/mgc/install.<*vco***>/mgc_install**

where *vco* equals the three character platform identification of the platform you are installing on.

Running **install.<*vco*> -help** or **mgc_install -help** provides usage information.

Using the Source Browser

Use the Source Browser window to select the source location for your installation. This screen is accessed from the Source and Target window or from the Source Location (Batch Tool) window by selecting the **Search** button.

In the Search Browser window:

Click in the upper-left panel to browse folders on your file system. Directories containing valid sources are displayed with a golden folder.

As you browse each folder, the Source Browser displays valid sources in the upper-right panel for selection.

Use **Find** to start a recursive search for sources inside the folder highlighted in the upper-left panel.

Use Stop to cancel a search. Sources found up to the point of stopping are displayed in the upper-right panel.

Click in the upper-right panel to highlight one of the displayed sources. Details of the highlighted source are displayed in the bottom panel of the Source Browser.

Highlight the source you want and click **Select** to select the source and return to the Source and Target window (or Source Location window in the Batch Tool).

The proper source format for installing products from one of the above is any of the following:

- A directory containing the subdirectory _msidata. The _msidata subdirectory is read to determine Release contents.
- A file with an extension of .mis (for example, ReleaseV4S23.mis).
- A source bundled as a Windows executable file with an extension of .exe.
- A UNIX/Linux executable file with an extension of .<*vco*>, where vco equals a three-character platform identification of the platform you are installing to such as ss5 for Solaris SPARC. For example: ReleaseV4S23.ss5

Selecting Releases for a Batch Install

Note: Typically there is only one release on the installation media. The Releases window only displays when there is more than one release on the installation media.

Use the Releases window to select the release(s) to install.

1. From the list on the left window pane, select the release(s) to install. The rightmost pane displays information on the release that is currently highlighted.

Note: When a Release is highlighted in the left window pane, the rightmost pane lists the products available in the selected release for all platforms.

2. Click **Next** to continue the client batch script creation. Click **Back** to return to the previous window. Click **Cancel** to exit the Batch Tool. A popup window will appear, asking you to confirm the Cancel. Selecting **Yes** exits the Batch Tool wizard and returns you to the Batch Tool Welcome window where you began. Selecting **No** removes the popup window and stays on the Releases window.

Selecting from Install Options

Note: This window is available because there is a documentation package available in the release.

Use the Install Options window to specify the documentation and software components to install.

1. Select the Components to install. Choices are:
   - **Software and documentation** — if the software and documentation target are the same, this option installs software and documentation to the target location specified on the Source/Target window. If the documentation target is different from the software target, then this option installs to the respective paths.
   - **Software only** — installs software only to the target location specified on the Source/Target window.
   - **Documentation only** — installs documentation only to the target location specified on the Source/Target window. If an alternate location is specified, the documentation is installed to that location and the Source/Target location is ignored.
2. If the release supports an Alternate Document Location, you can choose the location for the documentation:
   - **Use the target location** — installs the documentation to the target location that you specified on the Source/Target window (shown to the right of this field), or
   - **Use alternate location** — type in or click Browse to navigate to the location to install the documentation.
3. Click **Next** to continue the installation. Click **Back** to return to the previous window. Click **Cancel** to cancel the installation process. A popup window will appear, asking you to confirm the Cancel. Selecting **Yes** cancels the installation and returns you to the window where you began the installation process. Selecting **No** removes the popup window and stays on the Install Options window.

Glossary

Batch install
A non-interactive (after the license agreement is agreed to), command line tool to install Mentor Graphics products. It can also be used to install patches.

Batch script
The batch script, created by using the Mentor Install Program's Batch Tool, is directly executable and contains the information needed to install the specified products.

Batch Tool
The Batch Tool allows Administrators to use the Mentor Install Program to create an executable batch script that various users can run on their machines and have a common installation. The Batch Tool Wizard walks you through creation of an executable batch script; useful to Administrators who want to automate installation to multiple, similarly configured machines.

Checksum
A form of redundancy check. The Verify Installation tool in the Mentor Install Program runs a checksum to detect errors in data that may have occur during installation.

Conflict
A mismatch. In the Mentor Install Program, conflicts can occur during installation. The Check for conflicts in product selection option (by default) automatically checks for conflicts during product installation.

Home Window
The window that appears when the Mentor Install Program first opens.

Input File
An XML file intended for System Administrators using the Mentor Install Program that want to lock down application options.

JRE
Acronym for Java Runtime Environment.

Main Install Window
Any home window where pull-down menus are active/accessible (Tools, Verify Products, Remove Products, etc.).

MIB
Mentor Install Bundle — A single, self-extracting executable file that installs the Mentor Install Program and contains a set of Mentor products to be installed.

MIP
Mentor Install Program — A Java application which installs other Mentor products.

MIS
Mentor Install Source — A compressed file containing a set of Mentor products. This file is a valid source that is understood by the Mentor Install Program.

Platform suffix
See vco.

Product
An application.

Release
A release contains products. Typically there is only one release on the installation media.

Repository
The location of the installation source.

Source
The path to install from. Install source options are a web download or CD-ROM.

Space Available
The amount of disk space available for files.

Space Required
The amount of disk space necessary for the product to be installed. This amount may be negative if an update uses less space than the original installation.

Target
The path to install to. This is the location of the directory structure that will contain all files required to run your Mentor Graphics software.

Target List
A list of previous targets used. This dropdown list is available on the Source and Target window next to the Target field.

Tool tip
A brief function description that appears when you glide the mouse cursor over a button, field, or menu.

vco
The acronym for Vendor/CPU/Operating System Designations. A *vco* is a platform suffix of three characters that is used for platform identification. Some examples include: ss5, ss6, ixn, ixl.

verbose mode
An optional script behavior that is set in the Batch Tool when creating a batch script. When turned on (default is off) and the batch script is executed, the batch install will display detailed progress during product installation.

Verify installation

The Mentor Install Program provides a Verify Installation tool that, when run, ensures that products have installed correctly. The tool runs a checksum and size verification on all products selected and displays the results.

Wizard

The Mentor Install Program uses a Wizard interface to help walk you through the Install Products, Remove Products, and Verify Installation processes.

Index

— A —
Application options, 1-17
Auto-select products, 1-17

— B —
Batch flag, 1-16, 1-20, 1-22
Batch installation, 1-12, 1-23

— C —
Checking for conflicts, 1-17
Confirm Selections window, 1-5
Confirming Product Selections, 1-5
Confirming Products for Removal, 1-8
Creating a Batch File, 1-12

— D —
Docs icon, 1-5

— E —
Environment variables
  MGC_WD, 1-20

— H —
Help button, 1-1
Help pull-down menu, 1-1

— I —
Input file, 1-21
Input flag, 1-21
Install Products button, 1-1
Installation Target, 1-2
Installation Verification Results, 1-7
Installing Licensing
  on UNIX, 1-20
Installing Products window, 1-6
Installing the Java Runtime Environment, 1-17

— K —
Key icon, 1-5, 1-28

— L —
Licenses, 1-5, 1-28

— M —
Making Product Selections, 1-4, 1-27
Mentor Graphics Install Home window, 1-1, 1-6
Mentor Graphics Licensing Agreement, 1-2, 1-30
MGC_WB, 1-20
Mounting the CD, 1-11

— O —
Ordering Software Licenses, 1-10

— P —
Performing, 1-14
Performing a Batch Installation, 1-14
Performing a New or Update Installation, 1-10
Planning your software configuration, 1-1
Product Selection window, 1-4, 1-27

— R —
Releases window, 1-4
Removing Installed Products, 1-7
Removing Products - Confirm Removal Selection window, 1-8
Removing Products - Product Removal Selection window, 1-8
Removing Products window, 1-9

— S —
Selecting a platform, 1-4, 1-27
Selecting a source location, 1-2
Selecting a target location, 1-3, 1-21
Selecting Products for Removal, 1-8
Selecting Releases to Install, 1-4
Selecting the path to target location in a batch script, 1-26
Setting MGC_WD', 1-20
Setting Target List window, 1-9
setup.exe, 1-16, 1-22, 1-23
Sorting by Product, 1-7
Sorting by Target, 1-7

Source, Glossary-1
Source and Target window, 1-2
Space Available, Glossary-2
Space available, 1-5
Space Required, Glossary-2
Space required, 1-5, 1-28
Specifying the Installation Source and Target, 1-2, 1-10

— T —

Target, 1-5, 1-28, Glossary-2
Target icon, 1-5
Tasks on UNIX
  installing licensing, 1-20
Tool tips, 1-1

— U —

UNIX, installing licensing, 1-20
Using Keyboard Navigation, 1-14

— V —

Verbose mode, 1-29
Verifying Installation - Product Selection window, 1-6
Verifying Installation - Results window, 1-7
Verifying Installation Results, 1-7
Verifying Installation window, 1-6
Verifying Product Selection, 1-6
Viewing Progress of Product Removal, 1-9

— W —

Windows
  Confirm Selections, 1-5
  Installing Products, 1-6
  Mentor Graphics Install Home, 1-1, 1-6
  Product Selection, 1-4, 1-27
  Releases, 1-4
  Removing Installed Products, 1-7
  Removing Products, 1-9
  Removing Products - Confirm Removal Selection, 1-8
  Removing Products - Product Removal Selection, 1-8
  Setting Target List, 1-9
  Source and Target, 1-2
  Verifying Installation, 1-6
  Verifying Installation - Product Selection, 1-6
  Verifying Installation - Results, 1-7
Wizard, Glossary-3

Third-Party Information

- This software application may include Apache third-party software. Apache is distributed under the terms of the Apache License version 2.0 and is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the license for the specific language governing rights and limitations under the license. You can view a copy of the license at: Install\legal\apache_2.0.pdf (on Windows) and install.<vco>/legal/apache_2.0.pdf (on UNIX/Linux).

- This software application may include Java 1.6 JRE third-party software. Java 1.6 JRE is distributed under the terms of the Sun Microsystems, Inc. Binary Code License Agreement for the JAVA SE RUNTIME ENVIRONMENT (JRE) VERSION 6 and is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the license for the specific language governing rights and limitations under the license. You can view a copy of the license at: Install\legal\sun_binary_JRE_6.pdf (on Windows) and install.<vco>/legal/sun_binary_JRE_6.pdf (on UNIX/Linux). Additional copyright notices and license terms applicable to portions of Java 1.6 JRE can be found at: Install\JRE\THIRDPARTYLICENSEREADME.txt (On Windows) and install.<vco>/JRE/THIRDPARTY-LICENSEREADME.txt (On UNIX). Java 1.6 JRE may be subject to the following copyrights:

  © 1999 by CoolServlets.com.

  Any errors or suggested improvements to this class can be reported as instructed on CoolServlets.com. We hope you enjoy this program... your comments will encourage further development!

  This software is distributed under the terms of the BSD License.

  Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

  1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

  Neither name of CoolServlets.com nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

  THIS SOFTWARE IS PROVIDED BY COOLSERVLETS.COM AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING INANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE."

  © 2002 Graz University of Technology. All rights reserved.

  Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

  1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

  3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment:

     "This product includes software developed by IAIK of Graz University of Technology."

Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.

4. The names "Graz University of Technology" and "IAIK of Graz University of Technology" must not be used to endorse or promote products derived from this software without prior written permission.

5. Products derived from this software may not be called "IAIK PKCS Wrapper", nor may "IAIK" appear in their name, without prior written permission of Graz University of Technology.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE LICENSOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

© 2001 The Apache Software Foundation. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment:

   "This product includes software developed by the Apache Software Foundation (http://www.apache.org/)."

   Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.

4. The names "Apache" and "Apache Software Foundation" and "Apache Turbine" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact apache@apache.org.

5. Products derived from this software may not be called "Apache", "Apache Turbine", nor may "Apache" appear in their name, without prior written permission of the Apache Software Foundation.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

© 1996-1999 by Scott Hudson, Frank Flannery, C. Scott Ananian

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both the copyright notice and this

permission notice and warranty disclaimer appear in supporting documentation, and that the names of the authors or their employers not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

The authors and their employers disclaim all warranties with regard to this software, including all implied warranties of merchantability and fitness. In no event shall the authors or their employers be liable for any special, indirect or consequential damages or any damages whatsoever resulting from loss of use, data or profits, whether in an action of contract, negligence or other tortious action, arising out of or in connection with the use or performance of this software.

© 1996-2003 by Elliot Joel Berk and C. Scott Ananian

Permission to use, copy, modify, and distribute this software and its documentation for any purposeand without fee is hereby granted, provided that the above copyright notice appear in all copies and that both the copyright notice and this permission notice and warranty disclaimer appear in supporting documentation, and that the name of the authors or their employers not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

The authors and their employers disclaim all warranties with regard to this software, including all implied warranties of merchantability and fitness. In no event shall the authors or their employers be liable for any special, indirect or consequential damages or any damages whatsoever resulting from loss of use, data or profits, whether in an action of contract, negligence or other tortious action, arising out of or in connection with the use or performance of this software.

Java is a trademark of Sun Microsystems, Inc. References to the Java programming language in relation to JLex are not meant to imply that Sun endorses this product.

© 1995-2003 The Cryptix Foundation Limited. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE CRYPTIX FOUNDATION LIMITED AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS ORIMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FORA PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE CRYPTIX FOUNDATION LIMITED OR CONTRIBUTORS BELIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOTLIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESSINTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OFTHE POSSIBILITY OF SUCH DAMAGE.

© 1994-2002 World Wide Web Consortium, (Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University). All Rights Reserved.

http://www.w3.org/Consortium/Legal/

Public documents on the W3C site are provided by the copyright holders under the following license. The software or Document Type Definitions (DTDs) associated with W3C specifications are governed by the Software Notice. By using and/or copying this document, or the W3C document from which this statement is linked, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions:

Permission to use, copy, and distribute the contents of this document, or theW3C document from which this statement is linked, in any medium for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the document, or portions thereof, that you use:

1. A link or URL to the original W3C document.

2. The pre-existing copyright notice of the original author, or if it doesn't exist, a notice of the form: "Copyright Â© [$date-of-document] World Wide Web Consortium, (Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University). All Rights Reserved. http://www.w3.org/Consortium/Legal/" (Hypertext is preferred, but a textual representation is permitted.)

3. If it exists, the STATUS of the W3C document.

When space permits, inclusion of the full text of this NOTICE should be provided. We request that authorship attribution be provided in any software, documents, or other items or products that you create pursuant to the implementation of the contents of this document, or any portion thereof.

No right to create modifications or derivatives of W3C documents is granted pursuant to this license. However, if additional requirements (documented in the Copyright FAQ) are satisfied, the right to create modifications or derivatives is sometimes granted by the W3C to individuals complying with those requirements.

THIS DOCUMENT IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONSOR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OFMERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, OR TITLE;THAT THE CONTENTS OF THE DOCUMENT ARE SUITABLE FOR ANY PURPOSE; NOR THAT THEIMPLEMENTATION OF SUCH CONTENTS WILL NOT INFRINGE ANY THIRD PARTY PATENTS,COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL ORCONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE DOCUMENT OR THE PERFORMANCEOR IMPLEMENTATION OF THE CONTENTS THEREOF.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to this document or its contents without specific, written prior permission. Title to copyright in this document will at all times remain with copyright holders.

© 2001-2005 (C) MetaStuff, Ltd. All Rights Reserved.

The following software may be included in this product: Retroweaver; Use of any of this software is governed by the terms of the license below:

© February 2004, Toby Reyelts

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. Neither the name of Toby Reyelts nor the names of his contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR

BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICTLIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

© 2003 Kohsuke Kawaguchi

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF

SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

© 2002,2003, Andy Clark. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment:

   "This product includes software developed by Andy Clark."

Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.

4. The names "CyberNeko" and "NekoHTML" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact andy@cyberneko.net.

5. Products derived from this software may not be called "CyberNeko", nor may "CyberNeko" appear in their name, without prior written permission of the author.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A

PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR OTHER CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

© 2001-2003 Thai Open Source Software Center Ltd

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the Thai Open Source Software Center Ltd nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" ANDANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIEDWARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AREDISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANYDIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ONANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THISSOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

© 2000-2003 Daisuke Okajima and Kohsuke Kawaguchi.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment:

   "This product includes software developed by Daisuke Okajima and Kohsuke Kawaguchi (http://relaxngcc.sf.net/)."

Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.

4. The names of the copyright holders must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact the copyright holders.

5. Products derived from this software may not be called "RELAXNGCC", nor may "RELAXNGCC" appear in their name, without prior written permission of the copyright holders.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

© 1994-2004 The XFree 86 Project, Inc. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

1. Redistributions of source code must retain the above copyright notice, this list of conditions, and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution, and in the same place and form as other copyright, license and disclaimer information.

3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment: "This product includes software developed by The XFree86 Project, Inc (http://www.xfree86.org/) and its contributors", in the same place and form as other third-party acknowledgments.

Alternately, this acknowledgment may appear in the software itself, in the same form and location as other such third-party acknowledgments.

4. Except as contained in this notice, the name of The XFree86 Project, Inc shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from TheXFree86 Project, Inc.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES,INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY ANDFITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE XFREE86PROJECT, INC OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; ORBUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER INCONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISINGIN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITYOF SUCH DAMAGE.

© 1990-2003 Info-ZIP. All rights reserved.

For the purposes of this copyright and license, "Info-ZIP" is defined as the following set of individuals:

Mark Adler, John Bush, Karl Davis, Harald Denker, Jean-Michel Dubois, Jean-loup Gailly, Hunter Goatley, Ian Gorman, Chris Herborth, Dirk Haase, Greg Hartwig, Robert Heath, Jonathan Hudson, Paul Kienitz, David Kirschbaum, Johnny Lee, Onno van der Linden, Igor Mandrichenko, Steve P. Miller, Sergio Monesi, Keith Owens, George Petrov, Greg Roelofs, Kai Uwe Rommel, Steve Salisbury, Dave Smith, Christian Spieler, Antoine Verheijen, Paul von Behren, Rich Wales, Mike White

This software is provided "as is," without warranty of any kind, express or implied. In no event shall Info-ZIP or its contributors be held liable for any direct, indirect, incidental, special or consequential damages arising out of the use of or inability to use this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. Redistributions of source code must retain the above copyright notice, definition, disclaimer, and this list of conditions.

2. Redistributions in binary form (compiled executables) must reproduce the above copyright notice, definition, disclaimer, and this list of conditions in documentation and/or other materials provided with the distribution. The sole exception to this condition is redistribution of a standard UnZipSFX binary (including SFXWiz) as part of a self-extracting archive; that is permitted without inclusion of this license, as long as the normal SFX banner has not been removed from the binary or disabled.

3. Altered versions--including, but not limited to, ports to new operating systems, existing ports with new graphical interfaces, and dynamic, shared, or static library versions--must be plainly marked as such and must not be misrepresented as being the original source. Such altered versions also must not be misrepresented as being Info-ZIP releases--including, but not limited to, labeling of the altered versions with the names "Info-ZIP" (or any variation thereof, including, but not limited to, different capitalizations), "Pocket UnZip," "WiZ" or "MacZip" without the explicit permission of Info-ZIP. Such altered versions are further prohibited from misrepresentative use of the Zip-Bugs or Info-ZIP e-mail addresses or of the Info-ZIP URL(s).

4. Info-ZIP retains the right to use the names "Info-ZIP," "Zip," "UnZip," "UnZipSFX," "WiZ," "Pocket UnZip," "Pocket Zip," and "MacZip" for its own source and binary releases.

- This software application may include JavaHelp version 2.0 third-party software. JavaHelp version 2.0 is distributed under the terms of the Sun Microsystems, Inc. Binary Code License Agreement and JAVAHELP™ VERSION 2.0 SUPPLEMENTAL LICENSE TERMS and is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the license for the specific language governing rights and limitations under the license. You can view a copy of the license at: Install\legal\sun_binary_javahelp_2.0.pdf (on Windows) and install.<vco>/legal/sun_binary_javahelp_2.0.pdf (on UNIX/Linux). Portions of this software may be subject to the GNU General Public License version 2 with Classpath Exception. You can view a copy of the GPLv2 with Classpath Exception at: Install\legal\gnu_gpl_2.0_classpath_ex.pdf (on Windows) and install.<vco>/legal/-gnu_gpl_2.0_classpath_ex.pdf (on UNIX/Linux). JavaHelp version 2.0 may be subject to the following copyrights:

  © 2006 Sun Microsystems, Inc. All Rights Reserved.

  Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

  - Redistribution of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

  - Redistribution in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

  Neither the name of Sun Microsystems, Inc. or the names of contributors may be used to endorse or promote products derived from this software without specific prior written permission.

  This software is provided "AS IS," without a warranty of any kind. ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE HEREBY EXCLUDED. SUN MICROSYSTEMS, INC. ("SUN") AND ITS LICENSORS SHALL NOT BE LIABLE FOR ANY DAMAGES SUFFERED BY LICENSEE AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THIS SOFTWARE OR ITS DERIVATIVES. IN NO EVENT WILL SUN OR ITS LICENSORS BE LIABLE FOR ANY LOST REVENUE, PROFIT OR DATA, OR FOR DIRECT, INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES, HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF

LIABILITY, ARISING OUT OF THE USE OF OR INABILITY TO USE THIS SOFTWARE, EVEN IF SUN HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

You acknowledge that this software is not designed, licensed or intended for use in the design, construction, operation or maintenance of any nuclear facility.

- This software application may include Java JRE (AIX) version 1.6 third-party software. Java JRE (AIX) version 1.6 is distributed under the terms of the IBM International License Agreement for Non-Warranted Programs and is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the license for the specific language governing rights and limitations under the license. You can view a copy of the license at: Install\legal\ibm_non_warranted.pdf (on Windows) and install.<vco>/legal/ibm_non_warranted.pdf (on UNIX/Linux). Portions of this software may be subject to the Apache License version 1.1. You can view a copy of the Apache License version 1.1 at: Install\legal\apache_1.1.pdf (on Windows) and install.<vco>/legal/apache_1.1.pdf (on UNIX/Linux). Portions of this software may be subject to the Apache License version 2.0. You can view a copy of the Apache License version 2.0 at: Install\legal\apache_2.0.pdf (on Windows) and install.vco/legal/apache_2.0.pdf (on UNIX/Linux). Portions of this software may be subject to the W3C® Software Notice and License. You can view a copy of the W3C® Software Notice and License at: Install\legal\w3c_2002.pdf (on Windows) and install.<vco>\legal\w3c_2002.pdf (on UNIX/Linux). Portions of this software may be subject to the Netscape Public License version 1.1. You can view a copy of the Netscape Public License version 1.1 at: Install\legal\netscape_1.1.pdf (on Windows) and install.<vco>/legal/netscape_1.1.pdf (on UNIX/Linux).

- This software application may include Java SE Runtime Environment version 6u18 third-party software. Java SE Runtime Environment version 6u18 is distributed under the terms of the Sun Microsystems, Inc. Binary Code License Agreement for the JAVA SE RUNTIME ENVIRONMENT (JRE) VERSION 6 and JAVAFX RUNTIME VERSION 1and is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the license for the specific language governing rights and limitations under the license. You can view a copy of the license at: <your_Mentor_Graphics_documentation_directory>/legal/sun_binary_JRE_6.pdf. Additional copyright notices and license terms applicable to portions of Java SE Runtime Environment version 6u18 can be found here: *<MIP location>*\JRE\THIRDPARTYLICENSEREADME.txt.

End-User License Agreement

The latest version of the End-User License Agreement is available on-line at:
www.mentor.com/eula

IMPORTANT INFORMATION

USE OF THIS SOFTWARE IS SUBJECT TO LICENSE RESTRICTIONS. CAREFULLY READ THIS LICENSE AGREEMENT BEFORE USING THE SOFTWARE. USE OF SOFTWARE INDICATES YOUR COMPLETE AND UNCONDITIONAL ACCEPTANCE OF THE TERMS AND CONDITIONS SET FORTH IN THIS AGREEMENT. ANY ADDITIONAL OR DIFFERENT PURCHASE ORDER TERMS AND CONDITIONS SHALL NOT APPLY.

END-USER LICENSE AGREEMENT ("Agreement")

This is a legal agreement concerning the use of Software (as defined in Section 2) between the company acquiring the license ("Customer"), and the Mentor Graphics entity that issued the corresponding quotation or, if no quotation was issued, the applicable local Mentor Graphics entity ("Mentor Graphics"). Except for license agreements related to the subject matter of this license agreement which are physically signed by Customer and an authorized representative of Mentor Graphics, this Agreement and the applicable quotation contain the parties' entire understanding relating to the subject matter and supersede all prior or contemporaneous agreements. If Customer does not agree to these terms and conditions, promptly return or, if received electronically, certify destruction of Software and all accompanying items within five days after receipt of Software and receive a full refund of any license fee paid.

1. **ORDERS, FEES AND PAYMENT.**

   1.1. To the extent Customer (or if and as agreed by Mentor Graphics, Customer's appointed third party buying agent) places and Mentor Graphics accepts purchase orders pursuant to this Agreement ("Order(s)"), each Order will constitute a contract between Customer and Mentor Graphics, which shall be governed solely and exclusively by the terms and conditions of this Agreement, any applicable addenda and the applicable quotation, whether or not these documents are referenced on the Order. Any additional or conflicting terms and conditions appearing on an Order will not be effective unless agreed in writing by an authorized representative of Customer and Mentor Graphics.

   1.2. Amounts invoiced will be paid, in the currency specified on the applicable invoice, within 30 days from the date of such invoice. Any past due invoices will be subject to the imposition of interest charges in the amount of one and one-half percent per month or the applicable legal rate currently in effect, whichever is lower. Prices do not include freight, insurance, customs duties, taxes or other similar charges, which Mentor Graphics will invoice separately. Unless provided with a certificate of exemption, Mentor Graphics will invoice Customer for all applicable taxes. Customer will make all payments free and clear of, and without reduction for, any withholding or other taxes; any such taxes imposed on payments by Customer hereunder will be Customer's sole responsibility. Notwithstanding anything to the contrary, if Customer appoints a third party to place purchase orders and/or make payments on Customer's behalf, Customer shall be liable for payment under such orders in the event of default by the third party.

   1.3. All products are delivered FCA factory (Incoterms 2000) except Software delivered electronically, which shall be deemed delivered when made available to Customer for download. Mentor Graphics retains a security interest in all products delivered under this Agreement, to secure payment of the purchase price of such products, and Customer agrees to sign any documents that Mentor Graphics determines to be necessary or convenient for use in filing or perfecting such security interest. Mentor Graphics' delivery of Software by electronic means is subject to Customer's provision of both a primary and an alternate e-mail address.

2. **GRANT OF LICENSE.** The software installed, downloaded, or otherwise acquired by Customer under this Agreement, including any updates, modifications, revisions, copies, documentation and design data ("Software") are copyrighted, trade secret and confidential information of Mentor Graphics or its licensors, who maintain exclusive title to all Software and retain all rights not expressly granted by this Agreement. Mentor Graphics grants to Customer, subject to payment of applicable license fees, a nontransferable, nonexclusive license to use Software solely: (a) in machine-readable, object-code form; (b) for Customer's internal business purposes; (c) for the term; and (d) on the computer hardware and at the site authorized by Mentor Graphics. A site is restricted to a one-half mile (800 meter) radius. Customer may have Software temporarily used by an employee for telecommuting purposes from locations other than a Customer office, such as the employee's residence, an airport or hotel, provided that such employee's primary place of employment is the site where the Software is authorized for use. Mentor Graphics' standard policies and programs, which vary depending on Software, license fees paid or services purchased, apply to the following: (a) relocation of Software; (b) use of Software, which may be limited, for example, to execution of a single session by a single user on the authorized hardware or for a restricted period of time (such limitations may be technically implemented through the use of authorization codes or similar devices); and (c) support services provided, including eligibility to receive telephone support, updates, modifications, and revisions. For the avoidance of doubt, if Customer requests any change or enhancement to Software, whether in the course of receiving support or consulting services, evaluating Software or

otherwise, any inventions, product improvements, modifications or developments made by Mentor Graphics (at Mentor Graphics' sole discretion) will be the exclusive property of Mentor Graphics.

3. **ESC SOFTWARE.** If Customer purchases a license to use development or prototyping tools of Mentor Graphics' Embedded Software Channel ("ESC"), Mentor Graphics grants to Customer a nontransferable, nonexclusive license to reproduce and distribute executable files created using ESC compilers, including the ESC run-time libraries distributed with ESC C and C++ compiler Software that are linked into a composite program as an integral part of Customer's compiled computer program, provided that Customer distributes these files only in conjunction with Customer's compiled computer program. Mentor Graphics does NOT grant Customer any right to duplicate, incorporate or embed copies of Mentor Graphics' real-time operating systems or other embedded software products into Customer's products or applications without first signing or otherwise agreeing to a separate agreement with Mentor Graphics for such purpose.

4. **BETA CODE.**

   4.1. Portions or all of certain Software may contain code for experimental testing and evaluation ("Beta Code"), which may not be used without Mentor Graphics' explicit authorization. Upon Mentor Graphics' authorization, Mentor Graphics grants to Customer a temporary, nontransferable, nonexclusive license for experimental use to test and evaluate the Beta Code without charge for a limited period of time specified by Mentor Graphics. This grant and Customer's use of the Beta Code shall not be construed as marketing or offering to sell a license to the Beta Code, which Mentor Graphics may choose not to release commercially in any form.

   4.2. If Mentor Graphics authorizes Customer to use the Beta Code, Customer agrees to evaluate and test the Beta Code under normal conditions as directed by Mentor Graphics. Customer will contact Mentor Graphics periodically during Customer's use of the Beta Code to discuss any malfunctions or suggested improvements. Upon completion of Customer's evaluation and testing, Customer will send to Mentor Graphics a written evaluation of the Beta Code, including its strengths, weaknesses and recommended improvements.

   4.3. Customer agrees that any written evaluations and all inventions, product improvements, modifications or developments that Mentor Graphics conceived or made during or subsequent to this Agreement, including those based partly or wholly on Customer's feedback, will be the exclusive property of Mentor Graphics. Mentor Graphics will have exclusive rights, title and interest in all such property. The provisions of this Subsection 4.3 shall survive termination of this Agreement.

5. **RESTRICTIONS ON USE.**

   5.1. Customer may copy Software only as reasonably necessary to support the authorized use. Each copy must include all notices and legends embedded in Software and affixed to its medium and container as received from Mentor Graphics. All copies shall remain the property of Mentor Graphics or its licensors. Customer shall maintain a record of the number and primary location of all copies of Software, including copies merged with other software, and shall make those records available to Mentor Graphics upon request. Customer shall not make Software available in any form to any person other than Customer's employees and on-site contractors, excluding Mentor Graphics competitors, whose job performance requires access and who are under obligations of confidentiality. Customer shall take appropriate action to protect the confidentiality of Software and ensure that any person permitted access does not disclose or use it except as permitted by this Agreement. Log files, data files, rule files and script files generated by or for the Software (collectively "Files") constitute and/or include confidential information of Mentor Graphics. Customer may share Files with third parties excluding Mentor Graphics competitors provided that the confidentiality of such Files is protected by written agreement at least as well as Customer protects other information of a similar nature or importance, but in any case with at least reasonable care. Standard Verification Rule Format ("SVRF") and Tcl Verification Format ("TVF") mean Mentor Graphics' proprietary syntaxes for expressing process rules. Customer may use Files containing SVRF or TVF only with Mentor Graphics products. Under no circumstances shall Customer use Software or allow its use for the purpose of developing, enhancing or marketing any product that is in any way competitive with Software, or disclose to any third party the results of, or information pertaining to, any benchmark. Except as otherwise permitted for purposes of interoperability as specified by applicable and mandatory local law, Customer shall not reverse-assemble, reverse-compile, reverse-engineer or in any way derive from Software any source code.

   5.2. Customer may not sublicense, assign or otherwise transfer Software, this Agreement or the rights under it, whether by operation of law or otherwise ("attempted transfer"), without Mentor Graphics' prior written consent and payment of Mentor Graphics' then-current applicable transfer charges. Any attempted transfer without Mentor Graphics' prior written consent shall be a material breach of this Agreement and may, at Mentor Graphics' option, result in the immediate termination of the Agreement and licenses granted under this Agreement. The terms of this Agreement, including without limitation the licensing and assignment provisions, shall be binding upon Customer's permitted successors in interest and assigns.

   5.3. The provisions of this Section 5 shall survive the termination of this Agreement.

6. **SUPPORT SERVICES.** To the extent Customer purchases support services for Software, Mentor Graphics will provide Customer with available updates and technical support for the Software which are made generally available by Mentor Graphics as part of such services in accordance with Mentor Graphics' then current End-User Software Support Terms located at http://supportnet.mentor.com/about/legal/.

7. **LIMITED WARRANTY.**

7.1. Mentor Graphics warrants that during the warranty period its standard, generally supported Software, when properly installed, will substantially conform to the functional specifications set forth in the applicable user manual. Mentor Graphics does not warrant that Software will meet Customer's requirements or that operation of Software will be uninterrupted or error free. The warranty period is 90 days starting on the 15th day after delivery or upon installation, whichever first occurs. Customer must notify Mentor Graphics in writing of any nonconformity within the warranty period. For the avoidance of doubt, this warranty applies only to the initial shipment of Software under the applicable Order and does not renew or reset, by way of example, with the delivery of (a) Software updates or (b) authorization codes or alternate Software under a transaction involving Software re-mix. This warranty shall not be valid if Software has been subject to misuse, unauthorized modification or improper installation. MENTOR GRAPHICS' ENTIRE LIABILITY AND CUSTOMER'S EXCLUSIVE REMEDY SHALL BE, AT MENTOR GRAPHICS' OPTION, EITHER (A) REFUND OF THE PRICE PAID UPON RETURN OF SOFTWARE TO MENTOR GRAPHICS OR (B) MODIFICATION OR REPLACEMENT OF SOFTWARE THAT DOES NOT MEET THIS LIMITED WARRANTY, PROVIDED CUSTOMER HAS OTHERWISE COMPLIED WITH THIS AGREEMENT. MENTOR GRAPHICS MAKES NO WARRANTIES WITH RESPECT TO: (A) SERVICES; (B) SOFTWARE WHICH IS LICENSED AT NO COST; OR (C) BETA CODE; ALL OF WHICH ARE PROVIDED "AS IS."

7.2. THE WARRANTIES SET FORTH IN THIS SECTION 7 ARE EXCLUSIVE. NEITHER MENTOR GRAPHICS NOR ITS LICENSORS MAKE ANY OTHER WARRANTIES EXPRESS, IMPLIED OR STATUTORY, WITH RESPECT TO SOFTWARE OR OTHER MATERIAL PROVIDED UNDER THIS AGREEMENT. MENTOR GRAPHICS AND ITS LICENSORS SPECIFICALLY DISCLAIM ALL IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT OF INTELLECTUAL PROPERTY.

8. **LIMITATION OF LIABILITY.** EXCEPT WHERE THIS EXCLUSION OR RESTRICTION OF LIABILITY WOULD BE VOID OR INEFFECTIVE UNDER APPLICABLE LAW, IN NO EVENT SHALL MENTOR GRAPHICS OR ITS LICENSORS BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES (INCLUDING LOST PROFITS OR SAVINGS) WHETHER BASED ON CONTRACT, TORT OR ANY OTHER LEGAL THEORY, EVEN IF MENTOR GRAPHICS OR ITS LICENSORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL MENTOR GRAPHICS' OR ITS LICENSORS' LIABILITY UNDER THIS AGREEMENT EXCEED THE AMOUNT PAID BY CUSTOMER FOR THE SOFTWARE OR SERVICE GIVING RISE TO THE CLAIM. IN THE CASE WHERE NO AMOUNT WAS PAID, MENTOR GRAPHICS AND ITS LICENSORS SHALL HAVE NO LIABILITY FOR ANY DAMAGES WHATSOEVER. THE PROVISIONS OF THIS SECTION 8 SHALL SURVIVE THE TERMINATION OF THIS AGREEMENT.

9. **LIFE ENDANGERING APPLICATIONS.** NEITHER MENTOR GRAPHICS NOR ITS LICENSORS SHALL BE LIABLE FOR ANY DAMAGES RESULTING FROM OR IN CONNECTION WITH THE USE OF SOFTWARE IN ANY APPLICATION WHERE THE FAILURE OR INACCURACY OF THE SOFTWARE MIGHT RESULT IN DEATH OR PERSONAL INJURY. THE PROVISIONS OF THIS SECTION 9 SHALL SURVIVE THE TERMINATION OF THIS AGREEMENT.

10. **INDEMNIFICATION.** CUSTOMER AGREES TO INDEMNIFY AND HOLD HARMLESS MENTOR GRAPHICS AND ITS LICENSORS FROM ANY CLAIMS, LOSS, COST, DAMAGE, EXPENSE OR LIABILITY, INCLUDING ATTORNEYS' FEES, ARISING OUT OF OR IN CONNECTION WITH CUSTOMER'S USE OF SOFTWARE AS DESCRIBED IN SECTION 9. THE PROVISIONS OF THIS SECTION 10 SHALL SURVIVE THE TERMINATION OF THIS AGREEMENT.

11. **INFRINGEMENT.**

11.1. Mentor Graphics will defend or settle, at its option and expense, any action brought against Customer in the United States, Canada, Japan, or member state of the European Union which alleges that any standard, generally supported Software product infringes a patent or copyright or misappropriates a trade secret in such jurisdiction. Mentor Graphics will pay any costs and damages finally awarded against Customer that are attributable to the action. Customer understands and agrees that as conditions to Mentor Graphics' obligations under this section Customer must: (a) notify Mentor Graphics promptly in writing of the action; (b) provide Mentor Graphics all reasonable information and assistance to settle or defend the action; and (c) grant Mentor Graphics sole authority and control of the defense or settlement of the action.

11.2. If a claim is made under Subsection 11.1 Mentor Graphics may, at its option and expense, (a) replace or modify Software so that it becomes noninfringing, or (b) procure for Customer the right to continue using Software, or (c) require the return of Software and refund to Customer any license fee paid, less a reasonable allowance for use.

11.3. Mentor Graphics has no liability to Customer if the claim is based upon: (a) the combination of Software with any product not furnished by Mentor Graphics; (b) the modification of Software other than by Mentor Graphics; (c) the use of other than a current unaltered release of Software; (d) the use of Software as part of an infringing process; (e) a product that Customer makes, uses, or sells; (f) any Beta Code; (g) any Software provided by Mentor Graphics' licensors who do not provide such indemnification to Mentor Graphics' customers; or (h) infringement by Customer that is deemed willful. In the case of (h), Customer shall reimburse Mentor Graphics for its reasonable attorney fees and other costs related to the action.

11.4. THIS SECTION IS SUBJECT TO SECTION 8 ABOVE AND STATES THE ENTIRE LIABILITY OF MENTOR GRAPHICS AND ITS LICENSORS AND CUSTOMER'S SOLE AND EXCLUSIVE REMEDY WITH RESPECT TO ANY ALLEGED PATENT OR COPYRIGHT INFRINGEMENT OR TRADE SECRET MISAPPROPRIATION BY ANY SOFTWARE LICENSED UNDER THIS AGREEMENT.

12. **TERM.**

12.1. This Agreement remains effective until expiration or termination. This Agreement will immediately terminate upon notice if you exceed the scope of license granted or otherwise fail to comply with the provisions of Sections 2, 3, or 5. For any other material breach under this Agreement, Mentor Graphics may terminate this Agreement upon 30 days written notice if you are in material breach and fail to cure such breach within the 30 day notice period. If a Software license was provided for limited term use, such license will automatically terminate at the end of the authorized term.

12.2. Mentor Graphics may terminate this Agreement immediately upon notice in the event Customer is insolvent or subject to a petition for (a) the appointment of an administrator, receiver or similar appointee; or (b) winding up, dissolution or bankruptcy.

12.3. Upon termination of this Agreement or any Software license under this Agreement, Customer shall ensure that all use of the affected Software ceases, and shall return it to Mentor Graphics or certify its deletion and destruction, including all copies, to Mentor Graphics' reasonable satisfaction.

12.4. Termination of this Agreement or any Software license granted hereunder will not affect Customer's obligation to pay for products shipped or licenses granted prior to the termination, which amounts shall immediately be payable at the date of termination.

13. **EXPORT.** Software is subject to regulation by local laws and United States government agencies, which prohibit export or diversion of certain products, information about the products, and direct products of the products to certain countries and certain persons. Customer agrees that it will not export Software or a direct product of Software in any manner without first obtaining all necessary approval from appropriate local and United States government agencies.

14. **U.S. GOVERNMENT LICENSE RIGHTS.** Software was developed entirely at private expense. All Software is commercial computer software within the meaning of the applicable acquisition regulations. Accordingly, pursuant to US FAR 48 CFR 12.212 and DFAR 48 CFR 227.7202, use, duplication and disclosure of the Software by or for the U.S. Government or a U.S. Government subcontractor is subject solely to the terms and conditions set forth in this Agreement, except for provisions which are contrary to applicable mandatory federal laws.

15. **THIRD PARTY BENEFICIARY.** Mentor Graphics Corporation, Mentor Graphics (Ireland) Limited, Microsoft Corporation and other licensors may be third party beneficiaries of this Agreement with the right to enforce the obligations set forth herein.

16. **REVIEW OF LICENSE USAGE.** Customer will monitor the access to and use of Software. With prior written notice and during Customer's normal business hours, Mentor Graphics may engage an internationally recognized accounting firm to review Customer's software monitoring system and records deemed relevant by the internationally recognized accounting firm to confirm Customer's compliance with the terms of this Agreement or U.S. or other local export laws. Such review may include FLEXlm or FLEXnet (or successor product) report log files that Customer shall capture and provide at Mentor Graphics' request. Customer shall make records available in electronic format and shall fully cooperate with data gathering to support the license review. Mentor Graphics shall bear the expense of any such review unless a material non-compliance is revealed. Mentor Graphics shall treat as confidential information all information gained as a result of any request or review and shall only use or disclose such information as required by law or to enforce its rights under this Agreement. The provisions of this section shall survive the termination of this Agreement.

17. **CONTROLLING LAW, JURISDICTION AND DISPUTE RESOLUTION.** The owners of the Mentor Graphics intellectual property rights licensed under this Agreement are located in Ireland and the United States. To promote consistency around the world, disputes shall be resolved as follows: This Agreement shall be governed by and construed under the laws of the State of Oregon, USA, if Customer is located in North or South America, and the laws of Ireland if Customer is located outside of North or South America. All disputes arising out of or in relation to this Agreement shall be submitted to the exclusive jurisdiction of Portland, Oregon when the laws of Oregon apply, or Dublin, Ireland when the laws of Ireland apply. Notwithstanding the foregoing, all disputes in Asia (except for Japan) arising out of or in relation to this Agreement shall be resolved by arbitration in Singapore before a single arbitrator to be appointed by the Chairman of the Singapore International Arbitration Centre ("SIAC") to be conducted in the English language, in accordance with the Arbitration Rules of the SIAC in effect at the time of the dispute, which rules are deemed to be incorporated by reference in this section. This section shall not restrict Mentor Graphics' right to bring an action against Customer in the jurisdiction where Customer's place of business is located. The United Nations Convention on Contracts for the International Sale of Goods does not apply to this Agreement.

18. **SEVERABILITY.** If any provision of this Agreement is held by a court of competent jurisdiction to be void, invalid, unenforceable or illegal, such provision shall be severed from this Agreement and the remaining provisions will remain in full force and effect.

19. **MISCELLANEOUS.** This Agreement contains the parties' entire understanding relating to its subject matter and supersedes all prior or contemporaneous agreements, including but not limited to any purchase order terms and conditions. Some Software may contain code distributed under a third party license agreement that may provide additional rights to Customer. Please see the applicable Software documentation for details. This Agreement may only be modified in writing by authorized representatives of the parties. All notices required or authorized under this Agreement must be in writing and shall be sent to the person who signs this Agreement, at the address specified below. Waiver of terms or excuse of breach must be in writing and shall not constitute subsequent consent, waiver or excuse.