

SIM EXEC

JADE

**INSTALLATION
GUIDE**



GSE POWER SYSTEMS
SIMULATION AND TRAINING SOLUTIONS

SimExec™ & JADE Installation Guide Version 4.1

Product Installation Guide

Copyright © 2012 (guide and software) by GSE Power Systems, Inc. All rights reserved.

GSE Systems makes no representations or warranties, either expressed or implied, by or with respect to anything in this document, and shall not be liable for any implied warranties of merchantability or fitness for a particular purpose or for any indirect, special or consequential damages.

This guide and the software described in this guide are furnished to the user under license by GSE Power Systems, Inc. and use thereof is subject to applicable U.S. and international law. Neither this guide nor the software described in this guide may be reproduced, transmitted or disclosed to third parties, in whole or in part, in any form or by any manner, electronic or mechanical, without the express written consent of GSE Power Systems, Inc., except to the extent provided for by applicable license. GSE Power Systems, Inc. reserves the right to make modifications to this guide and the software it describes at any time, without notice or obligation. This guide may contain names used to illustrate features and capabilities of the software. Any similarities to the names of actual individuals or companies are purely coincidental.

GSE Power Systems, the GSE Systems logo, and SimeExec are trademarks of GSE Systems, Inc. Microsoft and Windows Operating Systems are trademarks of Microsoft Corporation. All other brand and product names are trademarks or registered trademarks of their respective owners and are for reference purposes only.

GSE Power Systems, Inc.

1332 Londontown Blvd., Suite 200 • Sykesville, Maryland 21784 USA

TELEPHONE: +1 410.970.7800 (U.S. and International) • 1.800.638.7912 (U.S. only)

FAX: +1 410.970.7999 • **E-MAIL:** info@gses.com

WORLD WIDE WEB: <http://www.gses.com/>

SimExec™ & JADE™ Installation Guide

Document No. SIMEXEC & JADE IN.07.V4.1A

Table of Contents

1. Overview	1-1
1.1 Naming Conventions.....	1-2
1.2 Contacting GSE Power Systems, Inc.....	1-2
2. Quick Reference Installation Check List.....	2-1
3. Hardware Requirements.....	3-1
3.1 CPU	3-2
3.2 MEMORY	3-2
3.3 HARD DISK	3-2
3.4 Graphics Interface.....	3-2
3.5 USB Dongle (HASP)	3-2
4. Software Requirements.....	4-1
4.1 Windows Operating Systems	4-2
4.2 Microsoft Visual Studio.....	4-2
4.3 Intel FORTRAN Compiler.....	4-2
5. SimExec™ Installation.....	5-1
5.1 Installing SimExec.....	5-2
6. SimExec Post Installation	6-1
6.1 Integrating Compiler environment with SimExec.....	6-2
6.1.1 The Environment variables for Visual Studio- (2010 Example).....	6-3
6.1.2 The Environment variables for Intel-FORTRAN - (2011 Example)	6-3
6.2 Customizing the Environment Variables for SimExec	6-5
6.3 Customizing S3ENV - the SimExec-Configuration-files	6-6
7. JADE™ Installation.....	7-1
7.1 Installing JADE.....	7-2
8. JADE Post Installation	8-1
9. JStation Post Installation	9-1
9.1 Customizing the SimExec Environment Variables for Activating the Servers ..	9-2
9.2 Customizing the Project Name and Server Computer Name	9-2
9.3 Configuring jstation.properties	9-2
10. JTopmeret Post Installation	10-1
11. Frequently Asked Questions (FAQs).....	11-1
11.1 MSVCRT.LIB Not Found.....	11-2
11.2 Cannot install SimExec or JADE on a Substituted Drive.....	11-2
11.2.1 Using the Command Prompt Window	11-2
11.3 Install Multiple JADE Versions:	11-3

11.3.1	Using Windows Explorer to Map Network Drive	11-3
11.4	Running JADE without Compilers Installed	11-5
11.5	Microsoft Visual Studio 2010 Not Installed	11-5
A.	Appendix A: Optional Layered Products	A-1
A.1	Visual Source Safe	A-1
A.1.1	Installing Visual Source Safe	A-1
A.1.2	Customizing SimExec Configuration for VSS.....	A-1
A.2	Using SimExec to access VSS	A-2
B.	Appendix B: Network Dongle.....	B-1
C.	Appendix C: vcproj90.tmpl.....	C-1
D.	Appendix D: Microsoft Windows Settings	D-1
D.1	Data Execution Prevention	D-1
D.2	Microsoft Windows Server 2008 R2:.....	D-2
E.	Appendix E: Compiler Paths for Setenv File	E-1
E.1	Visual Basic Compilers	E-1
E.2	Intel FORTAN Compilers	E-3

1. Overview

The Software distribution for GSE Power simulators is made up of two major parts and contained on two separate independently released CDs known as SimExec and JADE. This document details both product installation procedures on the Microsoft Windows Operating Systems. An installation check list is included as a quick reference.

This document also includes an Appendix where some of the setup files can be copied and used in a system.

In This Chapter

- Naming Conventions
- Contacting GSE Power Systems, Inc.

1.1 Naming Conventions

Com Keystype	Toolbar selections, Menu name, Menu selections, and buttons are indicated in bold type. For example, choose Print on the File menu.
<i>Italic type</i>	Placeholders for information that you must provide. For example, if you are directed to type <i>filename</i> , you should type the actual name for a file instead of the word shown in italic type (Body font italicized). This is also used for the name of the book and filename.
<u>CRTFont</u> type	Words or characters that you type exactly as they appear, as well as examples of text box syntax, source code, or display messages. For example, <u>Run MODEL</u> .
KEYS type	Keys on the alphanumeric keyboard, such as ENTER or CTRL+ESC are indicated with all capital letters.

1.2 Contacting GSE Power Systems, Inc.

If you have a specific question not addressed in this guide, contact GSE Power Systems.

Address: GSE Power Systems, Inc.
1332 Londontown Blvd., Suite 200
Sykesville, Maryland 21784 USA

Telephone: +1 410.970.7800 Fax: +1 410.970.7997
1.800.638.7912 (U.S. only)

E-mail: info@gses.com Web page: <http://www.gses.com>

2. Quick Reference Installation Check List

Note: depending on the Operating System computer reboots may be necessary between steps to ensure complete installation.

1. Be sure system meets hardware requirements listed below
2. Install Microsoft Windows Operating system and apply the latest updates
3. Install Microsoft Office and apply the latest updates
4. Install Microsoft Visual Studio
5. Install the Intel Fortran Compiler
6. Install GSE SimExec
7. Perform SimExec Post Installation Instructions if necessary
8. Install GSE JADE
9. Perform JADE Post Installation Instructions if necessary
10. Finally, ensure GSE Dongle is in place in order to run the Power Simulator

3. Hardware Requirements

In This Chapter

- CPU
- MEMORY
- HARD DISK
- Graphics Interface
- USB Dongle (HASP)

3.1 CPU

The CPU requirement depends on the complexity of the simulation-models. The nuclear-simulation will require Intel-Xeon with multiple processors. 64 bit processors are also supported and recommended for best performance. GSE has found that improved modeling performance can be realized by utilizing CPUs with clock speeds > 3GHz and with the power management bios setting set to “Max Performance”.

GSE is unaware of any specific problems associated with equivalent AMD processors, however very limited runtime has been recorded.

3.2 MEMORY

The memory requirement for SimExec and JADE depend on the size of the simulation-models and the related tasks. The 4GB memory is recommended for the 32-bit systems; 8GB or higher for the 64-bit systems; memory should be installed in 3 GB increments if the motherboard supports tri-channel DDR3 memory, or 12 GB for 64-bit systems is recommended in this case. Best memory throughput can also be gained by utilizing Single Ranked RDIMMS.

3.3 HARD DISK

The scope and the size of the simulation will ultimately determine the size of the hard disk. A minimum of 250GB hard disk is required, however GSE recommends two 500 GB Serial Attached SCSI (SAS) hard drives for improved performance and extra storage capacity. High RPM disk drives as well as solid state RAM disks will improve performance.

3.4 Graphics Interface

A mid-grade workstation card based on ATI or NVidia graphics chips is required. The cards should have a minimum of 512 MB of dedicated graphics memory. Careful attention must be paid to the intended use of the JADE graphics, specifically whether paged or stitched graphics are desired. The stitched graphics requires more graphics memory, so 768 MB or more video memory is recommended.

3.5 USB Dongle (HASP)

GSE Power Simulation software undergoes a validation process at runtime, for which a USB hardware dongle is required. The software looks for this dongle to be in place periodically and will shutdown the application if it is no longer in place after a couple of retries.

As an option GSE can install a “network” dongle for concurrent use by computers on the same network. A *NETHASP.INI* file is used to specify where the network dongle is located.

The appendix makes reference to this setup.

4. Software Requirements

- Workstation - Windows XP SP3 (x86) or greater
- Server – Windows Server 2003 or greater
- Microsoft Office 2003 or greater
 - Configuration Management System (CMS) requires Microsoft Access
 - Intel FORTRAN-Compiler
 - The FORTRAN-Compiler is used to compile the models.
- Visual Studio (C-Compiler)
 - C-Compiler is used to build the Executives - executables.
- Installation of these compilers is strongly recommended before installing SimExec.

In This Chapter

- Windows Operating Systems
- Microsoft Visual Studio
- Intel FORTRAN Compiler

4.1 Windows Operating Systems

GSE supports Windows XP running Service Pack (SP3) or greater. Windows Server 2003 or greater is also supported. Please apply up-to-date patches from the Microsoft Update web-site.

4.2 Microsoft Visual Studio

Install Microsoft Visual Studio. Microsoft Visual Studio 2005 versions and higher are supported. Please install Visual Studio before installing FORTRAN-Compiler. Follow the vendor-supplied installation procedures to install. This product is normally installed on the same disk drive as the operating system. Newer versions of Intel Fortran may not be compatible with older versions of Visual Studio.

NOTE: Please install Visual Studio before Installing FORTRAN-compiler

4.3 Intel FORTRAN Compiler

Install Intel-FORTRAN compiler. Intel FORTRAN-Compiler version 10 and higher are supported. Follow the vendor-supplied installation procedures to install. This product is normally installed on the same disk drive as the operating system.

NOTE: Please make note of the installed compiler versions as that will be needed when installing SimExec such that the compiler directory paths are setup correctly.

5. SimExec™ Installation

In This Chapter

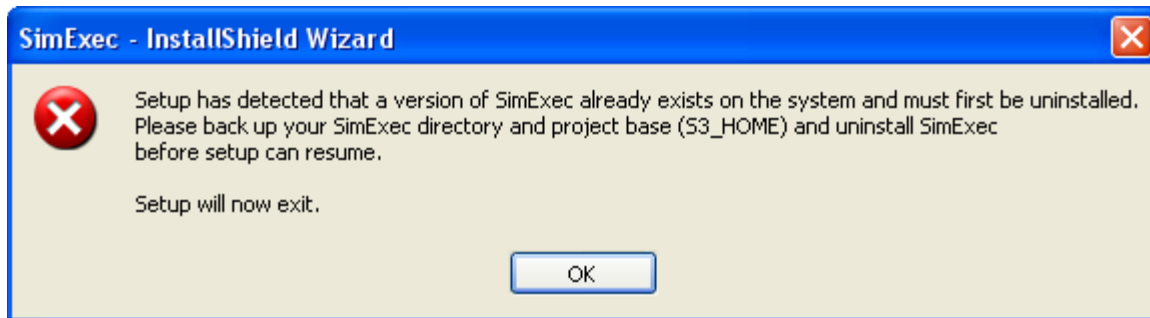
- Installing SimExec version 4.4.2 or greater

5.1 Installing SimExec

Insert SimExec-Installation-CD-ROM in the CD-ROM-Drive and follow the recommended sequence shown below:

The SimExec installation-CD-ROM will automatically start the installation. If it does not start, run the *setup.exe* from the CD-ROM.

NOTE: If a previous version of SimExec is installed on your machine, you may get the following error message:



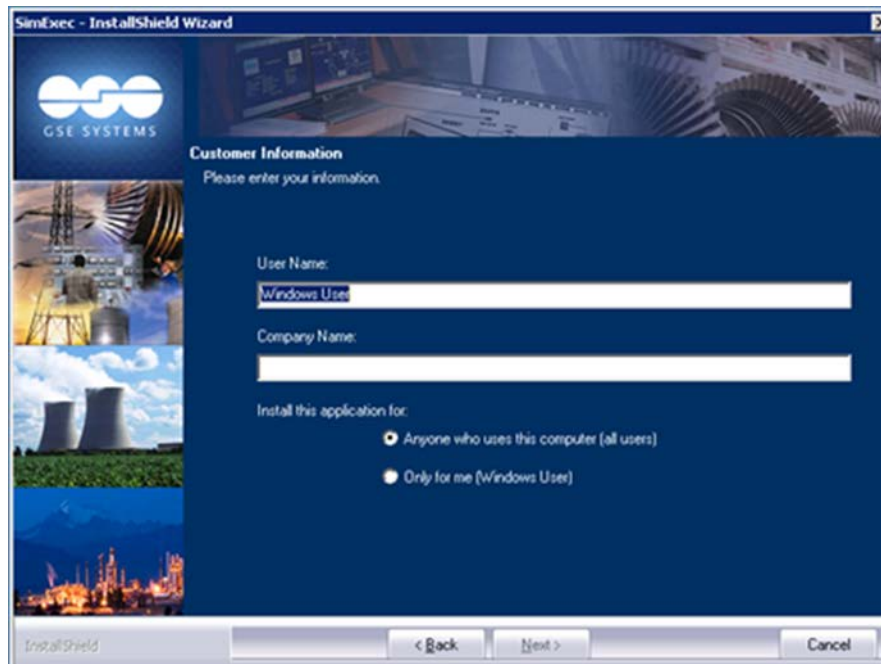
If this occurs, you must uninstall SimExec before you can proceed with SimExec 4.4 installation. To protect project settings and information, you may want to backup your SimExec and project base (S3_HOME) before uninstalling SimExec. After you uninstall the previous version of SimExec, run *setup.exe* from the CD_ROM.

NOTE: The requirement to configure Engineering Units as part of SimExec installation is removed, as of version 4.4.1

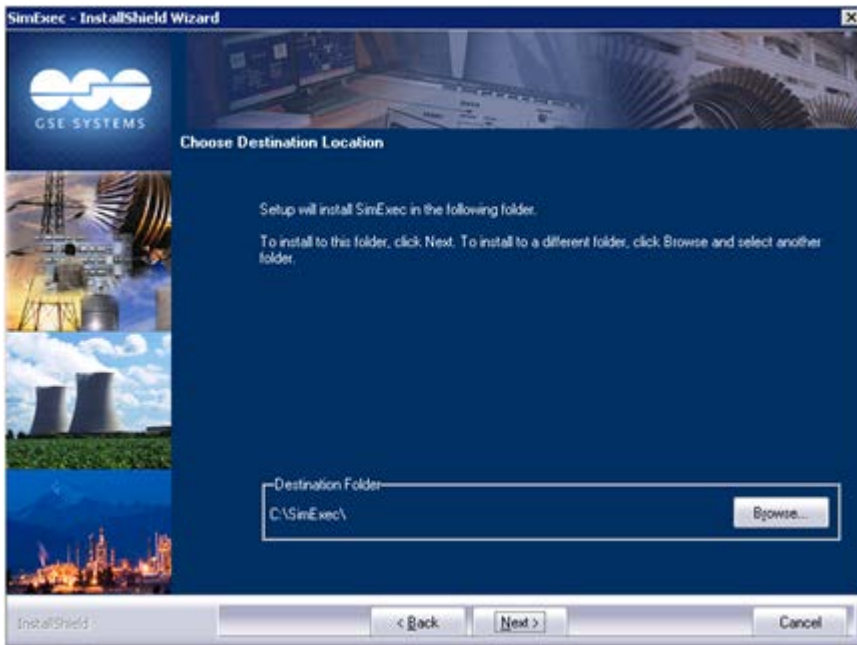
1. Click **Next**



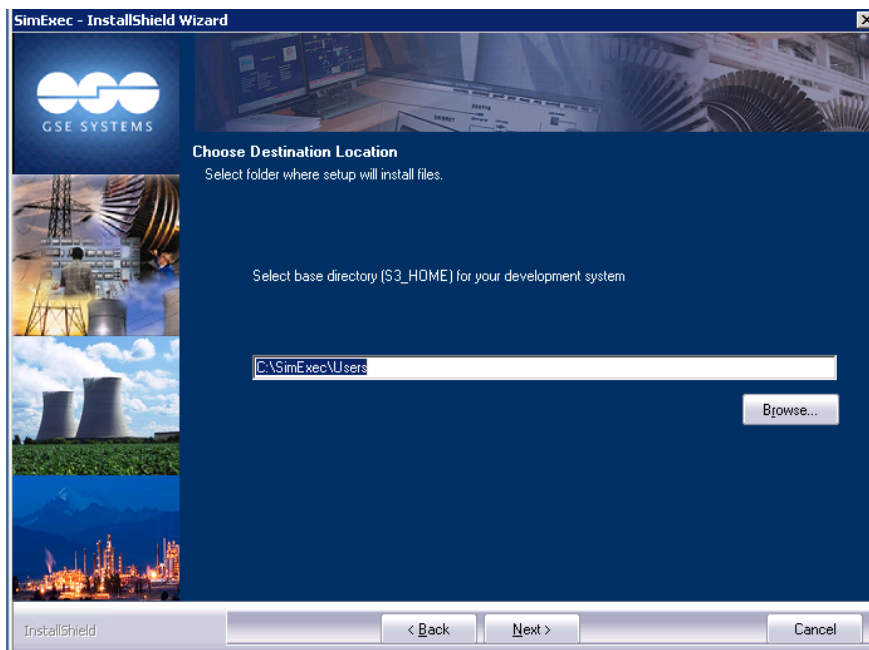
2. Agree to the end-user license agreement by clicking **Yes**.



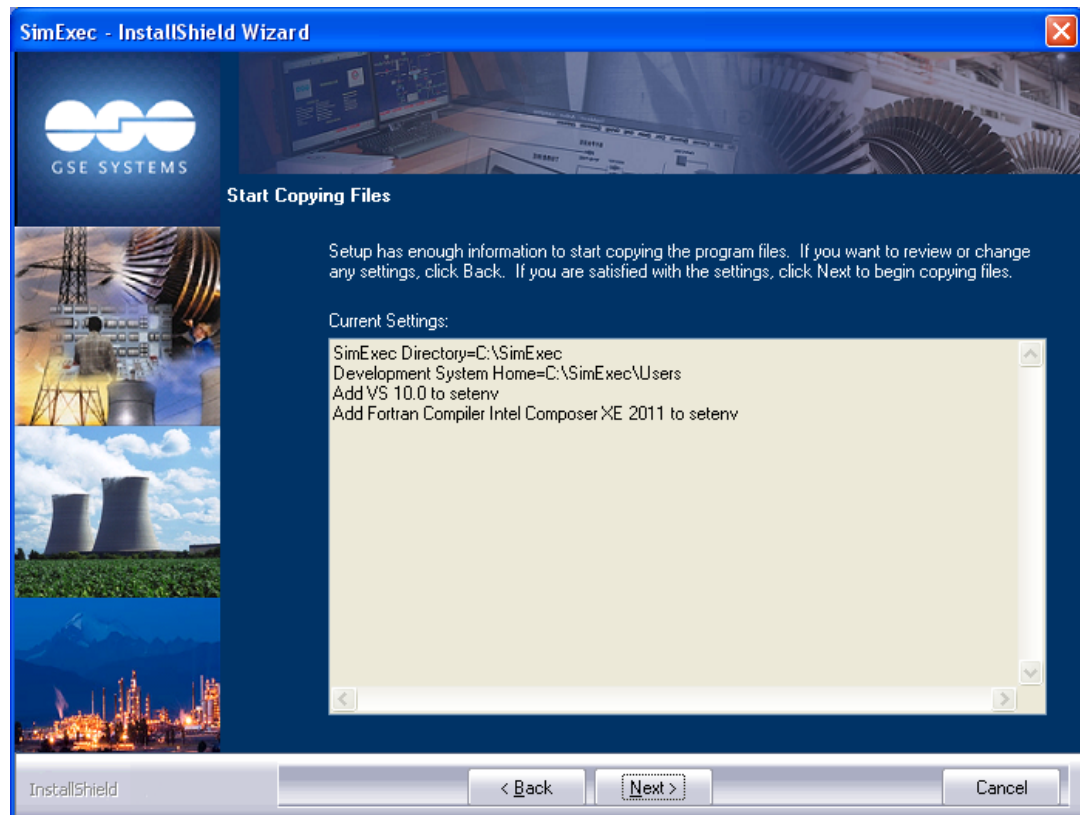
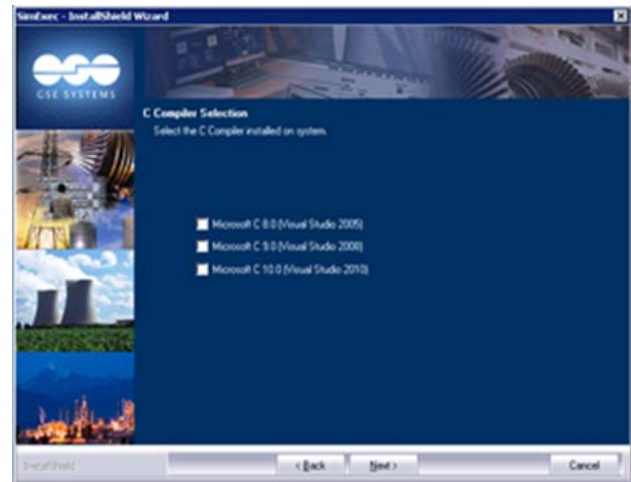
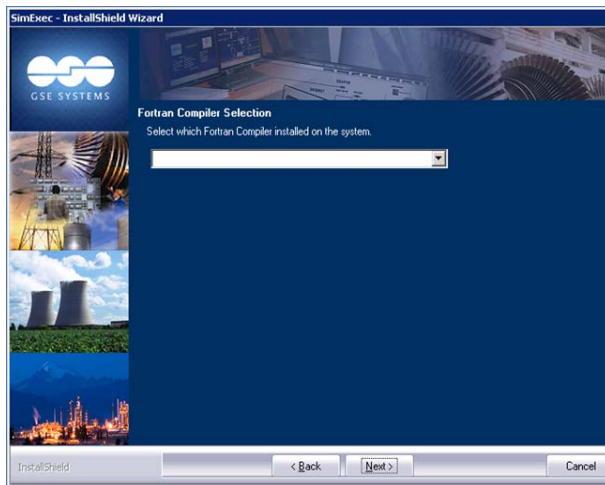
3. Enter a User Name and Company, use the default radio button setting, and then click **Next**.



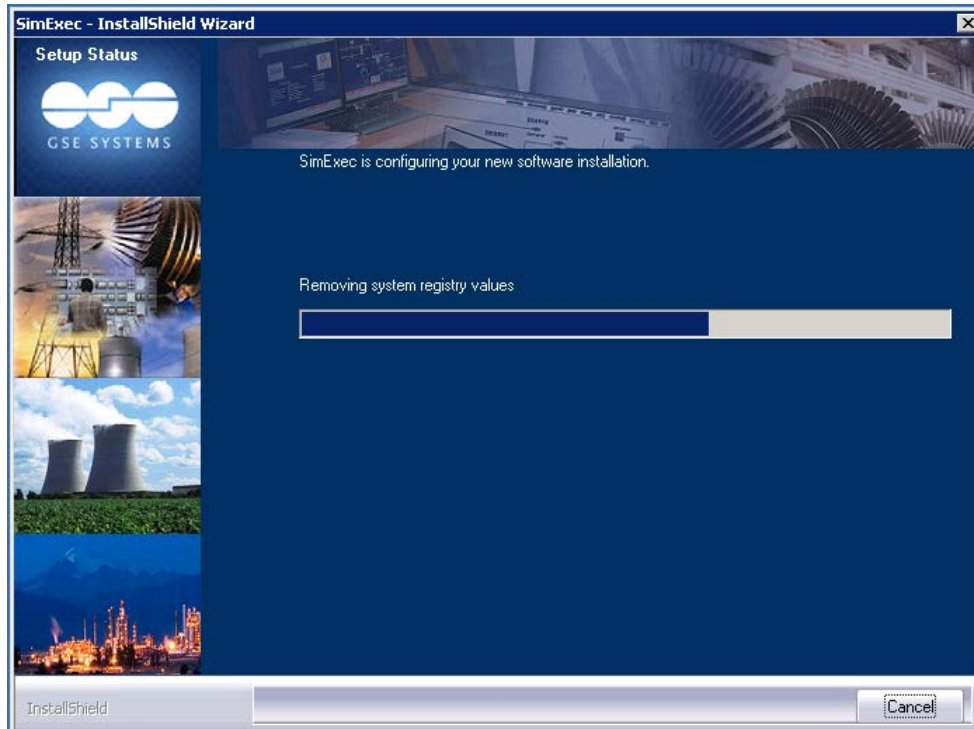
4. Install SimExec to a Disk Drive of your choice. To change the default click the **Browse** button and enter a new drive letter. If more than one disk drive is available then install the software on its own drive. Drive letter must not be substituted drive (see FAQ **section 11**). Click **Next**



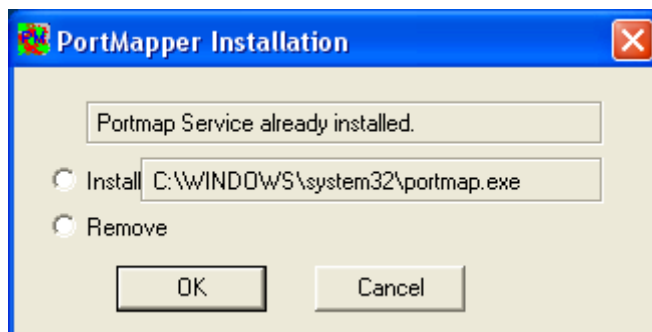
5. Choose a directory for the User data location and access. Modify as desired and click **Next**.



6. Select which compiler versions are installed on the system, in order to correctly configure files needed by SimExec. Select none to use current environment variables from a previous installation (you may need to configure SimExec files by hand during the post-installation procedure). After making your selection, click **Next**.
7. If satisfied with the current settings, click **Next**.



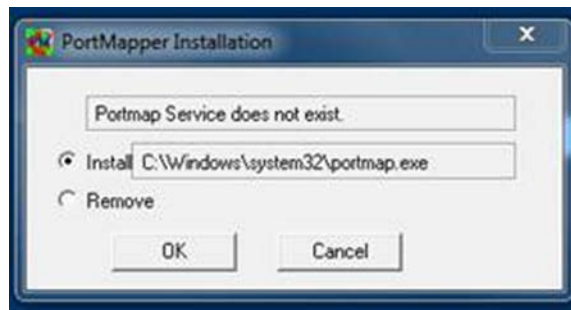
8. This window indicates typical progress during the installation.



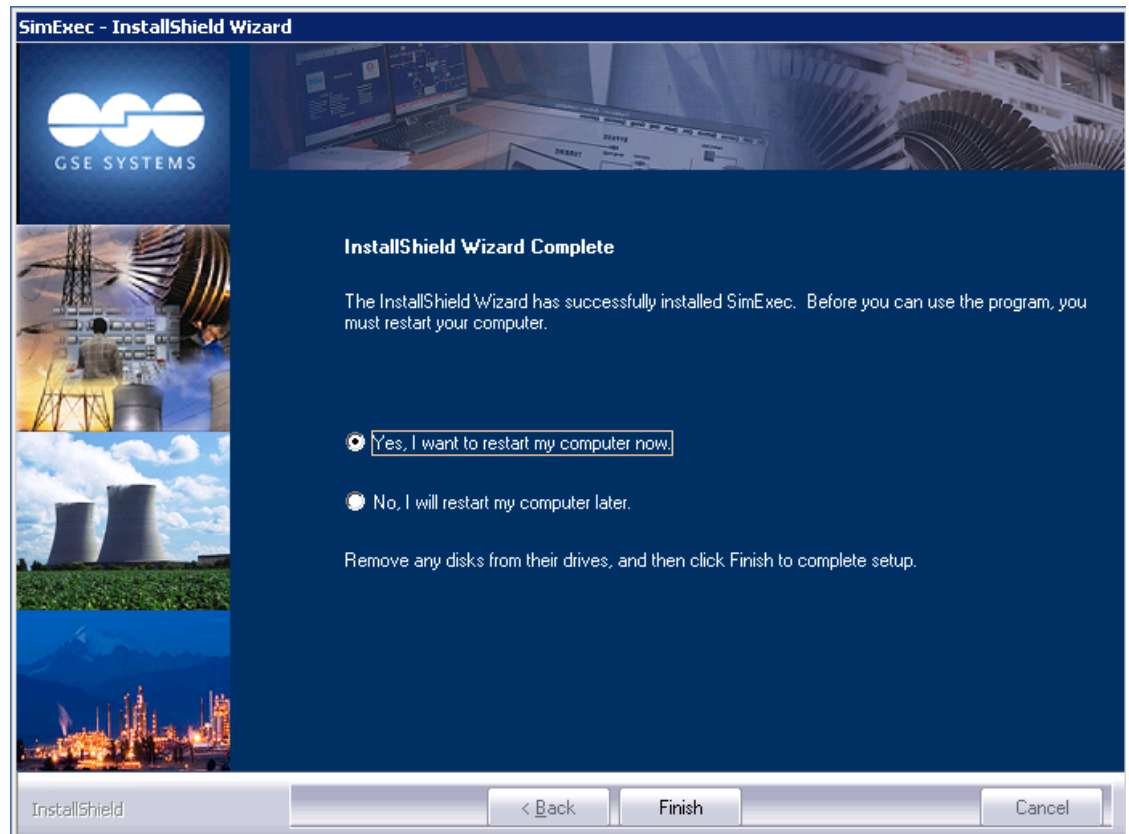
9. If the PortMapper service is already installed do not select any options and click **OK** to proceed.

OR

If portmap service does not exist, select install and click **OK** to proceed.



10. Finally, as a post installation process, an initialization script (Install_Directory\base\NewSys1.cmd) will begin. Common subroutines and a sample load will be compiled.



11. After the installation is complete, reboot your computer.

6. SimExec Post Installation

After installing SimExec, a few tasks may need to be performed in order to customize the installation.

In This Chapter

- Integrating Compiler environment with SimExec
- Customizing the Environment Variables for SimExec
- Customizing S3ENV - the SimExec-Configuration-files

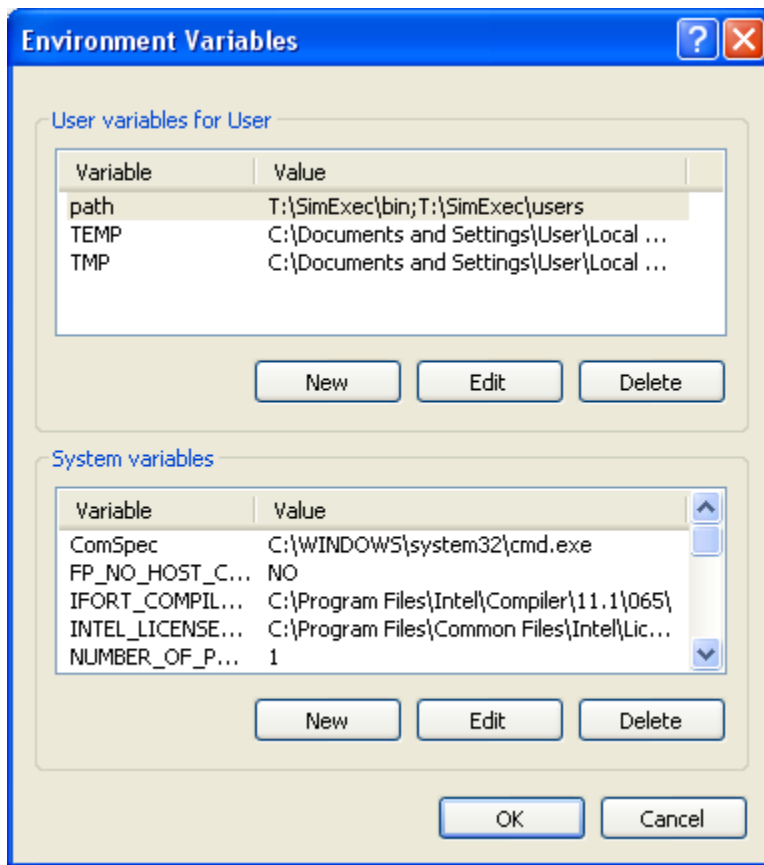
NOTE: Prior to SimExec version 4.4.0 SimExec was installed under a directory path name that included the version number, \SimExec43\. Starting with Version 4.4.0, the version number by default is dropped.

6.1 Integrating Compiler environment with SimExec

Visual Studio provides an option to update System-wide environment variables.

The environment variables can be checked in the

control-panel->System->Advanced->Environment Variables



If there are no **LIB** or **INCLUDE** variables in the System variables-Tab, the environment variables are not set.

SimExec installs the file *setenv.cmd* to set SimExec-Environment variables. This file is located in *S3_HOME*, the folder specified during step 5 of the installation.

If you correctly selected the Fortran and C compilers present on your system, you **do not need to complete section 6.1 of this guide**. If you did not select the Fortran and C compilers, you may need to update your *setenv.cmd* file.

Following sections will show what lines to add in the *setenv.cmd* file.

6.1.1 The Environment variables for Visual Studio- (2010 Example)

Visual Studio provides the batch file *vcvars32.bat* to set the required environment variables to run C or C++ compiler.

The file is located in *C:\Program Files\Microsoft Visual Studio 10.0\VC\bin* directory.

NOTE: On 64 bit installations, the file location is *C:\Program Files (x86)\Microsoft Visual Studio 10.0\VC\bin*

For installations of Microsoft Visual Studio 10.0 (2010), add following line in the beginning of *setenv.cmd*

```
@if exist "%VS100COMNTOOLS%\vcvars32.bat" (
call "%VS100COMNTOOLS%\vcvars32.bat"
)
```

For installations of previous versions of Microsoft Visual Studio, please refer to the FAQ (Section 11).

NOTE: The VS100COMNTOOLS environment variable is created by the Visual Studio installer.

6.1.2 The Environment variables for Intel-FORTRAN - (2011 Example)

The Intel Fortran provides the batch file *ifortvars.bat* to set the required environment variables to run FORTRAN compiler.

The file is located in *C:\Program Files\Intel\Composer\XE-2011\bin* directory.

Note: Use IFORT_COMPILER10 for Intel Fortran 10.x. Add following line in *setenv.cmd* after the *vcvars32.bat*-line as shown below:

```
@if exist "% vs10comntools%\vcvars32.bat" (
  call "% vs10comntools%\vcvars32.bat"
)
@if exist "%IFORT_COMPILER12%\bin\ifortvars.bat" (
  call "%IFORT_COMPILER12%\bin\ifortvars.bat[option]"
)
```

Where [option] need to be replaced by one of the following, depending on your computer:

- ia32-----Compiler and libraries for IA-32 architecture only
- ia32_intel64-----Compiler running on IA-32 architecture that generates code for Intel® 64 architecture; uses Intel® 64 architecture libraries
- intel64-----Compiler and libraries for Intel® 64 architecture only
- ia32_ia64-----Compiler running on IA-32 architecture that generates code for IA-64 architecture; uses IA-64 architecture libraries
- ia64-----Compiler and libraries for IA-64 architectures only

6.2 Customizing the Environment Variables for SimExec

SimExec installs the file *setenv.cmd*. This file defines required environment-variables.

The important variables are highlighted in the file.

The following is the sample *setenv.cmd*file:

```
@if exist "%VS100COMNTOOLS%\vcvars32.bat" (  
call "%VS100COMNTOOLS%\vcvars32.bat"  
)  
  
@if exist "%IFORT_COMPILER12%\Bin\ifortvars.bat" (  
  call "%IFORT_COMPILER12%\Bin\ifortvars.bat [option]"  
)  
  
set S3BASE=T:\SimExec\  
set S3BIN=%S3BASE%\bin  
set S3_BIN=%S3BASE%\bin  
set S3_HOME=T:\SimExec\Users  
set S3_ENV=T:\SimExec\Users\s3env
```

[more code may exist here, if you did a custom install]

```
set path=T:\SimExec\Users;%S3_BIN%;%Path%T:\SimExec\mbin
```

Use environment variable `%programfiles%` which is "Program Files" for US English version and may vary depending on the locale. If you have 64 bit installation, you may need to use `%programfiles(x86)%`.

6.3 Customizing S3ENV - the SimExec-Configuration-files

SimExec installs the file `s3env`. This file defines required environment-variables.

The following is the sample `s3envfile`:

```
*
*   where things are:
*
setProject_Name=H:\Project_Folder_Name
set S3BIN=H:\Simexec\bin
editpv PATH=+%S3BIN%
*
set S3_HOME="H:\Project_Folder_Name"
set S3_ODS=%S3_HOME%\ODS
*
*   behave case insensitive
set S3_CASE=NO
*
set S3_DEFAULT_UDS=load
*   leave compile and list files in place
set S3_KEEP=1
*   fortran compiler command base for fscan
*       /Z7 able to debug
*       /c compile only
*       /MD multi-threaded DLL
*       /Gm CVF calling convention
*       /4R8 Real literals are double precision
*
set S3_FORTRAN="ifort -c -MD /4R8 /Z7 /Zi /Gm "
*set S3_FSC_OPT=
*   fortran option selections
*       -Wv have fscan warn on array assign,
*       -wi warn (not fatal) implicit symbols,
*       -wl do not warn on label order
*       -wt suppress "implicit type"
*       -wp suppress warn on extra prec. /L input arguments
*       -wd suppress array expected
*       -x store xref on unsuccessful fscan
*       -8 default to double precision
```

```
set S3_FSC_OPT="-wl -8"

*
*       setting for cscan
set S3_CC="CL /c"
set S3_CCOPTS="/MD /Z7"

*       settings for lld
set S3_EXEC=%S3BIN%\iexecmd.lib
set S3_MSTG=%S3_HOME%\mstG.lib
*
*
*       S3_CIC - if 1 then one file per ic, if zero one per partition
set S3_CIC=1
*

set MYVOLUME=H:
set GOA_ACTIVATION="-0 -i -dtemp -sSimDiagram -h%MYVOLUME%\JADE3.1 -ejis -
o%MYVOLUME%\JADE3.1\jis\db\jsim"
set JIS_ACTIVATION="-m%MYVOLUME%\JADE3.1\jis\db -i -r -d"
*       file read on isd startup
set ISD_SELECT=%Project_Name%\load\isdset
set ISD_PAGES=%Project_Name%\load\isdPages
*       tell isd to default to connect to exec Project_Name
set ISD_EXEC=Project_Name
*       allow os cache for db reads/writes
*       TMD - changed to 1 on 10.23.2008
set S3_FLUSH=
*

set FSCAN_SUFFIX=.fsc
*       default executive iteration rate
set S3_HERTZ=16
*       ods ic directory
set S3_ICPATH=%S3_HOME%\ic
*       options for lld to add to its cl command
set S3_LD="/MD /Z7"
*       use SHARABLE object code
set S3_NSO=0
*       use objlist for linking executive
```

```
set S3_OLIST=1
*          default s3serv service number
set S3_SERVICE=9000
set
S3_GSWITCH="global_dosw^global_doov,global_aosw^global_aoov@,global_aisw^global_aiov@"
* The ao and ai are R*8
*set
S3_GSWITCH="global_dosw^global_doov,global_aosw^global_aoov,global_aisw^global_aiov"

set SSDIR=H:\Project_Folder_Name\ODS\VSS
set S3_VCPROJ_TEMPLATE=%S3BIN%\vcproj90.tmpl
set S3_REF_PREF=c*Ref:
* set USE_SEND_RECV=1

set S3_GOA_FRAMERATE=8
```

NOTE: Delete the **set LIB**-lines if they exist in the file. The **ISD_SELECT** and **ISD_PAGES** environment variables specify the folder locations. Please create the folders if they do not exist.

7. JADE™ Installation

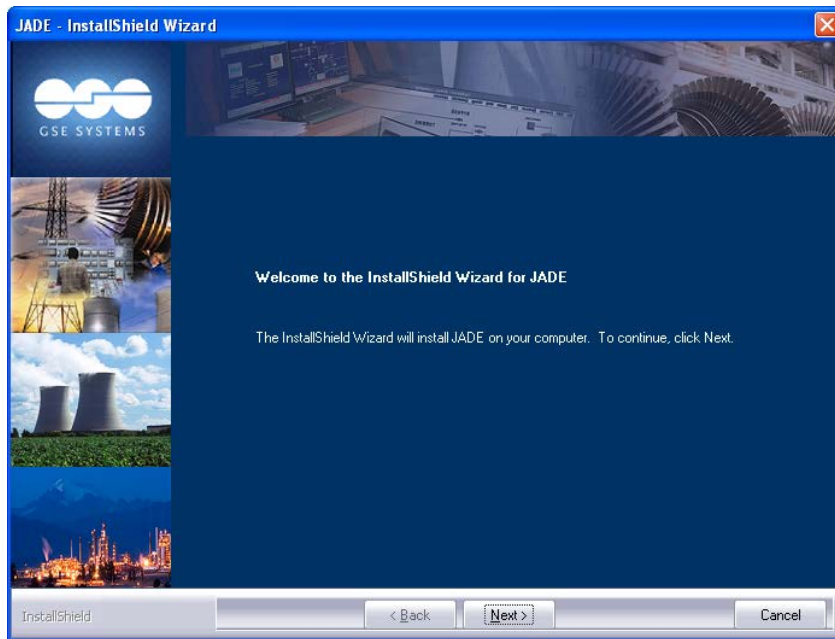
The JADE installation CD-ROM will automatically start the installation. If it does not start, run the setup.exe from the CD-ROM.

In This Chapter

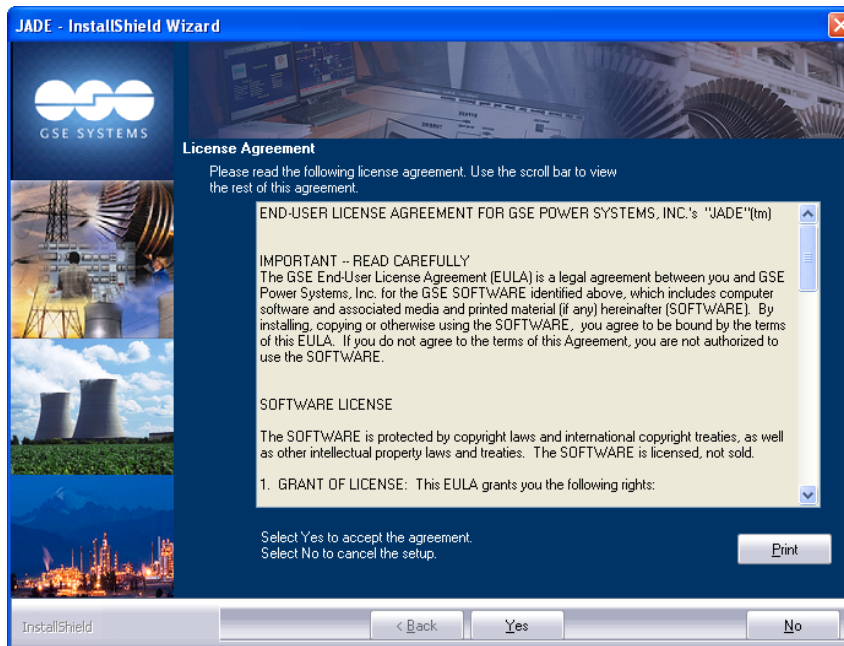
- Installing JADE

7.1 Installing JADE

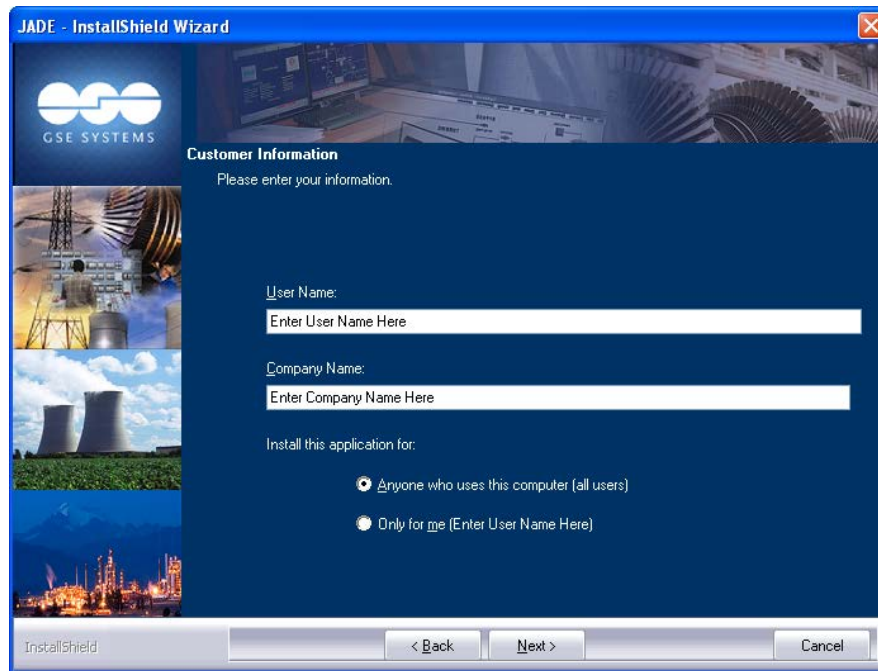
Insert the JADE installation CD-ROM in the CD-ROM-Drive and follow the recommended sequence shown below:



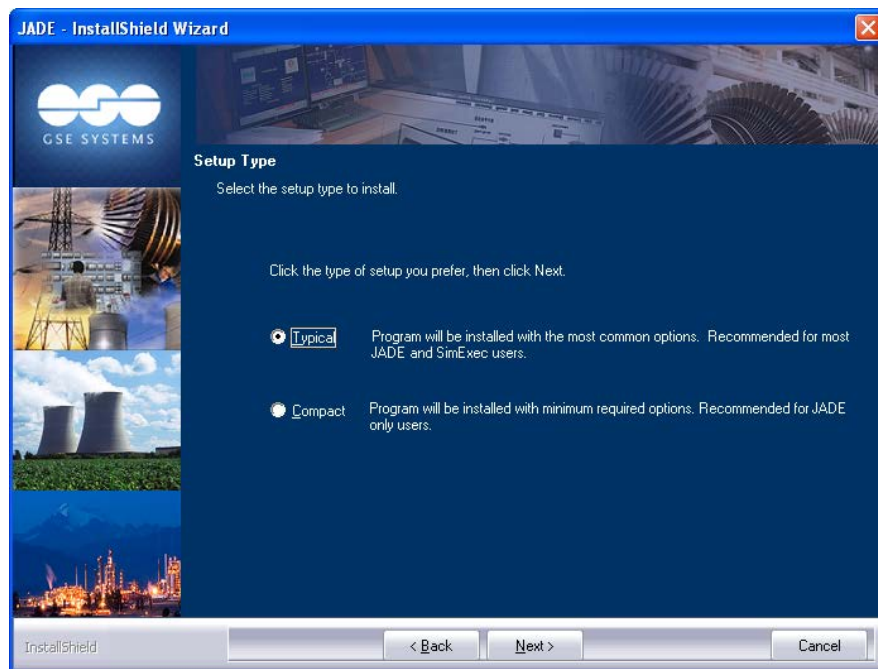
1. Click **Next**

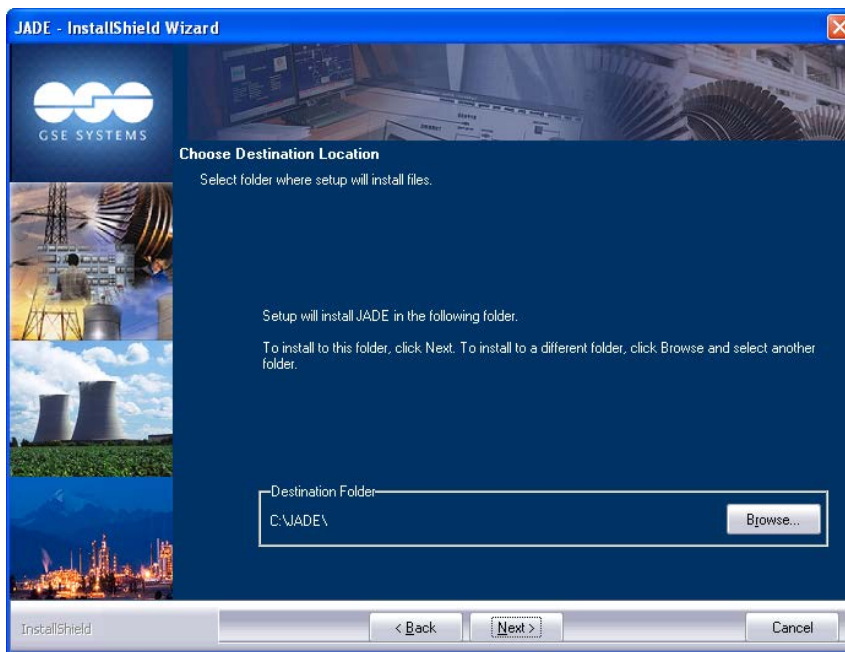


2. Click **Yes** to continue with the installation.

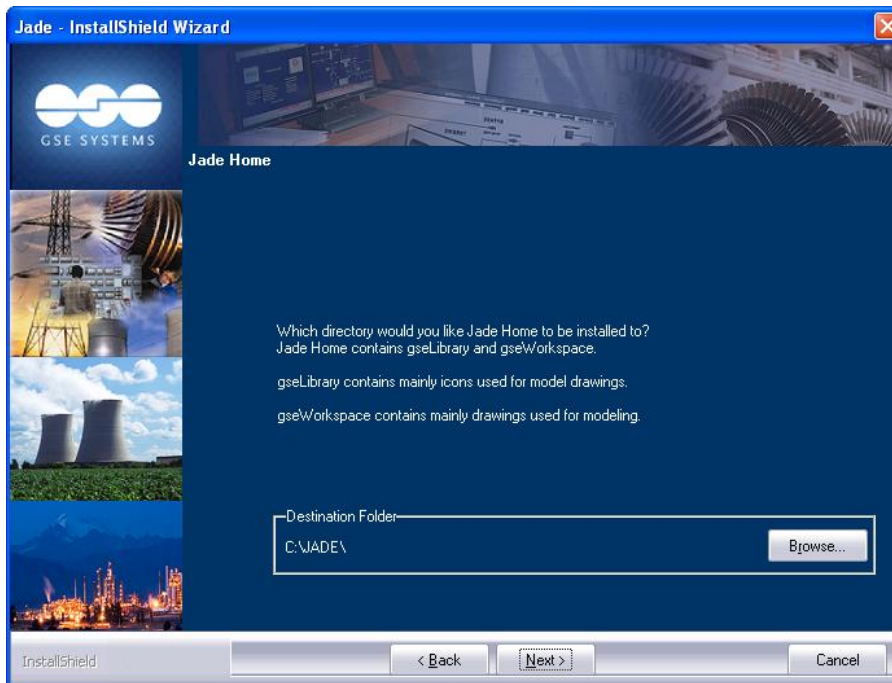


3. Enter a User Name and Company Name and use the default radio button setting. Click **Next**
4. Click the type of setup you prefer. Choosing typical will install JADE with the most common options. This is recommended for most JADE and SimExec users. A compact installation will install JADE with the minimum required options and is recommended for JADE only users. Click **Next**





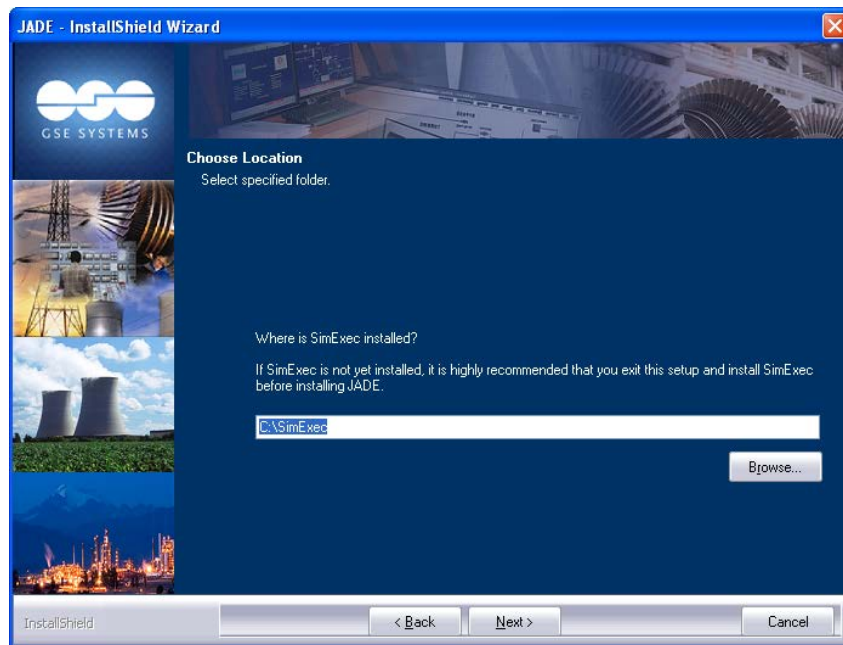
5. Install JADE to a Disk Drive of your choice. To change the default click the **Browse** button and enter a new drive letter. If more than one disk drive is available then install the software on its own drive. **Drive letter must not be substituted drive (see FAQ section 11)**. Click **Next**.



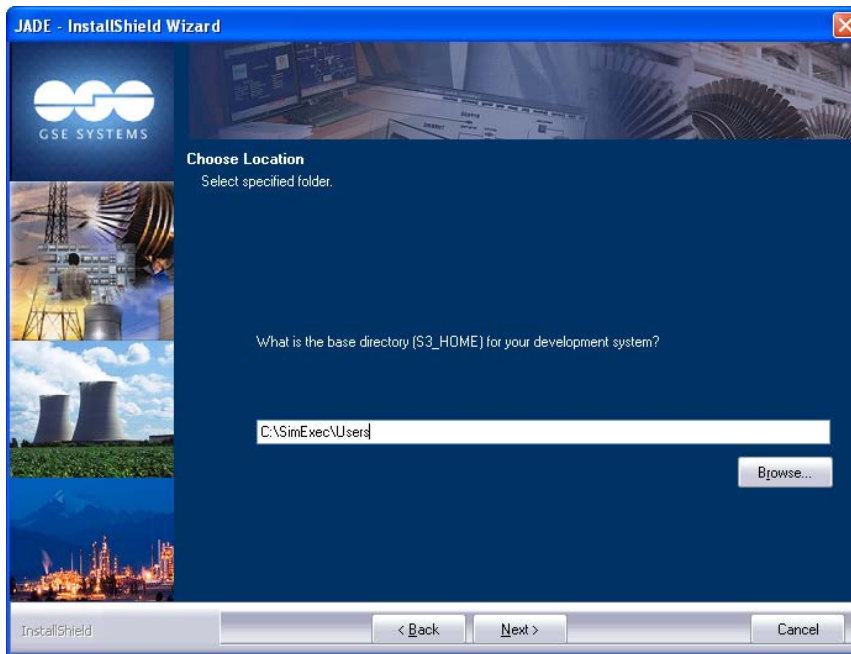
6. Select the directory in which you'd like Jade Home to be installed. Jade home contains gseLibrary and gseWorkspace. Gselibrary contains mainly icons used for model drawings. Gseworkspace contains mainly drawings used for modeling. This is done in an effort to separate the workspace from the rest of JADE. Select Next.



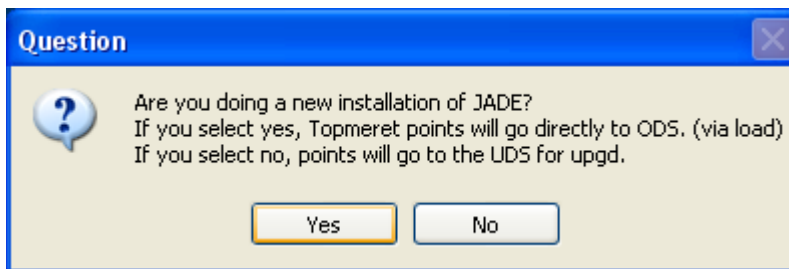
7. Select the appropriate engineering units. Select **Next**.



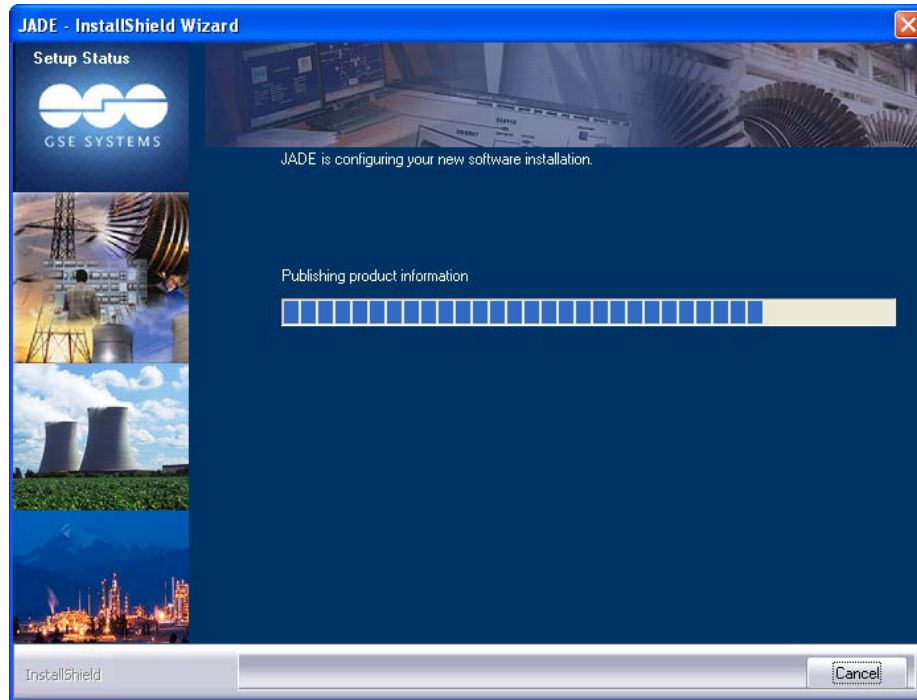
8. Specify where SimExec is installed on your machine. **It is highly recommended that SimExec is installed before JADE.** If SimExec is not installed on your machine, specify where you plan to install SimExec or leave this section blank, you will have to complete section 8 and 9 of this guide in order to correct environment variables set by JADE. Click **Next**.



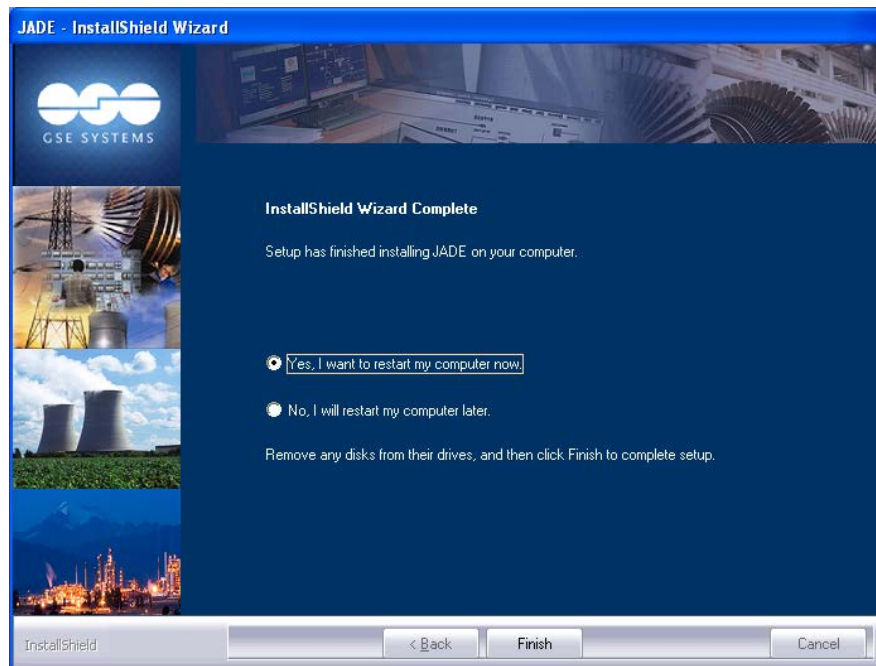
9. Specify where your project base (S3_HOME) is located. This is set during step 5 of SimExec installation. Click **Next**.



10. If JTopmeret is included with your install CD, a screen will appear asking if you are doing a new installation of JADE. Based on your answer, JTopmeret will add subroutines to either ODS (select Yes) or upgd's UDS (select No). For more information, see Section 10.
11. If satisfied with the current settings then click **Next** to begin the installation.



12. This window indicates typical progress during the installation.



13. Click Finish. Reboot your computer after the installation has completed. If JStation is included with your install CD, you may need to complete section 9 of this install guide.

8. JADE Post Installation

If the directories provided in steps 6 and 7 of the JADE installation are incorrect, you will need to go to the following files and correct the SIMEXEC_HOME, S3_HOME, and S3_ENV variables:

1. \BAT\JControl.bat
2. \BAT\JElectric.bat
3. \BAT\JFlow.bat
4. \BAT\JLogic.bat
5. \BAT\loadServers.bat
6. \jstation.properties

These variables need to point to the correct location on your machine where SimExec is installed and where your project home is located.

```
set SIMEXEC_HOME=C:\SimExec
```

```
set S3_HOME=C:\Project_Home_Directory
```

```
set S3_ENV=%S3_HOME%\s3env
```

NOTE: These files exist on your system depending upon JADE tools installed.

9. JStation Post Installation

JStation is one of the JADE client applications. After installing JADE, a few tasks may need to be performed to customize the JStation installation.

In This Chapter

- Customizing the SimExec Environment Variables for Activating the Servers
- Customizing the Project Name and Server Computer Name
- Configuring jstation.properties

9.1 Customizing the SimExec Environment Variables for Activating the Servers

JStation communicates with SimExec through the services provided by the SimServers. SimServers include *DIRserver*, *DBAserver*, *GDAserver*, and *JISserver*. The SimServers are activated using a batch file, *loadServers.bat*, in the *Bat* folder. Four environment variables related to SimExec are specified in this file, and they need to match with the installed SimExec. The following is the environment variable samples in *loadServers.bat*:

```
set SIMEXEC_HOME=C:\SimExec
set S3_HOME=%SIMEXEC_HOME%\Users
set S3_ENV=%S3_HOME%\s3env
```

NOTE: Before activating *loadServers.bat*, the firewall of the server computer needs to be disabled for communicating with JStation.

9.2 Customizing the Project Name and Server Computer Name

In general, SimExec and JADE are installed on the server computer. However, JStation can be activated from the client computer. If the client computer is used for graphics interface, no data or software is needed. In order for the client application to communicate with SimExec, an entry of project name and server computer name needs to be included in the *SEIS\dirserver.dat* file. The format of this entry is shown as follows:

```
Project_Name|Server_Computer_Name|Server_Computer_Name
```

NOTE: The project name is case sensitive.

In addition to *dirserver.dat*, the JStation startup batch file, *Bat\JStation.bat*, needs to be updated with the project name and server computer name. They are specified using the following two environment variables:

```
OPS_DIRHOST= Server_Computer_Name
OPS_PROJECT= Project_Name
```

9.3 Configuring *jstation.properties*

JStation saves action logs of the operator and instructor that are used during replay. You must update the path to which the logs are saved. The default variable is given below. Replace the bold section with your specified project home (*S3_HOME*).

```
JISOPERATORLOG=C:\SimExec\Users\load\operator.log
```


10. JTopmeret Post Installation

In order for the JTopmeret code generator to function properly, information needs to be supplied to the SimExec database. A script called post.bat will automatically add points, modules, and subroutines included with JADE to the SimExec database. It will also run topmt.exe and move the files that topmt.exe generates to either %S3_HOME%\load or % S3_HOME %\upgd based on the upgrade status of your installation.

Post.bat takes five command line arguments:

```
post.bat s3_home jade_home simexec_home y/n post_location
```

- s3_home is the project base.
- jade_home is the path to which you installed JADE. It should look similar to C:\JADE
- simexec_home is the path to which you installed SimExec. It should look similar to C:\SimExec
- y/n is the answer to the question “Are you installing a new version of JADE?” If you have never installed JADE before, or if you are completely replacing all files associated with an older version of JADE, select yes (y). If you are upgrading an older version of JADE and **do not want to lose current data files**, select no (n).
- post_location is the folder in which post.bat resides. This is usually jade_home\Topmeret.

NOTE: Selecting yes (y) causes all points and modules to go directly to ods. Also, any existing data.top or data.proj files will be overwritten. If this is not the desired result, select no (n).

If installing a new JADE, post.bat will:

1. run topmt.exe. This will create new data files in the Topmeret\data folder and **replace any existing ones**.
2. move files generated by topmt.exe to %S3_HOME%\load
3. move files provided by JADE to %S3_HOME%\load
4. go to %S3_HOME%\load\sel and run dbm –osq on all files in that folder.
5. Run dbm “lmsf u, 13” which compiles all the modules in the UDS.
6. Run dbm “mmsf u” which merges modules into ODS.
7. Run dbm “dftglob –o” which initializes the default global data image files used for initialization by simulation executive tasks.

If you are upgrading JADE, post.bat will:

1. copy Topmeret\data folder (which contains data.top and data.proj) into new folder called data_old
2. run topmt.exe. This will create new data files in the Topmeret\data folder.
3. move files generated by topmt.exe to %S3_HOME%\upgd
4. move files provided by JADE to %S3_HOME%\upgd
5. go to %S3_HOME%\upgd\sel and run dbm -scq on all files in that folder.

Old and new data files are available for comparison by user. User can check for differences between current S3_HOME\ods and the newly generated S3_HOME\upgd.

11. Frequently Asked Questions (FAQs)

This chapter describes some of the questions from the users.

In This Chapter

- MSVCRT.LIB Not Found
- Cannot install SimExec or JADE on a Substituted Drive
- Installing multiple versions
- Running JADE without Compilers Installed
- Microsoft Visual Studio 2010 Not Installed

11.1 MSVCRT.LIB Not Found

It is normally located in *C:\Program Files\Microsoft Visual Studio 9.0\VC\lib* directory. If it exists in the above location, then, the path is not in the environment variable; add following line in the *setenv.cmd* file and restart the command-prompt. (VS 2008 Example)

```
set LIB=%LIB%;C:\Program Files\Microsoft Visual Studio 9.0\VC\lib
```

If *MSVCRT.LIB* does not exist in *C:\Program Files\Microsoft Visual Studio 9.0\VC\lib*, please search for it under *C:\Program Files* and add that path in *setenv.cmd* file.

11.2 Cannot install SimExec or JADE on a Substituted Drive

The SimExec/JADE Installation will not install on the drive-letter substituted with the Microsoft 'subst' command. You must map the drive letter over your network, rather than substitute it.

The following procedure will allow the installation on the drive letter.

11.2.1 Using the Command Prompt Window

1. Delete the substituted-drive with the **subst /D** command.

For example: "Rdrive" is a folder under C:\. If you used the command **subst R: C:\Rdrive**, then use **subst R: /D** to delete the substitution. Make sure R: is not used by any tasks before deleting the disk-drive-mapping

2. Map the Rdrive folder as the network-drive. See the next section to use Windows Explorer to map the Rdrive folder.

Share the C:\Rdrive if not shared.

Use following commands to map the drive:

```
net use R:\\localhost\Rdrive /user:username
```

Make sure R: is available.

3. Continue with SimExec/JADE Installation on the R: drive
4. Delete the mapping of R: with **net use R: /DELETE** command.
5. Re-associate the drive using the command **subst R: C:\Rdrive**.

11.3 Install Multiple JADE Versions:

This allows multiple versions of JADE/SimExec to be run on a single computer and allows the user to change one version without affecting the other.

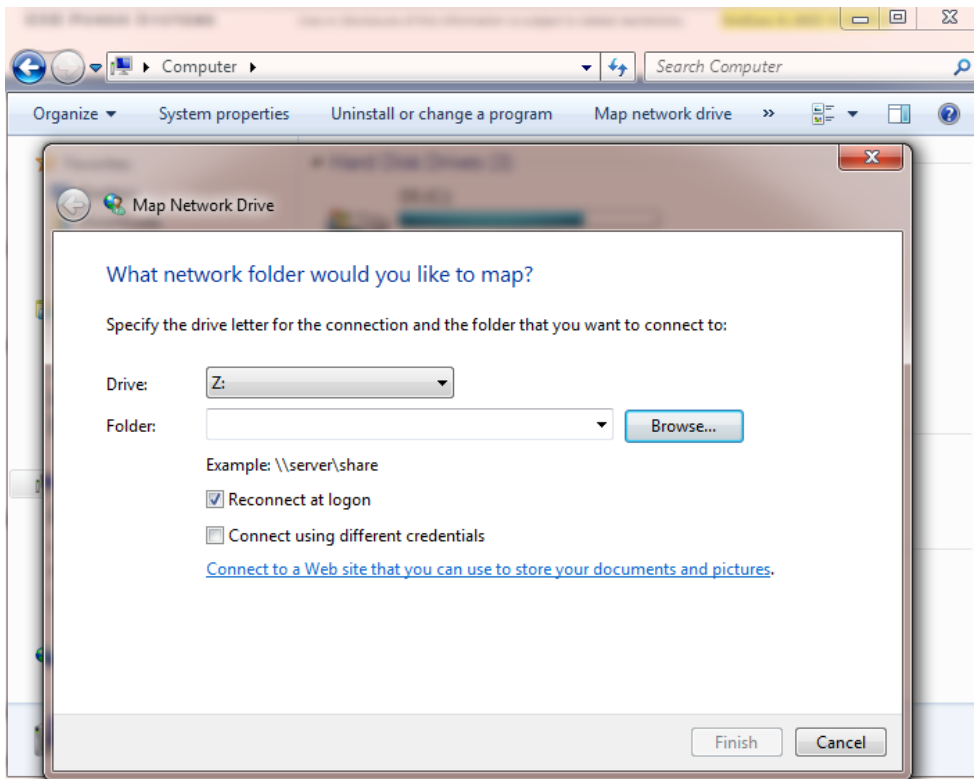
1. For example create a C:\Fdrive folder for Fossil version or C:\Ndrive for Nuclear version.
2. Map and share the drives as F and N respectively.
3. Install SimExec and JADE into the drive letters.

11.3.1 Using Windows Explorer to Map Network Drive

For Windows XP, Vista, and Windows 7 you can use the GUI to do the mapping, however you must be at the “Computer” level to get to the menu item in Windows 7 or Server 2008R2.

NOTE: Your target drive letter must not be currently maintaining a substitute drive. In the command prompt window, type **subst R: /D** to remove the substitution. This will NOT affect any files in the folder.

1. Go to Start > right click Computer (or My Computer in XP) > Select Map Network Drive...
 - a. Alternatively, you can navigate to Computer (My Computer) and in the left hand menu, right click Network (My Network Places) and Select Map Network Drive...
2. Once in this menu you can pick an unused drive letter and then you have to browse to the shared folder.



11.4 Running JADE without Compilers Installed

If planning to run JADE tools via a mapped network drive on a computer with no compilers installed, **Microsoft Visual C++ 2008 Redistributable Package (x86)** needs to be installed in order to run “**Activate Self Testing**” in the “**Test**” drop down menu. This installs runtime components of Visual C++ Libraries required to run applications developed with Visual C++ on a computer that does not have Visual C++ installed. A free download is available from Microsoft. [Microsoft Visual C++ 2008 Redistributable Package \(x86\)](#)

11.5 Microsoft Visual Studio 2010 Not Installed

If Microsoft Visual Studio 2008 is installed, in section 6.1.1VS100COMNTOOLS is replaced by VS90COMNTOOLS.

For instances of Microsoft Visual Studio 9.0, write this line to setenv.cmd:

```
@if exist "%ProgramFiles%\Microsoft Visual Studio 9.0\VC\bin\vcvars32.bat" (  
call "%ProgramFiles%\ Microsoft Visual Studio 9.0\VC\bin\vcvars32.bat"  
)
```

NOTE: For 64-bit machines, %ProgramFiles% is replaced by %ProgramFiles(x86)%.

A. Appendix A: Optional Layered Products

A.1 Visual Source Safe

This section describes how the Microsoft Visual Source Safe (VSS) can be integrated in the SimExec Environment. SimExec provides transparent access to the VSS from the name dbm-commands.

A.1.1 Installing Visual Source Safe

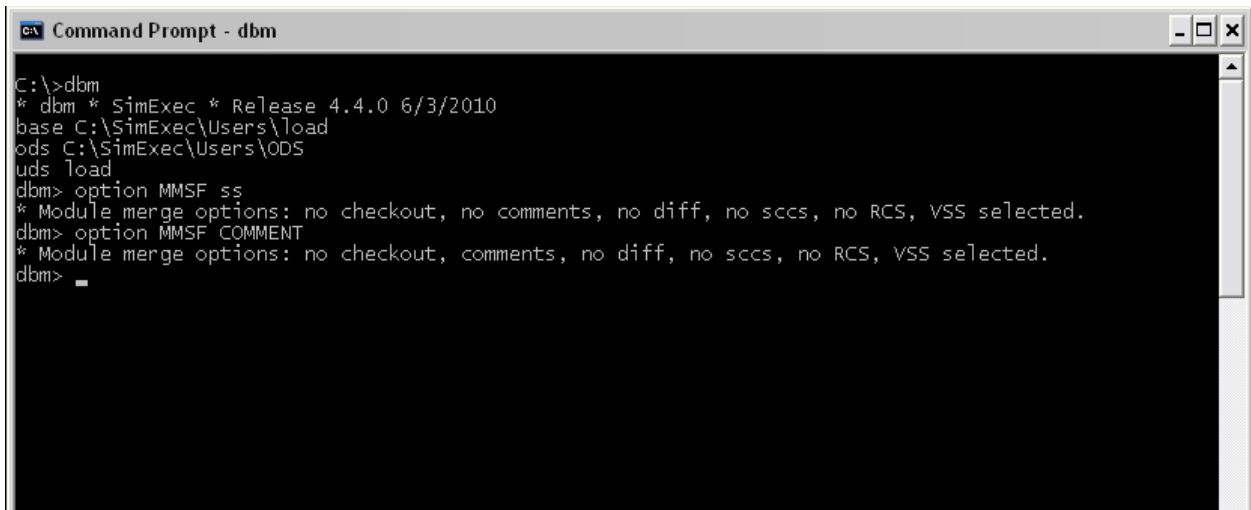
- Install VSS from the CD-ROM provided by the vendor.
 - Define the location for the VSS files under ODS-user
 - **H:\PROJECT_NAME\ODS\VSS**
 - Log in as **admin** and create a VSS repository in the above location
 - Create a project S3 in VSS.
- The VSS is normally installed in the directory C:\%programfiles%\Microsoft Visual SourceSafe. The environment variable %programfiles% is "Program Files" for US English version and may vary depending on the locale.
- Add the users in the VSS to allow checking-in and checking-out of the sources. Usually user **load** is added. The project may have a specific user-name to control the merging of the module; please add that user-name in VSS as well.

A.1.2 Customizing SimExec Configuration for VSS

- Update s3env file to include following lines
 - set SSDIR= **H:\PROJECT_NAME\ODS\VSS**
- Update the setenv.cmd file to include C:\%programfiles%\Microsoft Visual SourceSafe in PATH - environment-variable. This provides SimExec access to the VSS-files namely ss.exe - command-line interface to the VSS.
 - set path=C:\Program Files\Microsoft Visual SourceSafe;%path%

A.2 Using SimExec to access VSS

- Setting up SimExec
 - Open the command-prompt to get the environment-variables set in s3env and setenv.cmd files.
 - Type in following commands as shown in the command-prompt-window to define (Microsoft Visual) Source Safe to manage the source apply VSS rules when checking out and supplying coments.
 - option mmsf ss
 - option mmsf comment



```
C:\>dbm
* dbm * SimExec * Release 4.4.0 6/3/2010
base C:\SimExec\Users\load
ods C:\SimExec\Users\ODS
uds load
dbm> option MMSF ss
* Module merge options: no checkout, no comments, no diff, no sccs, no RCS, VSS selected.
dbm> option MMSF COMMENT
* Module merge options: no checkout, comments, no diff, no sccs, no RCS, VSS selected.
dbm> _
```

- Following command will check-in all ODS sources to the VSS
 - init ss
- After these steps, the mmsf command will check-in/check-out from the VSS.

B. Appendix B: Network Dongle

When a network HASP dongle (red dongle) is used, the client that searches a HASP net license server reads settings from the file *nethasp.ini*. This file is searched in the directory of the executable using the license, the current working directory or the Windows System directory. On 32 bit systems this file should be located in *C:\WINDOWS\System32*. On 64 bit Windows this file must be located in *C:\Windows\SysWOW64*.

By default, HASP uses broadcasts to locate a server, but this technique only works as long as client and server are on the same segment of a network as broadcasts do not pass through network switches and routers.

By configuring the IP address of the license server in the *nethasp.ini* file, the client can always locate the server.

The following lists the contents of *nethasp.ini* configured with typical GSE recommended settings.

```
; NetHASP Configuration file
[NH_COMMON]
; Section-specific Keywords
;
NH_TCPIP = Enabled           ; Use the TCP/IP protocol
;
; General Keywords
;
NH_SESSION = 5              ; Set the maximum length of time during which
                             ; the protected application tries to establish
                             ; communication with the HASP License Manager.
                             ; Default 2 seconds

NH_SEND_RCV = 5            ; Set the maximum length of time for the HASP
                             ; License Manager to send or receive a packet.
                             ; Default 1 second

[NH_TCPIP]

NH_SERVER_ADDR = <Addr1>, <Addr2>
; IP addresses of all the NetHASP
                             ; License Managers you want to search.
                             ; Unlimited addresses and multiple
                             ; lines are possible.
                             ;
                             ; Possible address format examples:
                             ; IP address:   192.114.176.65
                             ; Local Hostname: ftp.aladdin.co.il
```

NH_TCPIP_METHOD = TCP ; Send a TCP packet or UDP packet
; Default: UDP

NH_USE_BROADCAST = Disabled ; TCPI/IP Broadcast mechanism.
; Default: Enabled

C. Appendix C: vcproj90.tpl

```

<?xml version="1.0" encoding = "Windows-1252"?>
<VisualStudioProject
  ProjectType="Visual C++"
  Version="9.00"
  Name="@ @EXNAME@"
  ProjectGUID="{@ @GUID@}"
  SccProjectName=""
  SccLocalPath=""
  Keyword="MakeFileProj"
  >
  <Platforms>
    <Platform
      Name="Win32"/>
  </Platforms>
  <Configurations>
    <Configuration
      Name="Release|Win32"
      OutputDirectory="."
      IntermediateDirectory=".\\Release"
      ConfigurationType="0"
      InheritedPropertySheets=""
      UseOfMFC="0"
      ATLMinimizesCRunTimeLibraryUsage="FALSE">
    <Tool
      Name="VCNMakeTool"
      BuildCommandLine="@ @S3BIN@\\ld.exe -s
@@EXNAME@.lld"
      ReBuildCommandLine="@ @S3BIN@\\ld.exe -F -s
@@EXNAME@.lld"
      CleanCommandLine=""
      Output="@ @EXNAME@.exe"
      PreprocessorDefinitions=""
      IncludeSearchPath=""
      ForcedIncludes=""
      AssemblySearchPath=""
      ForcedUsingAssemblies=""
      CompileAsManaged=""

```

```

/>
</Configuration>
<Configuration
  Name="Debug|Win32"
  OutputDirectory="."
  IntermediateDirectory=".\\Debug"
  ConfigurationType="0"
  InheritedPropertySheets=""
  UseOfMFC="0"
  ATLMinimizesCRunTimeLibraryUsage="FALSE">
  <Tool
    Name="VCNMakeTool"
    BuildCommandLine="@ @S3BIN@\\ld.exe -s
@@EXNAME@.ld"
    ReBuildCommandLine="@ @S3BIN@\\ld.exe -F -s
@@EXNAME@.ld"
    CleanCommandLine=""
    Output="@ @EXNAME@.exe"
    PreprocessorDefinitions=""
    IncludeSearchPath=""
    ForcedIncludes=""
    AssemblySearchPath=""
    ForcedUsingAssemblies=""
    CompileAsManaged=""
  />
</Configuration>
</Configurations>
<References>
</References>
<Files>
  <Filter
    Name="Source Files"
    Filter="cpp;c;cxx;rc;def;r;odl;idl;hpj;bat;for;fsc;f">
    @@SOURCE_FILES@
  </Filter>
  <Filter
    Name="Header Files"
    Filter="h;hpp;hxx;hm;inl">
  </Filter>

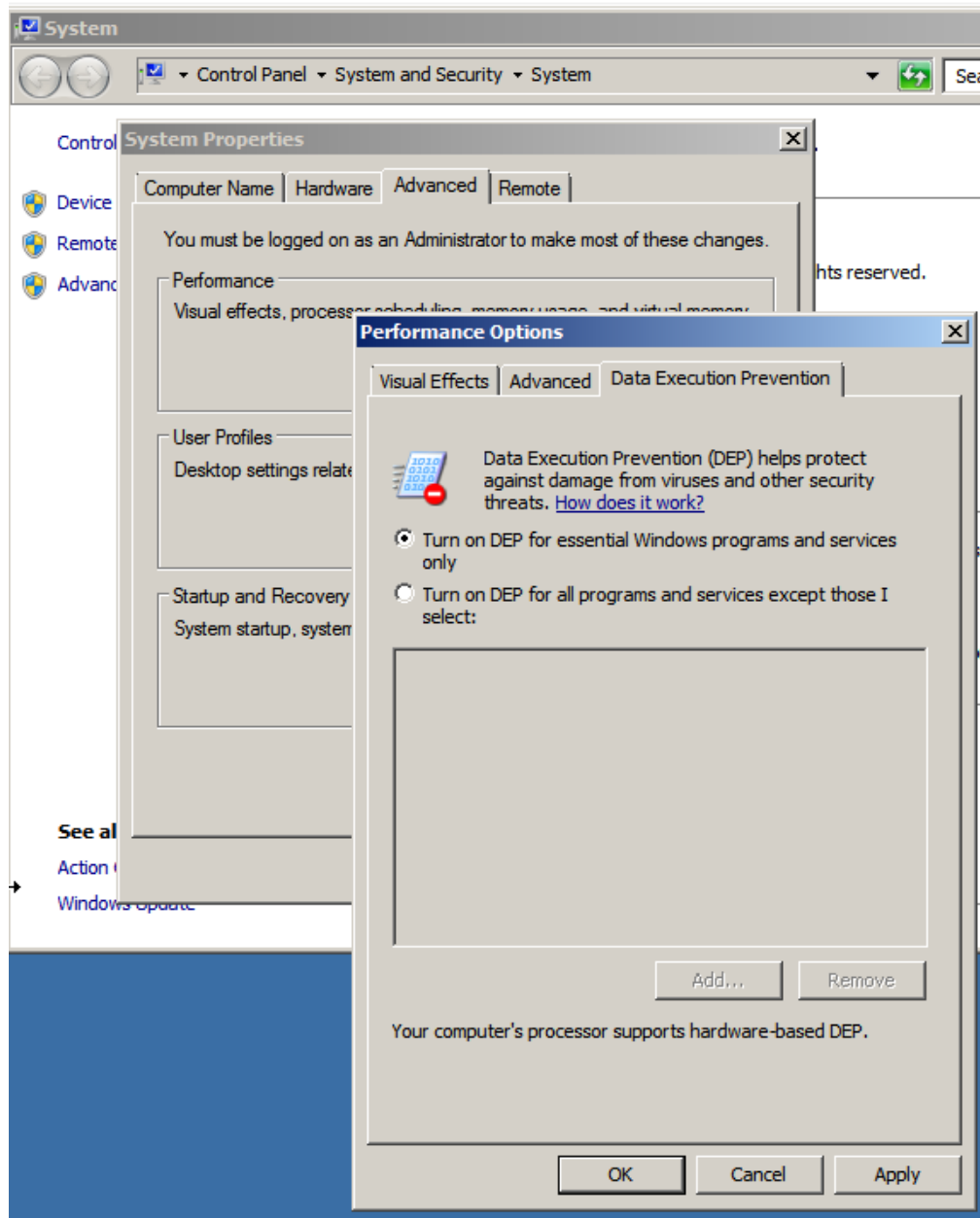
```

```
<Filter
  Name="Resource Files"
  Filter="ico;cur;bmp;dlg;rc2;rct;bin;rgs;gif;jpg;jpeg;jpe">
</Filter>
</Files>
<Globals>
</Globals>
</VisualStudioProject>
```


D. Appendix D: Microsoft Windows Settings

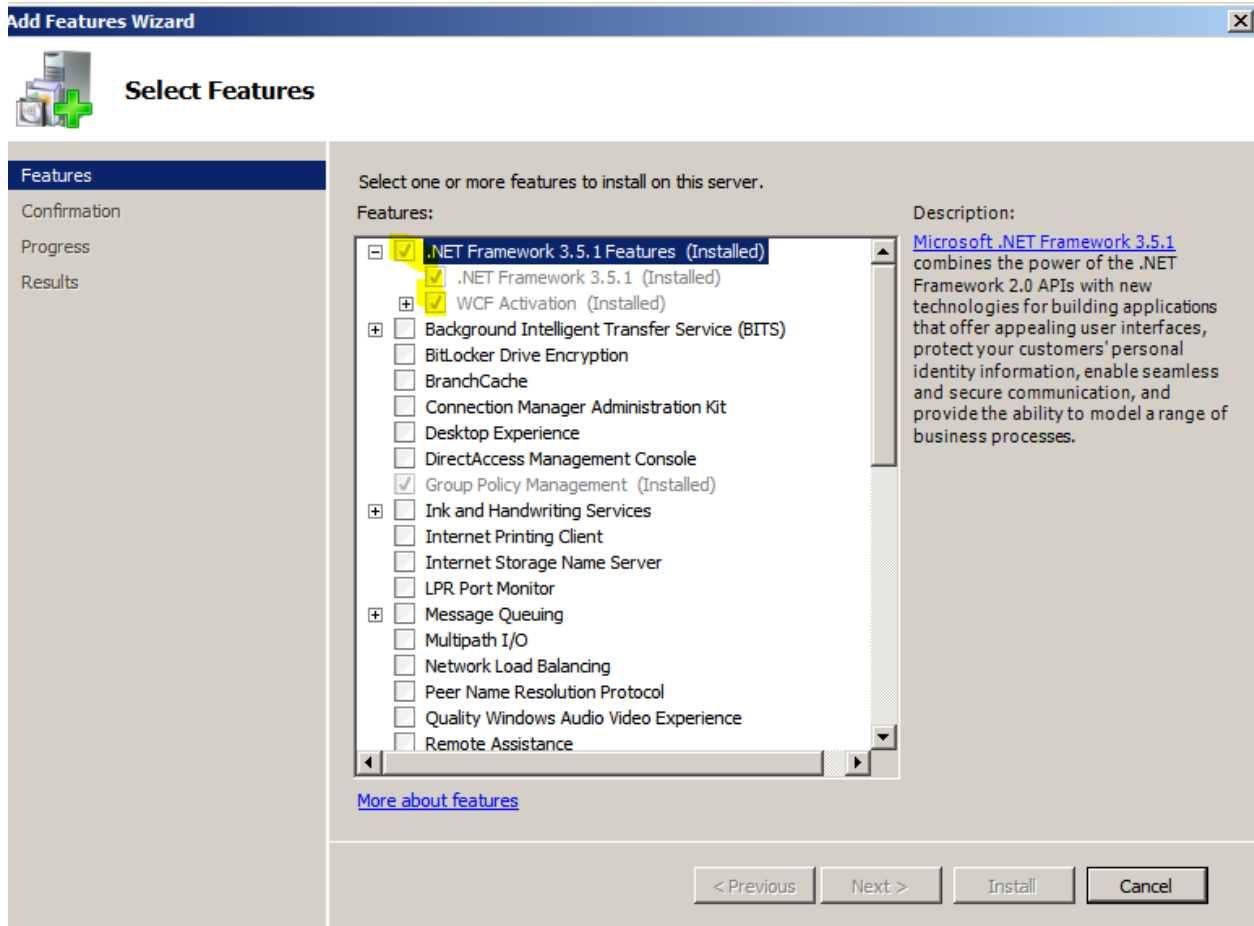
D.1 Data Execution Prevention

For Windows Server 2003 and 2008, DEP needs to be disabled for the HASP driver, otherwise the JADE tools may fail to run. The setting is located within System Properties, Advanced, Performance. Below is a Server 2008 R2 screen capture. A reboot will be required.



D.2 Microsoft Windows Server 2008 R2:

In order to install Visual Studio you must have .NET Framework “Feature” installed under Server Manager. Otherwise the install will fail.



E. Appendix E: Compiler Paths for Setenv File

E.1 Visual Basic Compilers

Below are listed path, include, and lib paths for various Microsoft Visual Studio and Intel FORTRAN Compilers. The cmd file setenv.cmd should reflect these paths based on your system configuration.

Microsoft Visual Studio 8 (2005):

Path:

```
%ProgramFiles%\Microsoft Visual Studio 8\VC\bin; %ProgramFiles%\Microsoft Visual Studio 8\Common7\IDE;%ProgramFiles(x86)%\Microsoft Visual Studio 8\VC\bin; %ProgramFiles(x86)%\Microsoft Visual Studio 8\Common7\IDE
```

Lib:

```
%ProgramFiles%\Microsoft Visual Studio 8\atlmfc\lib; %ProgramFiles%\Microsoft Visual Studio 8\VC\lib; %ProgramFiles%\Microsoft Visual Studio 8\VC\PlatformSDK\lib;%ProgramFiles(x86)%\Microsoft Visual Studio 8\atlmfc\lib; %ProgramFiles(x86)%\Microsoft Visual Studio 8\VC\lib; %ProgramFiles(x86)%\Microsoft Visual Studio 8\VC\PlatformSDK\lib
```

Include:

```
%ProgramFiles%\Microsoft Visual Studio 8\VC\PlatformSDK\Include; %ProgramFiles%\Microsoft Visual Studio 8\VC\Include; %ProgramFiles%\Microsoft Visual Studio 8\VC\atlmfc\Include;%ProgramFiles(x86)%\Microsoft Visual Studio 8\VC\PlatformSDK\Include;%ProgramFiles(x86)%\Microsoft Visual Studio 8\VC\Include; %ProgramFiles(x86)%\Microsoft Visual Studio 8\VC\atlmfc\Include
```

Microsoft Visual Studio 9.0 (2008)

Path:

```
%ProgramFiles%\Microsoft Visual Studio 9.0\VC\bin; %ProgramFiles%\Microsoft Visual Studio 9.0\Common7\IDE;%ProgramFiles(x86)%\Microsoft Visual Studio 9.0\VC\bin; %ProgramFiles(x86)%\Microsoft Visual Studio 9.0\Common7\IDE
```

Lib:

```
%ProgramFiles%\Microsoft Visual Studio 9.0\VC\atlmfc\lib; %ProgramFiles%\Microsoft Visual Studio 9.0\VC\lib; C:\Program Files\Microsoft SDKs\Windows\v6.0A\lib;%ProgramFiles(x86)%\Microsoft Visual Studio 9.0\VC\atlmfc\lib; %ProgramFiles(x86)%\Microsoft Visual Studio 9.0\VC\lib; C:\Program Files (x86)\Microsoft SDKs\Windows\v6.0A\lib
```

Include:

```
%ProgramFiles%\Microsoft Visual Studio 9.0\atlmfc\Include;  
%ProgramFiles%\Microsoft Visual Studio 9.0\VC\include;  
C:\Program Files\Microsoft  
SDKs\Windows\v6.0A\Include;%ProgramFiles(x86)%\Microsoft Visual Studio  
9.0\atlmfc\Include;  
%ProgramFiles(x86)%\Microsoft Visual Studio 9.0\VC\include;  
C:\Program Files (x86)\Microsoft SDKs\Windows\v6.0A\Include
```

Microsoft Visual Studio 10.0 (2010)

Path:

```
%ProgramFiles%\Microsoft Visual Studio 10.0\VC\bin;  
%ProgramFiles%\Microsoft Visual Studio  
10.0\Common7\IDE;%ProgramFiles(x86)%\Microsoft Visual Studio 10.0\VC\bin;  
%ProgramFiles(x86)%\Microsoft Visual Studio 10.0\Common7\IDE
```

Lib:

```
%ProgramFiles%\Microsoft Visual Studio 10.0\VC\atlmfc\lib;  
%ProgramFiles%\Microsoft Visual Studio 10.0\VC\lib;  
C:\Program Files\Microsoft  
SDKs\Windows\v7.0A\lib;%ProgramFiles(x86)%\Microsoft Visual Studio  
10.0\VC\atlmfc\lib;  
%ProgramFiles(x86)%\Microsoft Visual Studio 10.0\VC\lib;  
C:\Program Files (x86)\Microsoft SDKs\Windows\v7.0A\lib
```

Include:

```
%ProgramFiles%\Microsoft Visual Studio 10.0\atlmfc\Include;  
%ProgramFiles%\Microsoft Visual Studio 10.0\VC\include; C:\Program  
Files\Microsoft SDKs\Windows\v7.0a\Include;%ProgramFiles(x86)%\Microsoft  
Visual Studio 10.0\atlmfc\Include; %ProgramFiles(x86)%\Microsoft Visual Studio  
10.0\VC\include; C:\Program Files (x86)\Microsoft SDKs\Windows\v7.0a\Include
```

E.2 Intel FORTAN Compilers

Intel FORTRAN 10.0.025

Path:

%ProgramFiles%\Intel\Compiler\Fortran\10.0.025\IA32\Bin;%ProgramFiles(x86)%\Intel\Compiler\Fortran\10.0.025\IA32\Bin

Lib:

%ProgramFiles%\Intel\Compiler\Fortran\10.0.025\IA32\LIB;%ProgramFiles(x86)%\Intel\Compiler\Fortran\10.0.025\IA32\LIB

Include:

%ProgramFiles%\Intel\Compiler\Fortran\10.0.025\IA32\Include;%ProgramFiles(x86)%\Intel\Compiler\Fortran\10.0.025\IA32\Include

Intel FORTRAN 10.0.027

Path:

%ProgramFiles%\Intel\Compiler\Fortran\10.0.027\IA32\Bin;%ProgramFiles(x86)%\Intel\Compiler\Fortran\10.0.027\IA32\Bin

Lib:

%ProgramFiles%\Intel\Compiler\Fortran\10.0.027\IA32\LIB;%ProgramFiles(x86)%\Intel\Compiler\Fortran\10.0.027\IA32\LIB

Include:

%ProgramFiles%\Intel\Compiler\Fortran\10.0.027\IA32\Include;%ProgramFiles(x86)%\Intel\Compiler\Fortran\10.0.027\IA32\Include

Intel FORTRAN 10.1.011

Path:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.011\IA32\Bin;%ProgramFiles(x86)%\Intel\Compiler\Fortran\10.1.011\IA32\Bin

Lib:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.011\IA32\LIB;%ProgramFiles(x86)%\Intel\Compiler\Fortran\10.1.011\IA32\LIB

Include:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.011\IA32\Include;%ProgramFiles(x86)%\Intel\Compiler\Fortran\10.1.011\IA32\Include

Intel FORTRAN 10.1.013

Path:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.013\IA32\Bin;%ProgramFiles(x86)\Intel\Compiler\Fortran\10.1.013\IA32\Bin

Lib:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.013\IA32\LIB;%ProgramFiles(x86)\Intel\Compiler\Fortran\10.1.013\IA32\LIB

Include:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.013\IA32\Include;%ProgramFiles(x86)\Intel\Compiler\Fortran\10.1.013\IA32\Include

Intel FORTRAN 10.1.014

Path:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.014\IA32\Bin;%ProgramFiles(x86)\Intel\Compiler\Fortran\10.1.014\IA32\Bin

Lib:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.014\IA32\LIB;%ProgramFiles(x86)\Intel\Compiler\Fortran\10.1.014\IA32\LIB

Include:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.014\IA32\Include;%ProgramFiles(x86)\Intel\Compiler\Fortran\10.1.014\IA32\Include

Intel FORTRAN 10.1.019

Path:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.019\IA32\Bin;%ProgramFiles(x86)\Intel\Compiler\Fortran\10.1.019\IA32\Bin

Lib:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.019\IA32\LIB;%ProgramFiles(x86)\Intel\Compiler\Fortran\10.1.019\IA32\LIB

Include:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.019\IA32\Include;%ProgramFiles(x86)\Intel\Compiler\Fortran\10.1.019\IA32\Include

Intel FORTRAN 10.1.021

Path:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.021\IA32\Bin;%ProgramFiles(x86)%\Intel\Compiler\Fortran\10.1.021\IA32\Bin

Lib:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.021\IA32\LIB;%ProgramFiles(x86)%\Intel\Compiler\Fortran\10.1.021\IA32\LIB

Include:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.021\IA32\Include;%ProgramFiles(x86)%\Intel\Compiler\Fortran\10.1.021\IA32\Include

Intel FORTRAN 10.1.024

Path:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.024\IA32\Bin;%ProgramFiles(x86)%\Intel\Compiler\Fortran\10.1.024\IA32\Bin

Lib:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.024\IA32\LIB;%ProgramFiles(x86)%\Intel\Compiler\Fortran\10.1.024\IA32\LIB

Include:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.024\IA32\Include;%ProgramFiles(x86)%\Intel\Compiler\Fortran\10.1.024\IA32\Include

Intel FORTRAN 10.1.025

Path:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.025\IA32\Bin;%ProgramFiles(x86)%\Intel\Compiler\Fortran\10.1.025\IA32\Bin

Lib:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.025\IA32\LIB;%ProgramFiles(x86)%\Intel\Compiler\Fortran\10.1.025\IA32\LIB

Include:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.025\IA32\Include;%ProgramFiles(x86)%\Intel\Compiler\Fortran\10.1.025\IA32\Include

Intel FORTRAN 10.1.029

Path:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.029\IA32\Bin;%ProgramFiles(x86)%\Intel\Compiler\Fortran\10.1.029\IA32\Bin

Lib:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.029\IA32\LIB;%ProgramFiles(x86)\Intel\Compiler\Fortran\10.1.029\IA32\LIB

Include:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.029\IA32\Include;%ProgramFiles(x86)\Intel\Compiler\Fortran\10.1.029\IA32\Include

Intel FORTRAN 10.1.030

Path:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.030\IA32\Bin;%ProgramFiles(x86)\Intel\Compiler\Fortran\10.1.030\IA32\Bin

Lib:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.030\IA32\LIB;%ProgramFiles(x86)\Intel\Compiler\Fortran\10.1.030\IA32\LIB

Include:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.030\IA32\Include;%ProgramFiles(x86)\Intel\Compiler\Fortran\10.1.030\IA32\Include

Intel FORTRAN 10.1.032

Path:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.032\IA32\Bin;%ProgramFiles(x86)\Intel\Compiler\Fortran\10.1.032\IA32\Bin

Lib:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.032\IA32\LIB;%ProgramFiles(x86)\Intel\Compiler\Fortran\10.1.032\IA32\LIB

Include:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.032\IA32\Include;%ProgramFiles(x86)\Intel\Compiler\Fortran\10.1.032\IA32\Include

Intel FORTRAN 10.1.034

Path:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.034\IA32\Bin;%ProgramFiles(x86)\Intel\Compiler\Fortran\10.1.034\IA32\Bin

Lib:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.034\IA32\LIB;%ProgramFiles(x86)\Intel\Compiler\Fortran\10.1.034\IA32\LIB

Include:

%ProgramFiles%\Intel\Compiler\Fortran\10.1.034\IA32\Include;%ProgramFiles(x86)%\Intel\Compiler\Fortran\10.1.034\IA32\Include

Intel FORTRAN 11.0.061

Path:

%ProgramFiles%\Intel\Compiler\11.0\061\Fortran\Bin\IA32;%ProgramFiles(x86)%\Intel\Compiler\11.0\061\Fortran\Bin\IA32

Lib:

%ProgramFiles%\Intel\Compiler\11.0\061\Fortran\lib\ia32;%ProgramFiles(x86)%\Intel\Compiler\11.0\061\Fortran\lib\ia32

Include:

%ProgramFiles%\Intel\Compiler\11.0\061\Fortran\include\ia32;%ProgramFiles(x86)%\Intel\Compiler\11.0\061\Fortran\include\ia32

Intel FORTRAN 11.0.075

Path:

%ProgramFiles%\Intel\Compiler\11.0\075\Fortran\Bin\IA32;%ProgramFiles(x86)%\Intel\Compiler\11.0\075\Fortran\Bin\IA32

Lib:

%ProgramFiles%\Intel\Compiler\11.0\075\Fortran\lib\ia32;%ProgramFiles(x86)%\Intel\Compiler\11.0\075\Fortran\lib\ia32

Include:

%ProgramFiles%\Intel\Compiler\11.0\075\Fortran\include\ia32;%ProgramFiles(x86)%\Intel\Compiler\11.0\075\Fortran\include\ia32

Intel FORTRAN 11.1.048

Path:

%ProgramFiles%\Intel\Compiler\11.1\048\Bin\ia32;%ProgramFiles(x86)%\Intel\Compiler\11.1\048\Bin\ia32

Lib:

%ProgramFiles%\Intel\Compiler\11.1\048\lib\ia32;%ProgramFiles(x86)%\Intel\Compiler\11.1\048\lib\ia32

Include:

%ProgramFiles%\Intel\Compiler\11.1\048\include\ia32;%ProgramFiles(x86)%\Intel\Compiler\11.1\048\include\ia32

Intel FORTRAN 11.1.051

Path:

%ProgramFiles%\Intel\Compiler\11.1\051\Bin\ia32;%ProgramFiles(x86)\Intel\Compiler\11.1\051\Bin\ia32

Lib:

%ProgramFiles%\Intel\Compiler\11.1\051\lib\ia32;%ProgramFiles(x86)\Intel\Compiler\11.1\051\lib\ia32

Include:

%ProgramFiles%\Intel\Compiler\11.1\051\include\ia32;%ProgramFiles(x86)\Intel\Compiler\11.1\051\include\ia32

Intel FORTRAN 11.1.054

Path:

%ProgramFiles%\Intel\Compiler\11.1\054\bin\IA32;%ProgramFiles(x86)\Intel\Compiler\11.1\054\bin\IA32

Lib:

%ProgramFiles%\Intel\Compiler\11.1\054\LIB\IA32;%ProgramFiles(x86)\Intel\Compiler\11.1\054\LIB\IA32

Include:

%ProgramFiles%\Intel\Compiler\11.1\054\include\ia32;%ProgramFiles(x86)\Intel\Compiler\11.1\054\include\ia32

Intel FORTRAN 11.1.060

Path:

%ProgramFiles%\Intel\Compiler\11.1\060\Bin\ia32;%ProgramFiles(x86)\Intel\Compiler\11.1\060\Bin\ia32

Lib:

%ProgramFiles%\Intel\Compiler\11.1\060\LIB\IA32;%ProgramFiles(x86)\Intel\Compiler\11.1\060\LIB\IA32

Include:

%ProgramFiles%\Intel\Compiler\11.1\060\include\ia32;%ProgramFiles(x86)\Intel\Compiler\11.1\060\include\ia32

Intel FORTRAN 11.1.061

Path:

%ProgramFiles%\Intel\Compiler\11.1\061\bin\IA32;%ProgramFiles(x86)\Intel\Compiler\11.1\061\bin\IA32

Lib:

%ProgramFiles%\Intel\Compiler\11.1\061\LIB\IA32;%ProgramFiles(x86)%\Intel\Compiler\11.1\061\LIB\IA32

Include:

%ProgramFiles%\Intel\Compiler\11.1\061\include\ia32;%ProgramFiles(x86)%\Intel\Compiler\11.1\061\include\ia32

Intel FORTRAN 11.1.065

Path:

%ProgramFiles%\Intel\Compiler\11.1\065\bin\IA32;%ProgramFiles(x86)%\Intel\Compiler\11.1\065\bin\IA32

Lib:

%ProgramFiles%\Intel\Compiler\11.1\065\lib\IA32;%ProgramFiles(x86)%\Intel\Compiler\11.1\065\lib\IA32

Include:

%ProgramFiles%\Intel\Compiler\11.1\065\include\ia32;%ProgramFiles(x86)%\Intel\Compiler\11.1\065\include\ia32

Intel FORTRAN 11.1.067

Path:

%ProgramFiles%\Intel\Compiler\11.1\067\bin\IA32;%ProgramFiles(x86)%\Intel\Compiler\11.1\067\bin\IA32

Lib:

%ProgramFiles%\Intel\Compiler\11.1\067\lib\IA32;%ProgramFiles(x86)%\Intel\Compiler\11.1\067\lib\IA32

Include:

%ProgramFiles%\Intel\Compiler\11.1\067\include\ia32;%ProgramFiles(x86)%\Intel\Compiler\11.1\067\include\ia32

Intel FORTRAN 11.1.070

Path:

%ProgramFiles%\Intel\Compiler\11.1\070\bin\IA32;%ProgramFiles(x86)%\Intel\Compiler\11.1\070\bin\IA32

Lib:

%ProgramFiles%\Intel\Compiler\11.1\070\lib\IA32;%ProgramFiles(x86)%\Intel\Compiler\11.1\070\lib\IA32

Include:

%ProgramFiles%\Intel\Compiler\11.1\070\include\ia32;%ProgramFiles(x86)%\Intel\Compiler\11.1\070\include\ia32

Intel Composer XE 2011 Updates 1-5

Path:

%ProgramFiles%\Intel\ComposerXE-2011\bin\IA32;%ProgramFiles(x86)%\Intel\ComposerXE-2011\bin\IA32

Lib:

%ProgramFiles%\Intel\ComposerXE-2011\compiler\lib\IA32;%ProgramFiles(x86)%\Intel\ComposerXE-2011\compiler\lib\IA32

Include:

%ProgramFiles%\Intel\ComposerXE-2011\compiler\include\ia32;%ProgramFiles(x86)%\Intel\ComposerXE-2011\compiler\include\ia32

Intel Composer XE 2011 Updates 6-7

Path:

%ProgramFiles%\Intel\Composer XE 2011 SP1\bin\IA32;%ProgramFiles(x86)%\Intel\Composer XE 2011 SP1\bin\IA32

Lib:

%ProgramFiles%\Intel\Composer XE 2011 SP1\compiler\lib\IA32;%ProgramFiles(x86)%\Intel\Composer XE 2011 SP1\compiler\lib\IA32

Include:

%ProgramFiles%\Intel\Composer XE 2011 SP1\compiler\include\ia32;%ProgramFiles(x86)%\Intel\Composer XE 2011 SP1\compiler\include\ia32



GSE POWER SYSTEMS
SIMULATION AND TRAINING SOLUTIONS

GSE Power Systems, Inc.

1332 Londontown Blvd, Suite 200

Sykesville, Maryland 21784 USA

T +1 410.970.7800

F +1 410.970.7997

www.gses.com