



Getting Started Guide

Version 3.0

March 2010

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acslX Getting Started Guide

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Welcome to acslX

1 Product Overview

acslX is a modeling, execution, and analysis environment for continuous dynamic systems and processes. Simple to learn and easy to use, acslX provides an intuitive environment for users at all levels and is versatile and powerful enough to address the most challenging simulation problems.

Ready-to-use code blocks enable quick model assembly, while powerful analysis capabilities provide quick and accurate results. Industry-specific toolkits are tailored to the needs of each customer.

Its flexible, open architecture allows acslX models to be easily integrated with in-house or third-party applications. acslX provides both graphical and text-oriented model representation environments that give you full visibility and control of your models. With acslX, you work easily and efficiently to achieve quick and accurate results.

acslX improves your modeling and simulation productivity through efficient development of powerful modeling applications, easy integration with existing applications and systems, and robust analysis features. Best of all, acslX helps you present and preserve your findings so you continue to capture value for your work well into the future.

The predecessor to acslX, ACSL, was one of the first commercially available modeling and simulation languages designed for simulating continuous systems. ACSL has been tested and verified with over 25 years of continuous use by the world's most demanding simulation professionals.

2 Install, Configure, Remove acslX

2.1 System Requirements

This section lists the hardware and software requirements for installation of acslX.

2.1.1 Minimum System Requirements

To install and run acslX, the computer system must meet the following minimum requirements:

Operating System

- Microsoft Vista, Microsoft Windows XP or Microsoft® Windows® 2000
- Latest Windows service pack and critical updates available from Microsoft Windows Update Web page

CPU Requirements

- Pentium 4 @ 2 GHZ or equivalent

Minimum RAM Requirements

- 512 MB (or higher recommended)

Hard Disk

- Hard disk space required to install 300 MB
- Hard disk space required to operate 150 MB

Display

- 1024 x 768, 32 bit color recommended

Network

- Network card required for its unique hostid (MAC address) to enable the licensing system. Computer system does not have to be connected to a network.

Input Device

- Microsoft mouse or compatible pointing device

Other

- Microsoft Internet Explorer® 6.0 or later is required
- Microsoft.NET Framework 1.1 or later is required

2.2 Required 3rd Party Components

acslX is built on top of Microsoft's .NET framework and thus requires the framework to be installed prior to operation. The installation and version of Microsoft.NET Framework is automatically checked when installing acslX.

Internet Explorer version 6 or later is also required by acslX. To download the latest versions visit the www.microsoft.com.

2.3 Installing acslX

To install acslX double click on the axsetup_2.5.x.x.exe file that was either downloaded from the acslX.com website or found on the acslX CD-ROM.

NOTE: users of Microsoft Windows Vista are strongly encouraged to change the default installation location of acslX to C:\acslX in order to avoid difficulties arising from write-protections for the Program Files for standard user accounts.

2.4 Additional Information and Updates

For information about the product, upcoming events and available services please check the acslX website at www.acslX.com.

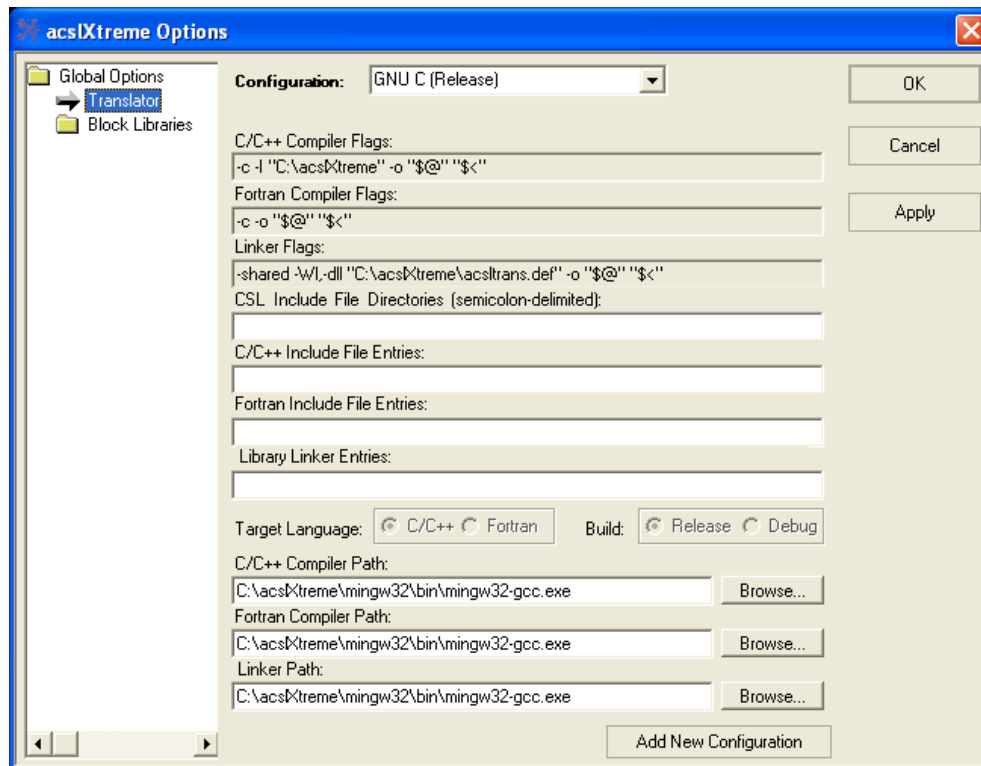
As we are continuously improving acslX, it is recommended that you check the website often for new releases and updates.

2.5 Configuration

2.5.1 Compiler Support

acslX provides and installs GNU C as the default compiler. acslX also supports Visual Studio.NET C++ (v7), Compaq Digital Fortran (v6.5) and Visual Studio C++ (v6) compilers.

To access the acslX translator options dialog box, choose the **Edit > Options...** menu item in acslX. Select the **Translator** option. The following dialog box will be displayed.



The default configuration is the GNU C compiler. The paths for this configuration were setup during installation. To choose a different configuration, scroll down the configuration list and choose the desired compiler and confirm that the compiler and linker paths and flags point to the proper locations. GNU C is the only compiler supplied on the distribution CD with acsIX.

acsIX uses the command line version of the supported compilers (VS v6, VS.NET, Compaq Visual Fortran v6.5). Special libraries are required for the command line version and the path to these libraries **are not added** by default when the compilers are installed.

In order to use these specific compiler options, adding the correct path to the system environmental variables may be required. Listed below is the library each compiler requires along with the default path to that library.

Compaq Visual Fortran: MSPDB60.DLL

C:\Program Files\Microsoft Visual Studio\Common\MSDEV98\BIN

MS Visual Studio, v6: MSPDB.DLL

C:\Program Files\Microsoft Visual Studio\Common\MSDEV98\BIN

MS Visual Studio .NET, v7: MSPDB70.DLL

C:\Program Files\Microsoft Visual Studio .NET\Common7\IDE

MS Visual Studio .NET 2003: MSPDB71.DLL

C:\Program Files\Microsoft Visual Studio .NET 2003\Common7\IDE

See your system administrator for information on how to set system environmental variables.

2.5.2 IDE configuration

acslX employs a user-friendly Integrated Development Environment (IDE). By the very nature of the application, acslX is required to manage a large and diverse set of information requiring multiple windows. acslX's window management and docking capability allows for management of this information in a friendly manner while providing instant access to everything required to design, build, execute and analyze models and simulations. It is important to be familiar with acslX's docking windows before proceeding with the application.

It is recommended to review the acslX User's Guide prior to working through the following examples. Please STOP now and review Chapter 2 of the User's Guide. This guide can be found on the installation CD or in the documentation folder of acslX's installation directory.

Note that acslX has a default window configuration and this can be customized by the user and will be saved when exiting acslX.

2.6 Removing acslX

Always use the **Add or Remove Programs** utility to uninstall the acslX software and to ensure that all the installed software components are correctly removed. This will also remove the acslX settings from the Windows Registry.

1. To uninstall the software, click **Start > Control Panel**
2. Double-click **Add or Remove Programs**.
3. Select **acslX** from the list of installed software and select the **Remove** button.

3 Registration and Licensing

acslX has four different license types: Trial License, Single User License (SUL), Multi User License (MUL), and Floating Network License (FNL). SUL and MUL are controlled through the same licensing process that is described in chapter 3.2.

3.1 Trial License

acslX is configured with a one-time trial license that will be valid for fourteen (14) days beginning at the time of the initial installation of acslX.

3.2 Single User and Multi User License

The only step to complete for a Single User or Multi User License is to request a license key file and to place it into the acslX installation directory (by default C:\Program Files\Aegis Technologies\acslX).

3.2.1 Requesting and Saving the License Key File for SUL or MUL

Contact License Support via one of the following methods to request a license key file:

E-Mail:

- License@AEgisTG.com

Phone:

- (256) 922-0802

Fax:

- (256) 922-0904

3.3 Floating Network License

3.3.1 Requesting and Saving the License Key File for FNL

Contact License Support via one of the following methods to request a license key file:

E-Mail:

- License@AEgisTG.com

Phone:

- (256) 922-0802

Fax:

- (256) 922-0904

3.3.2 Setting up the License Server for Floating Network License

The acslX Floating Network License requires FLEXlm® version 8.0 or later to be installed on the license server.

To review information about FLEXlm, see Macrovision® Software's website at:

<http://www.macrovision.com>

Also, the current version of the FLEXIm End User's Manual can be found in the PDF format on the acslX installation CD or the latest version can be found at the website listed above.

In the case of a FLEXIm error message, please refer to the FLEXIm End User's Manual for complete explanation.

The acslX product CD-ROM provides the FLEXIm distribution files to run a License Manager on a Windows 32-bit operating system. The required files are located in a folder called **\FLEXIm Server\i86_n3**.

The FLEXIm distribution files consist of the following:

lmgrd.exe	The license manager daemon
lmtools.exe	GUI based FLEXIm utility program (Windows Version only)
lmutil.exe	Command line based utility program
aegissim.exe	AEgis' vendor daemon

3.3.3 Setting up the FLEXIm Directory

Before beginning this section, determine whether the license server has FLEXIm 8.0 or higher installed. The following instructions apply to both PC and UNIX installations.

1. For a new installation, create a new directory for the FLEXIm files. If a previous installation of FLEXIm 8.0 or higher exists, find the folder on the license server where the lmgrd.exe file is located.
2. Insert the acslX products CD into the CD-ROM drive and access the CD-ROM drive, and browse to the **\FLEXIm Server\i86_n3** folder.

or

2. Download the the FLEXIm files from the [Tech Support Download](#) site.
3. Copy all of the files in **FLEXIm\i86_n3** to the folder created in step 1 on the server. If a previous installation of FLEXIm 8.0 or higher exists, copy only the "aegissim.exe" file from the CD to the folder on the server.


3.3.4 Starting the FLEXIm License Server

Refer to the FLEXIm End User's Manual, Chapter 6, The License Manager Daemon, for detailed instructions on starting the FLEXIm License Server.

4 acslX Examples

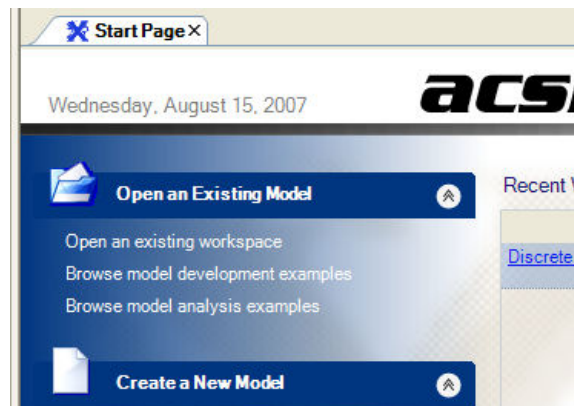
This chapter will demonstrate how to open and run several examples provided with the acslX software. Multiple example files are located in the **Example** folder located in the installation directory. It is assumed that the user has reviewed Chapter 2 of the acslX User's Guide.

4.1 Starting acslX

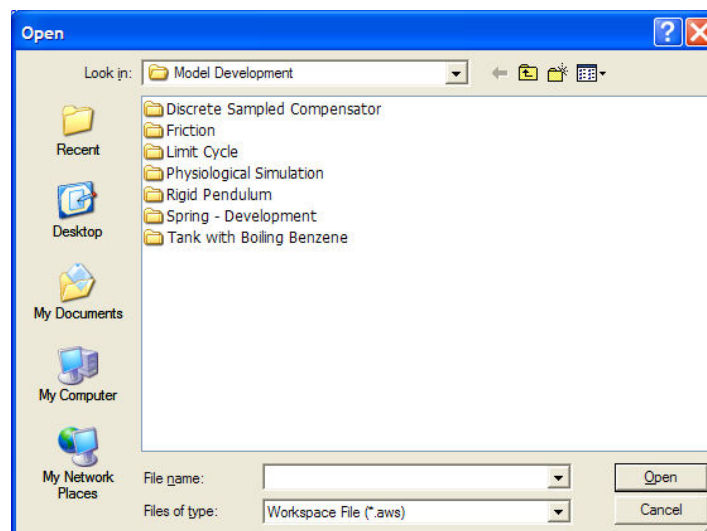
1. Select **Start > Program Files > acslX > acslX** or click on the acslX Icon on the desktop 

4.2 Spring Example (CSL language model)

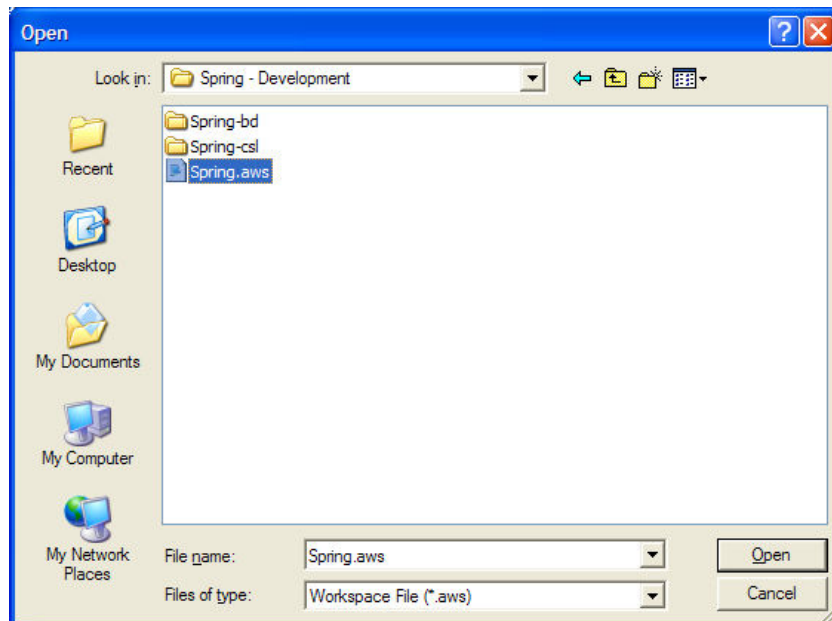
1. After acslX has started, click on **Browse Model Development Examples** on the Start Page.



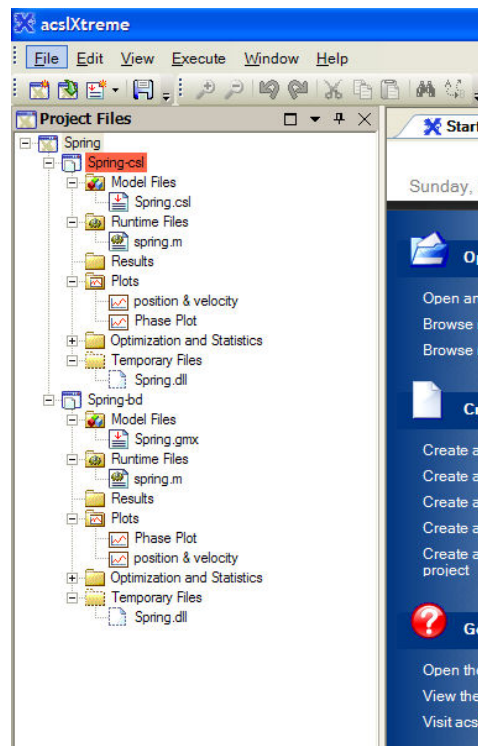
2. Open the **Spring** folder by double clicking on the folder icon next to the folder name.



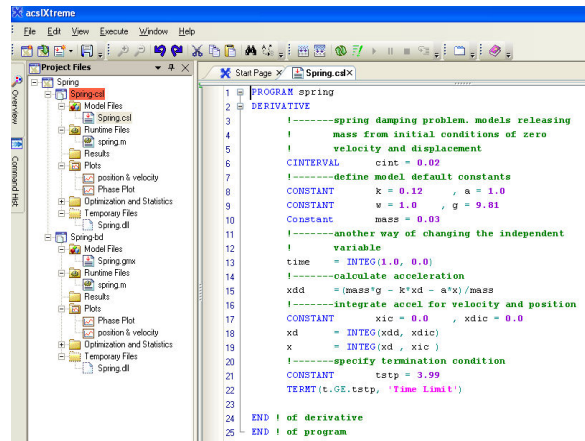
3. Select the Workspace file "Spring.aws", then click the **Open** button.



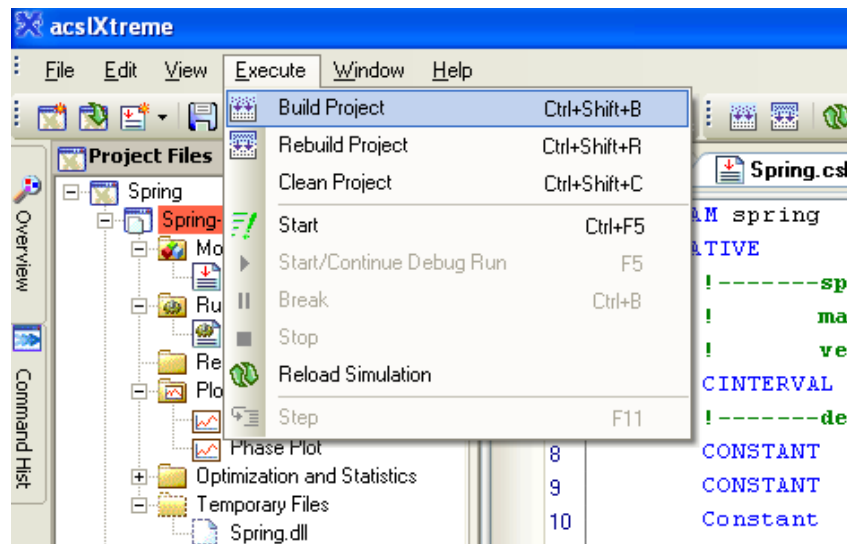
4. The tree structure populates with the project and all existing related files. The Spring model contains both a CSL and block diagram model.



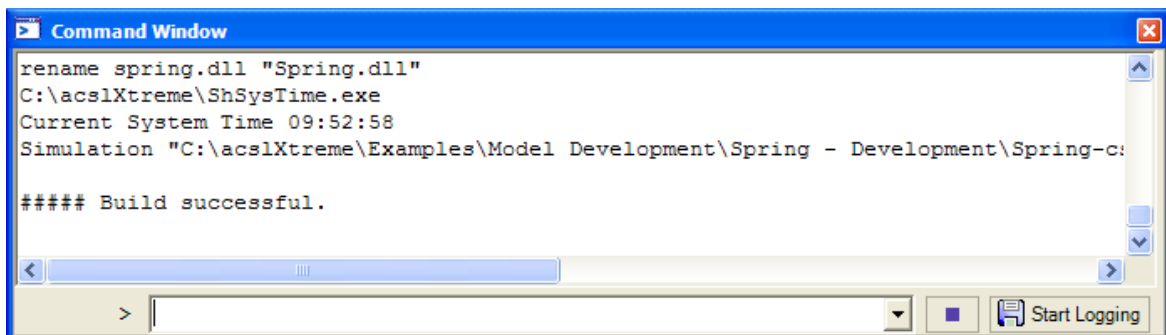
5. Double-click on the "Spring.csl" file in the treeview; this will open the file containing the csl code.




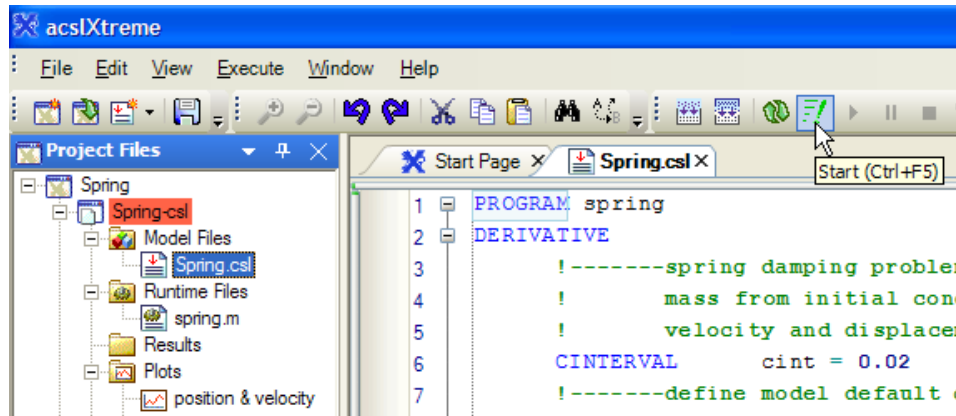
6. Click on the **Execute** menu and choose the **Build Project** option



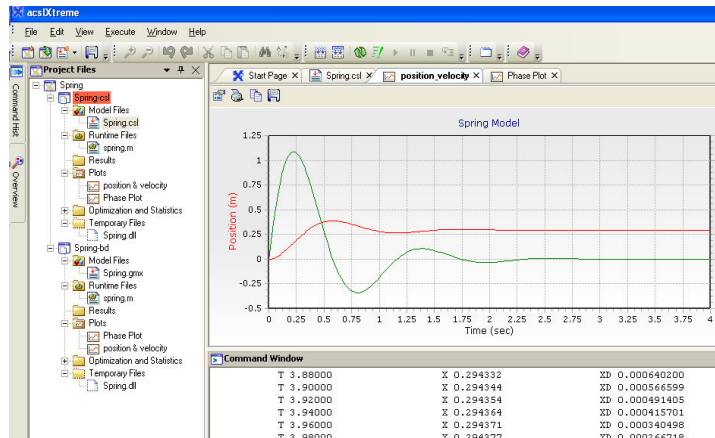
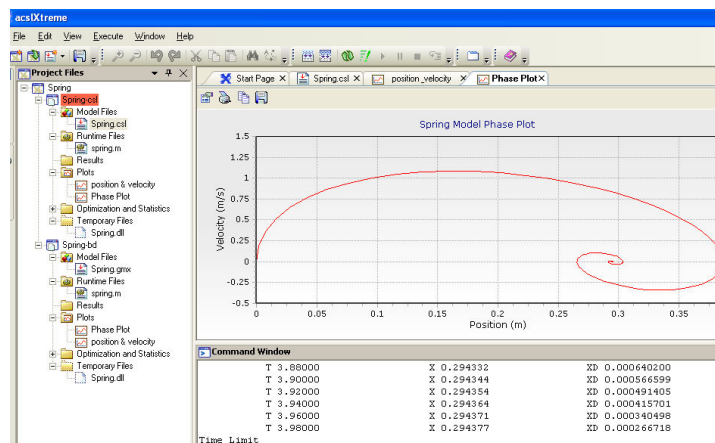
7. Information from the Translation and Build stage can be seen in the **Command Window**.



8. After the Build Successful message is displayed, click on the start icon  to execute the simulation.



9. Two plot objects will appear. To view the second plot, click on the non-highlighted **Plot** tab located near the spring-csl tab

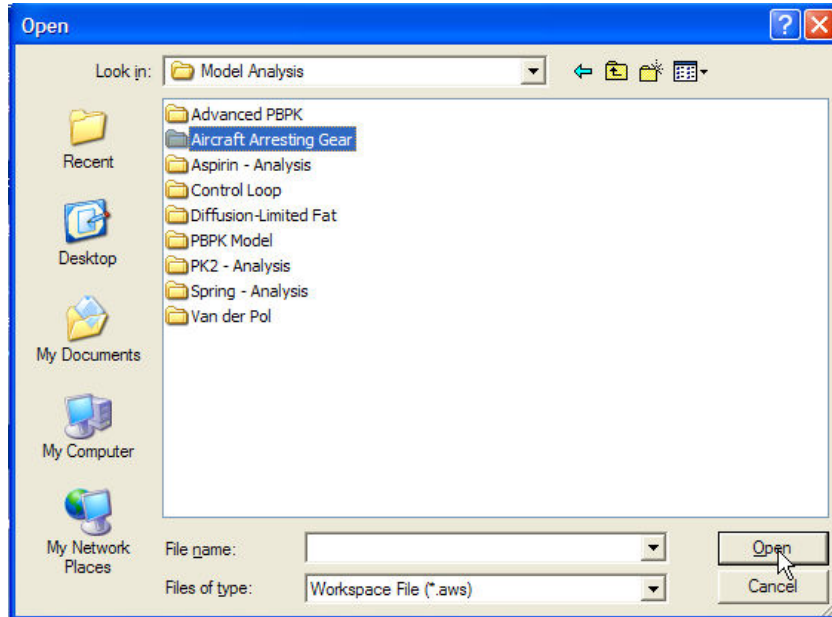


Editing the plot window is discussed in more detail in the acslX User's Guide.

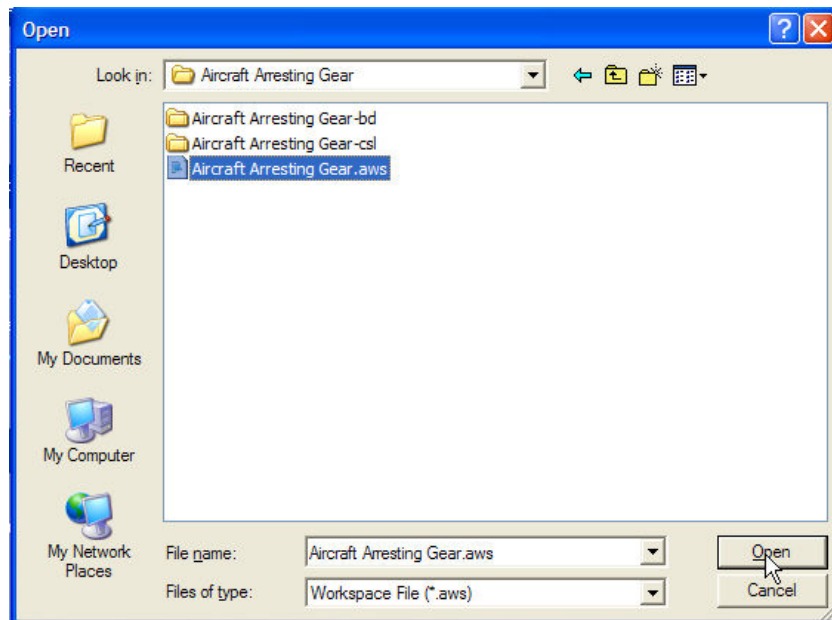
10. Select **File > Close Workspace** to exit the spring workspace.

4.3 Aircraft Arresting Gear Example (Block Diagram Model)

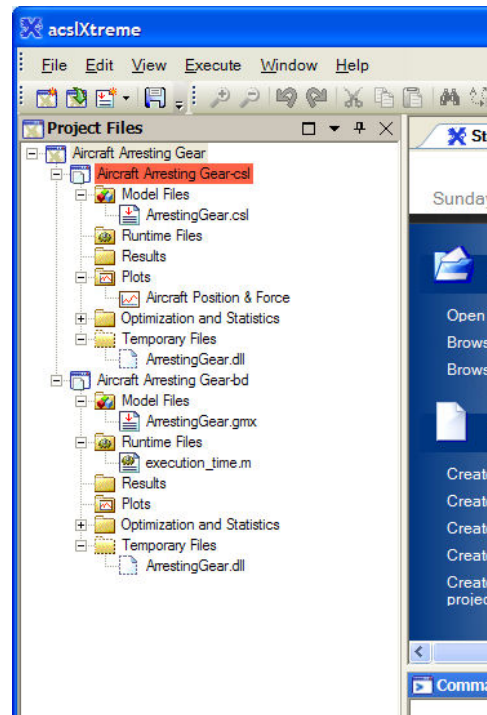
1. Click on **Browse Model Analysis Examples** on the Start page.
2. Select the "Aircraft Arresting Gear" folder.



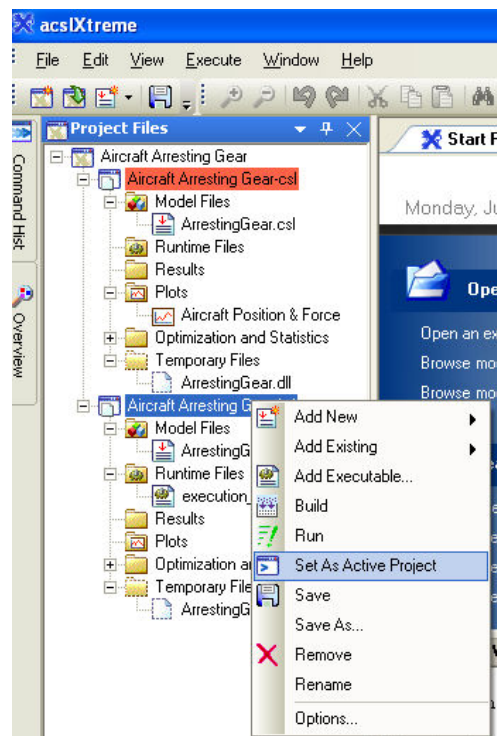
3. The **Open** window displays:



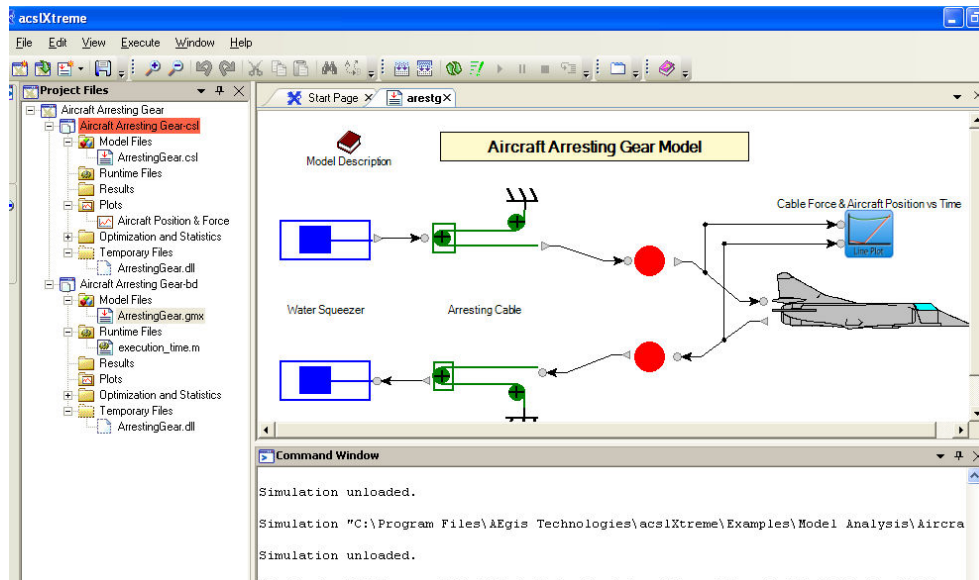
4. Select the Workspace file "Aircraft Arresting Gear.aws".
5. Click the **Open** button or double-click the icon next to the workspace name. The tree structure populates with the project and all existing related files. This workspace contains both a CSL and a block diagram project.



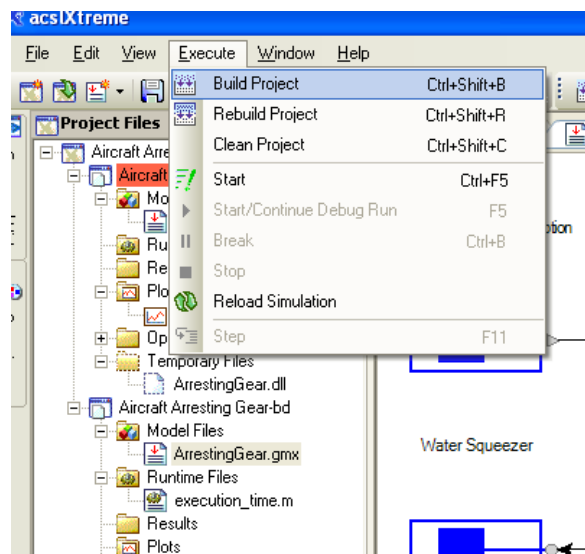
6. acsIX allows multiple projects in each workspace. The active project is currently Aircraft Arresting Gear-csl, it is highlighted in red. To switch the active project to the block diagram version, right click on Aircraft Arresting Gear-bd and choose **Set As Active Project**.



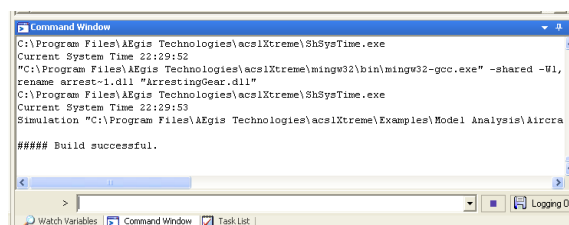
7. Double click on the "aresting.gmx" file and it will open into the fixed work area.



8. Click on the **Execute** menu and choose the **Build Project** option



9. Information from the Translation and Build stage can be seen in the **Command** window.




10. The **Command Window** displays the simulation control prompt. From this command line the user can access and set model variables and run the simulation. Entering **output T** at the prompt will print out the variable **t** (time) to the screen while the simulation is running.

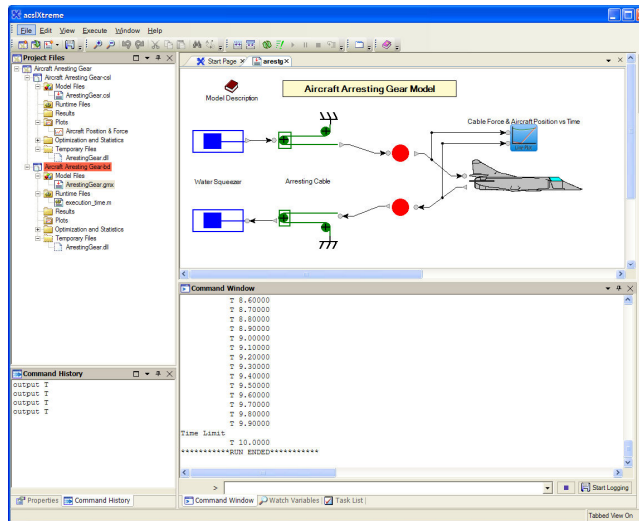
```

Command Window
C:\Program Files\AEgis Technologies\acslXtreme\ShSysTime.exe
Current System Time 22:29:52
"C:\Program Files\AEgis Technologies\acslXtreme\mingw32\bin\mingw32-gcc.exe" -shared -Wl,
rename arrest-1.dll "ArrestingGear.dll"
C:\Program Files\AEgis Technologies\acslXtreme\ShSysTime.exe
Current System Time 22:29:53
Simulation "C:\Program Files\AEgis Technologies\acslXtreme\Examples\Model Analysis\Aircra

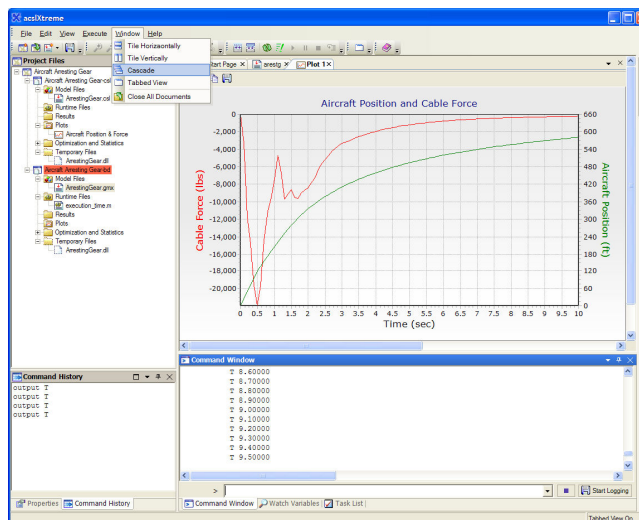
#### Build successful.

```

11. Type '**start**' at the command prompt, or press the  icon to run the simulation. Click on the **Command Window** tab to see the time increment scroll as the simulation runs.



12. Now go to the diagram work area for arestg and double click on the **Plot** block. Select the **Window > Cascade** menu item to undock the view and allow the windows to be moved and resized as desired.




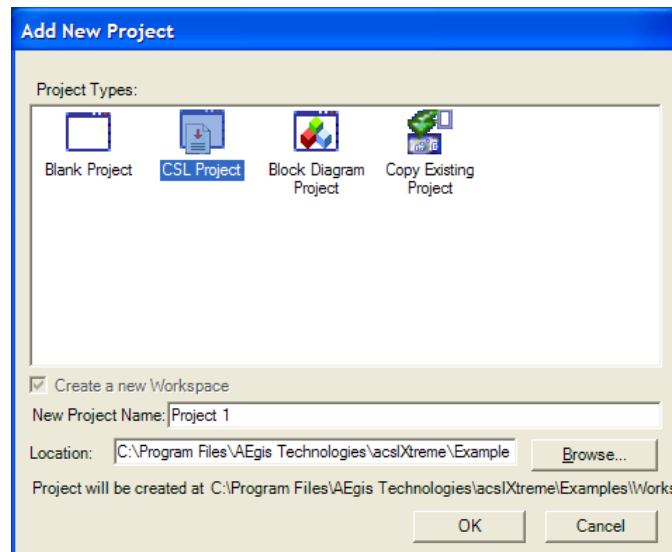
13. Click on **File > Close Workspace** to exit the Aircraft Arresting Gear workspace.

5 Working with acsIX

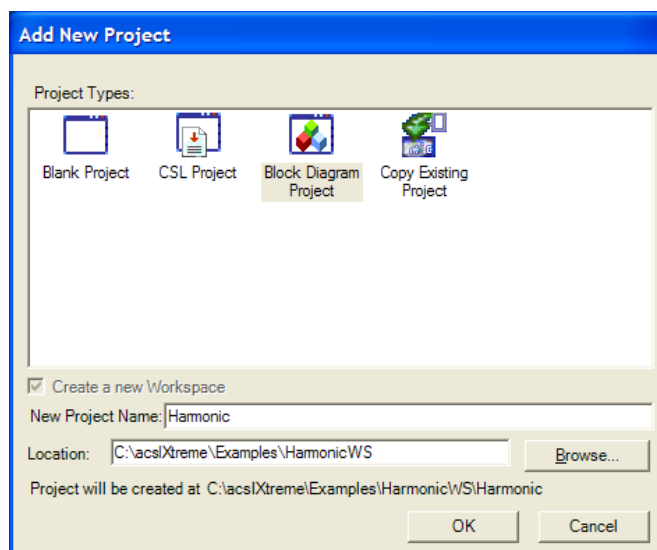
This chapter outlines the basics for maneuvering through acsIX to build and run new models. The following steps will guide the user in the development of a simple harmonic model.

5.1 Creating a Workspace

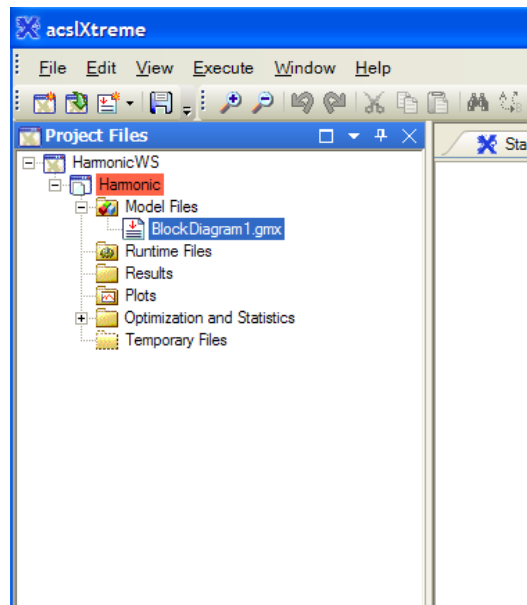
1. Start acsIX by clicking **Start > Programs > acsIX > acsIX** or click on the **acsIX** icon  on the desktop.
2. On the **File** menu, select **New Workspace**. The **Project Wizard** dialog displays.



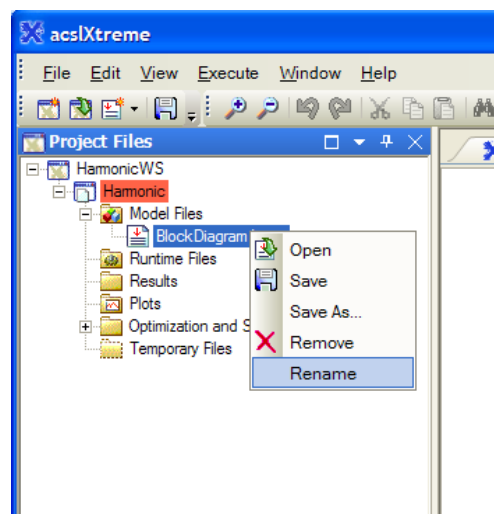
3. Select the **Block Diagram Project** icon and then enter the project name, **Harmonic** in the **Name** field. Enter **HarmonicWS** for the name and path of the desired workspace in the **Location** field and click **OK**.



4. This will create a workspace (**HarmonicWS**) that contains a block diagram project (**Harmonic**) and model file (**BlockDiagram1.gmx**).



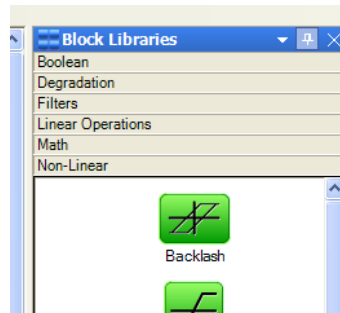
5. Right-clicking on any level in the Project Files tree structure will display actions that apply to that specific level of the tree.
6. Right-click on **BlockDiagram1.gmx** and select **Save**.
7. Right-click on **BlockDiagram1.gmx** and select **Rename** to change the name for the model to **HarmonicBD.gmx**.



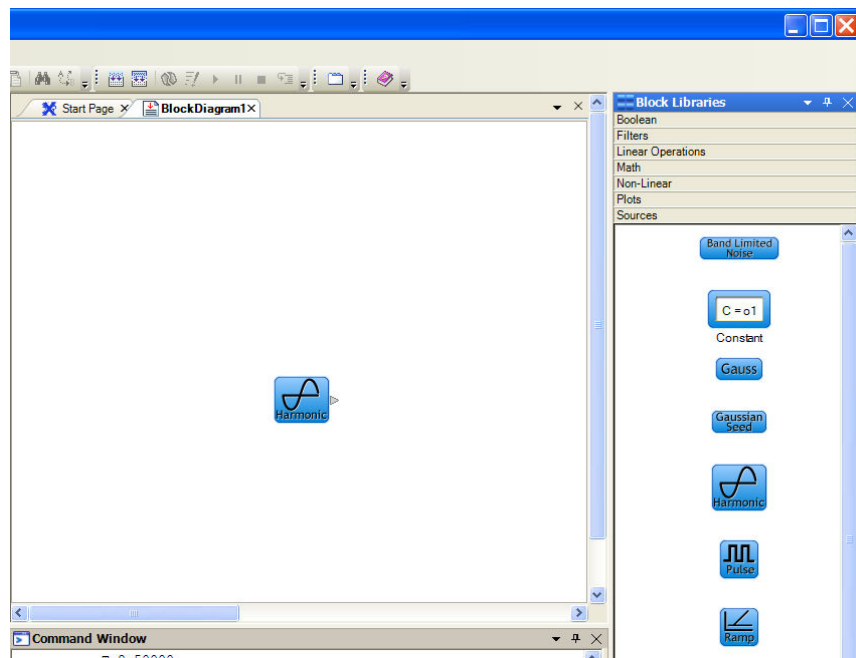
8. Double-click on the **HarmonicBD.gmx** file in the tree. The empty block diagram window will open in the **Start Page** work area and is ready for construction of the model.

5.2 Using the Block Libraries of PowerBlocks

1. acslX has the capability for retractable window views. If the Block Libraries view is retracted, place the mouse cursor over the **Block Libraries** tab that is in the upper right section of the screen; the **Block Libraries** view will appear. Since this will be used to create a model, click on the "pushpin" at the top of the view, this will keep the Libraries open while in use.

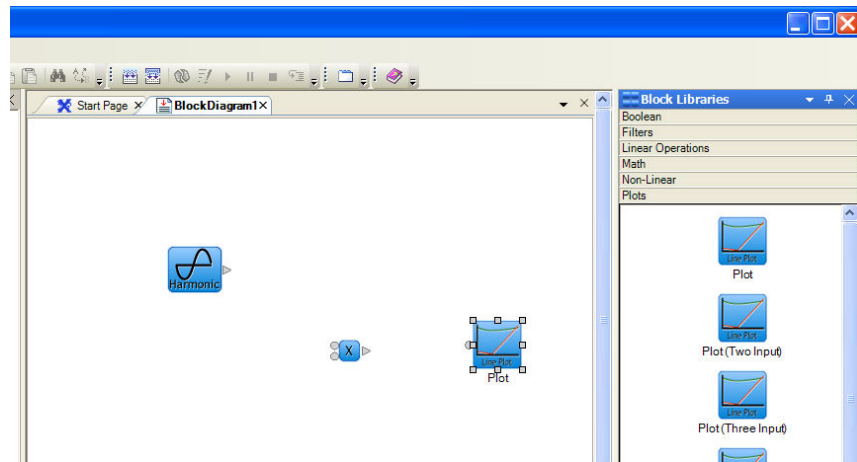


2. In the **Block Libraries** view, click on the **Sources** bar, locate and click on the **Harmonic** block and drag it to the diagram window.



3. From the **Block Libraries** view, click the **Math** library. Locate, click and drag the **Multiply** block into the diagram window.

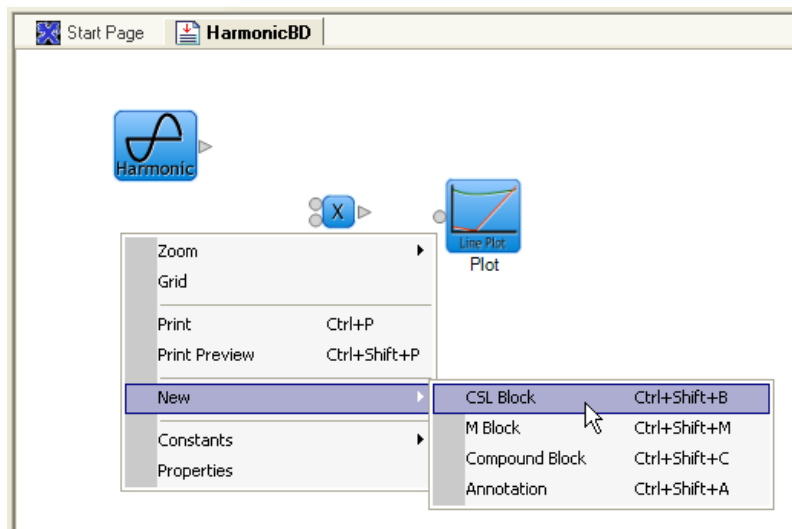
4. From the **Block Libraries** view, click the **Plots** library. Click and drag the **Plot** block into the diagram window



5. Click on the "pushpin" to the right of the **Block Libraries** title bar, this will allow the libraries view to retract when not in use.

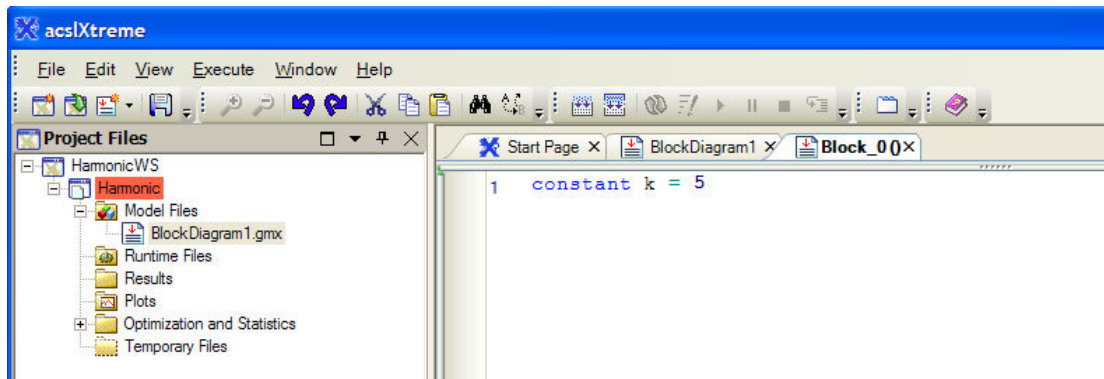
5.3 Creating a New Block

1. Create a new block by right-clicking in the background of the diagram work area and choosing **New > CSL Block**.

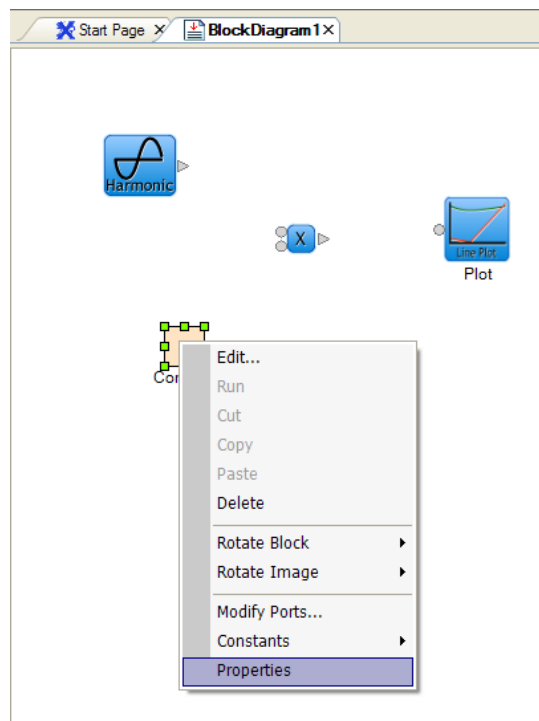


2. Double-click on the **Block** that was just created. This will display the code editor.

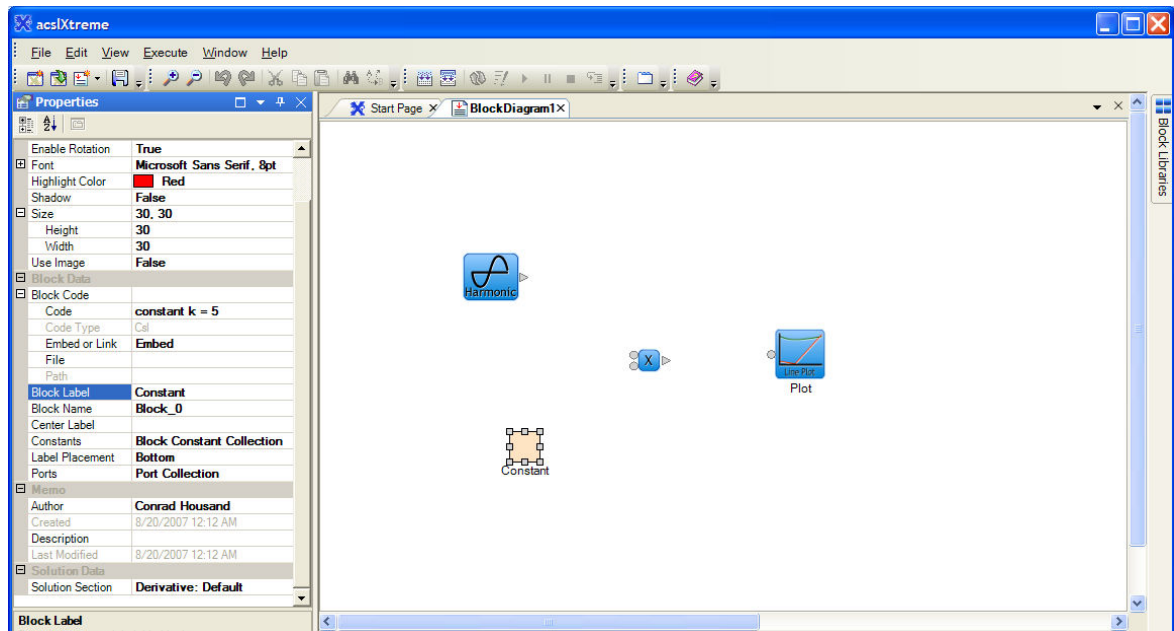
3. Click in the **Block Code Editor** window, then type the following line: **Constant k =**
5. Exit the code editor window by clicking the **X** in the upper-right corner of the window.



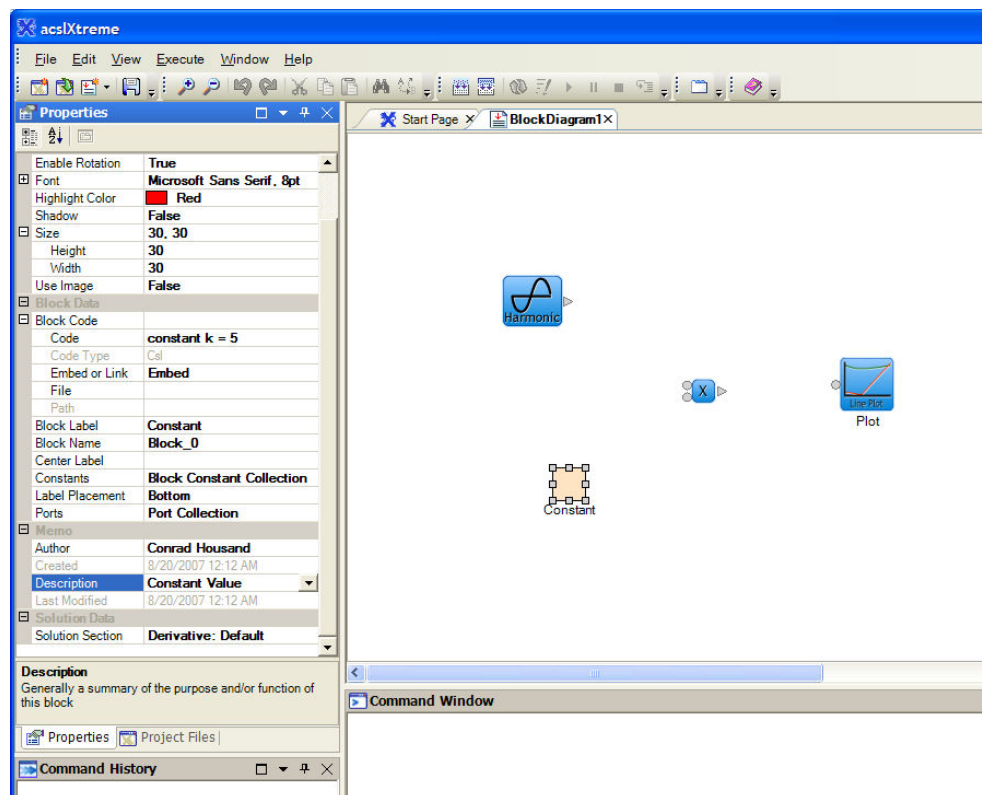
4. Right click the new **Block** in the diagram and select **Properties**, the **Properties** view containing the properties of the block will appear. All block attributes can be set from the **Properties** view including configuration of the block appearance, name, labels, ports, block type, constants, notes, etc.



5. Click on the **Block Label** in the **Properties** view and change the text from **Block** to **Constant**. Upon pressing enter, the label that appears under the block in the diagram view will change to **Constant**.

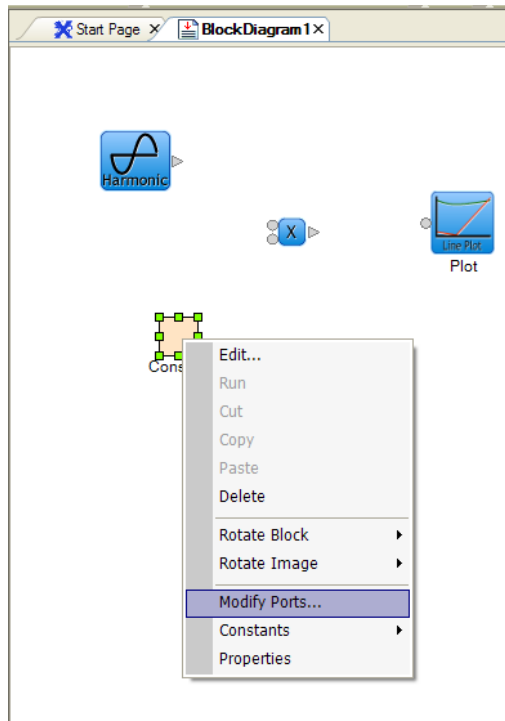


6. Click on the **Description** field under **Memo** in the **Properties** view and change the description to **Constant Value**.

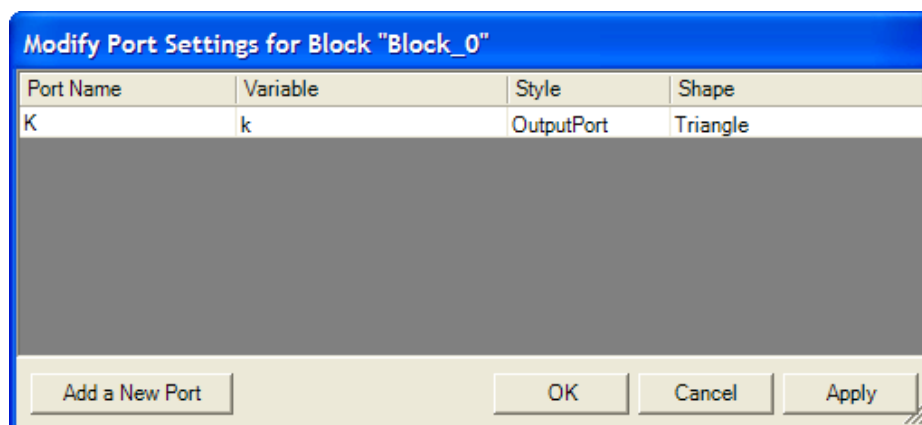


5.4 Adding Ports

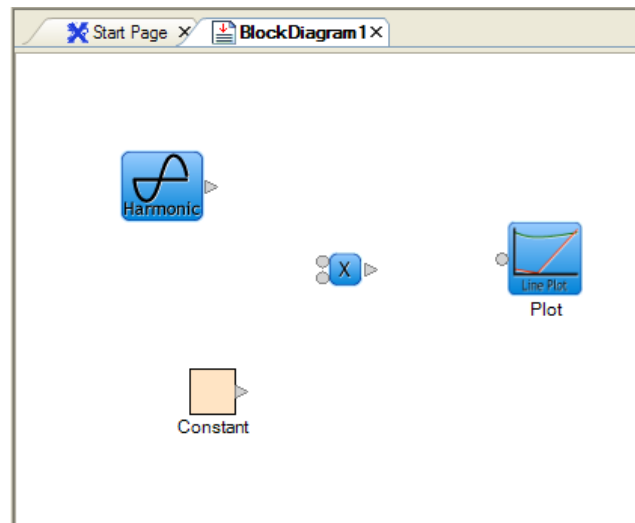
1. To add an output port to the **Constant Block**, right-click on the block, then click **Modify Ports** from the pop-up menu. This displays a dialog box that controls the port assignments and properties.



2. Click on the button **Add a New Port**. A line with default values displays.
3. First, in the **Style** column, click on the text, InputPort, to choose the type of port (input or output) from the drop down list - select **Output**. This initial selection allows the variables that are displayed in the **Variable(s)** column to be filtered by the given type. Now edit the **Variable(s)** column to assign the port to a variable contained in the block code using the pull down selection, choose **k**. In the **Port Name** column type the name of the port, **K**. Click on the **Shape** column to change the shape of the output port to a **Triangle**.



4. Click the **OK** button. The port displays on the right side of the block.



5.5 Setting Constants

1. Click on the **Harmonic** block to select its properties. In the **Properties** window, click on the **Constants** field, then click on the "..." to the right of the **Constants** field. This will cause the **Block Constant Values** table to be displayed.

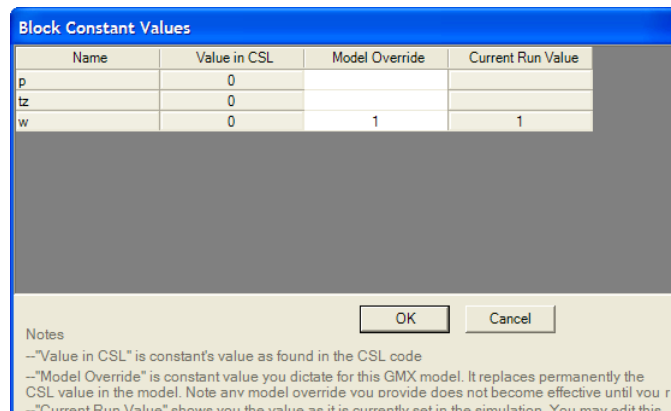
Block Constant Values			
Name	Value in CSL	Model Override	Current Run Value
p	0		
tz	0		
w	0		

Notes

--"Value in CSL" is constant's value as found in the CSL code
--"Model Override" is constant value you dictate for this GMX model. It replaces permanently the CSL value in the model. Note any model override you provide does not become effective until you r
--"Current Run Value" shows you the value as it is currently set in the simulation. You may edit this

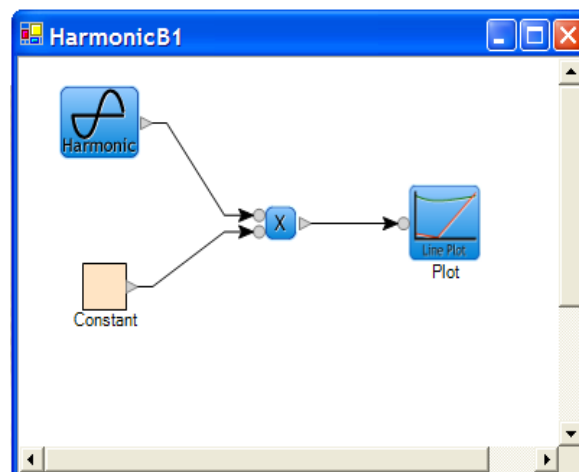
OK Cancel

2. Change the **Model Override** of **W** to **1**, Click the **Apply** button and then click the **OK** button. (Refer to the User's Guide for description of CSL Default, Model Override and Run Override values.)




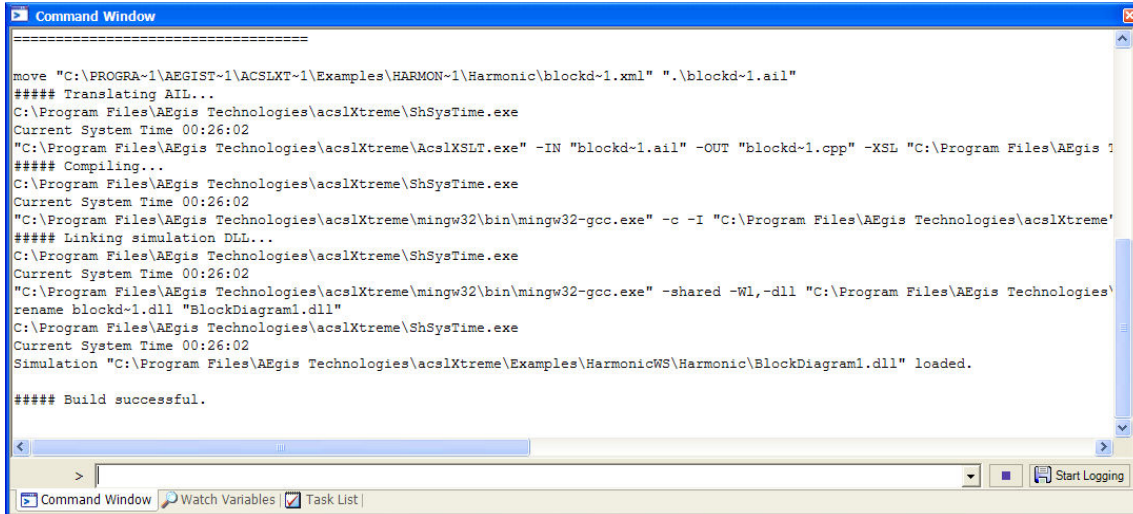
5.6 Wiring the Block Diagram

1. Click and drag a wire from the output port of the **Harmonic** block until it connects to the input port of the **Multiply** block. Repeat this process and wire the remaining ports together. Refer to the picture below for connections.




5.7 Building and Running the Model

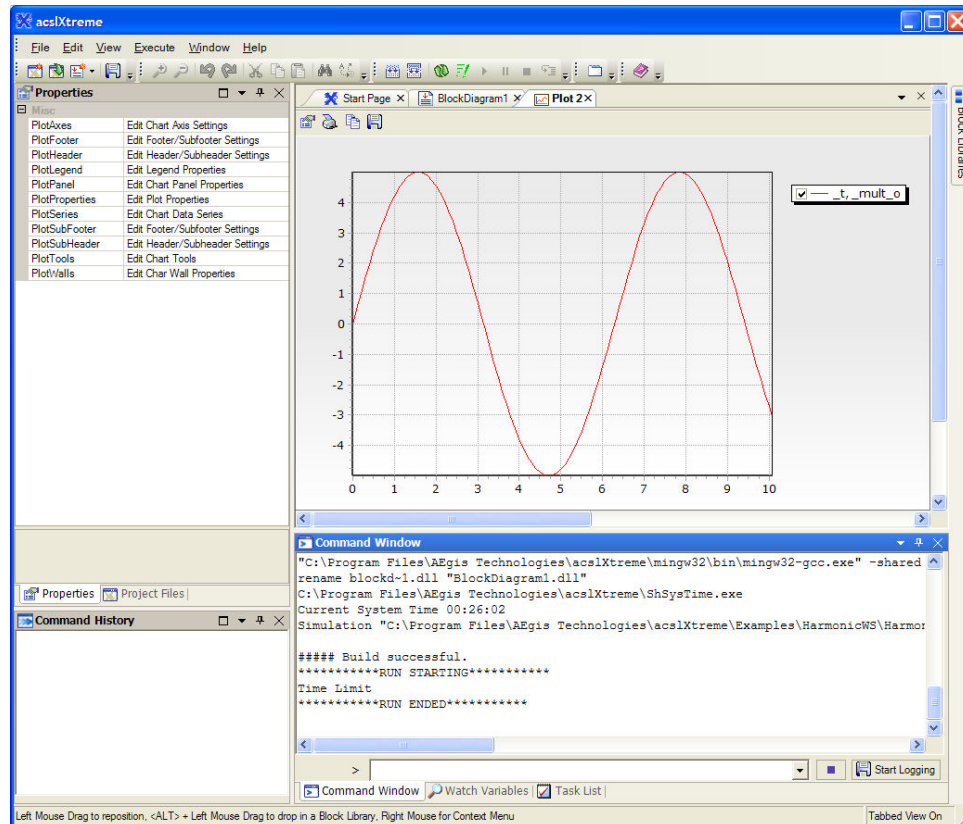
1. To build the model, click on the **Build** icon  located on the toolbar. Build-related information is displayed in the **Output** view as the translation and compilation occurs.



```
=====
move "C:\PROGRA~1\AEGIST~1\ACSLXT~1\Examples\HARMON~1\Harmonic\blockd~1.xml" ".\blockd~1.ail"
#### Translating AIL...
C:\Program Files\Aegis Technologies\acslXtreme\ShSysTime.exe
Current System Time 00:26:02
"C:\Program Files\Aegis Technologies\acslXtreme\AcslXSLT.exe" -IN "blockd~1.ail" -OUT "blockd~1.cpp" -XSL "C:\Program Files\Aegis Technologies\acslXtreme\AcslXSLT.xsl"
#### Compiling...
C:\Program Files\Aegis Technologies\acslXtreme\ShSysTime.exe
Current System Time 00:26:02
"C:\Program Files\Aegis Technologies\acslXtreme\mingw32\bin\mingw32-gcc.exe" -c -I "C:\Program Files\Aegis Technologies\acslXtreme\include" "blockd~1.cpp"
#### Linking simulation DLL...
C:\Program Files\Aegis Technologies\acslXtreme\ShSysTime.exe
Current System Time 00:26:02
"C:\Program Files\Aegis Technologies\acslXtreme\mingw32\bin\mingw32-gcc.exe" -shared -Wl,-dll "C:\Program Files\Aegis Technologies\acslXtreme\obj\blockd~1.o"
rename blockd~1.dll "BlockDiagram1.dll"
C:\Program Files\Aegis Technologies\acslXtreme\ShSysTime.exe
Current System Time 00:26:02
Simulation "C:\Program Files\Aegis Technologies\acslXtreme\Examples\HarmonicWS\Harmonic\BlockDiagram1.dll" loaded.

#### Build successful.
```

2. To run the model, click on the **Run** icon  located on the toolbar. The progress can also be monitored in the **Output** view. Once the run is complete, double-click on the **Plot** block. The **Plot** displays in a new tab in the workspace.





NOTE: The plot is not saved between work sessions. If the workspace is closed and then later reopened, the plot will need to be recreated after running by clicking on the plot block.

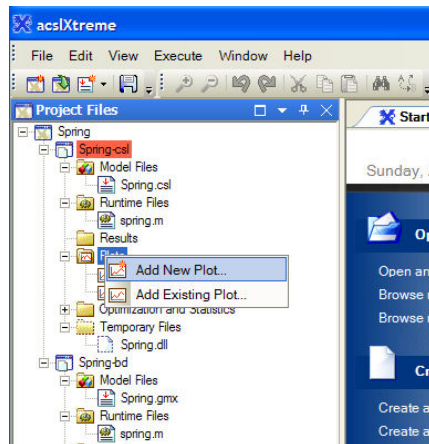
3. From the **File** menu, choose **Close** to close the workspace. At the build step the workspace was automatically saved. If you have made further changes since that point, a dialog box will prompt the user to save the workspace.
4. From the **File** menu, chose **Exit** to exit acsIX.

6 Plotting

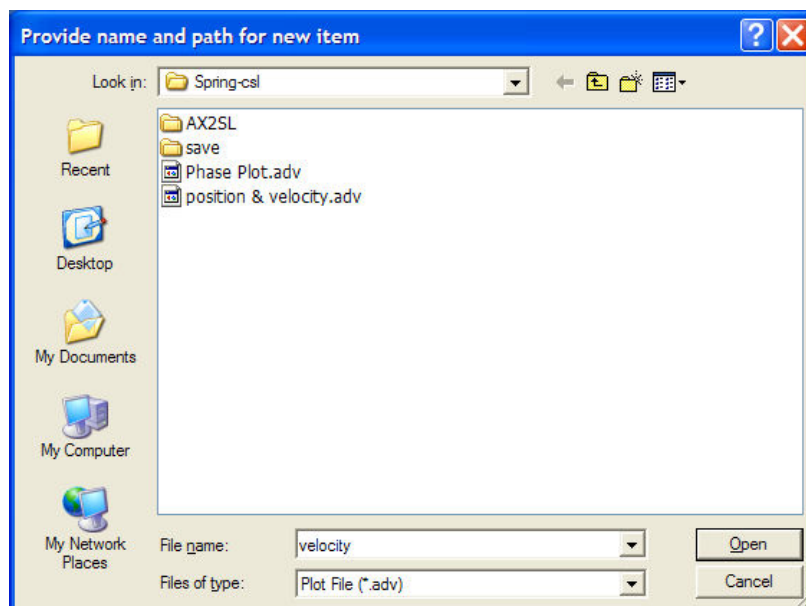
This chapter shows the basics for creating a plot in the Project File View and then accessing the plot editing tools. For further information on Plotting, see Chapter 5 in the acsIX User's Guide.

6.1 Creating plots

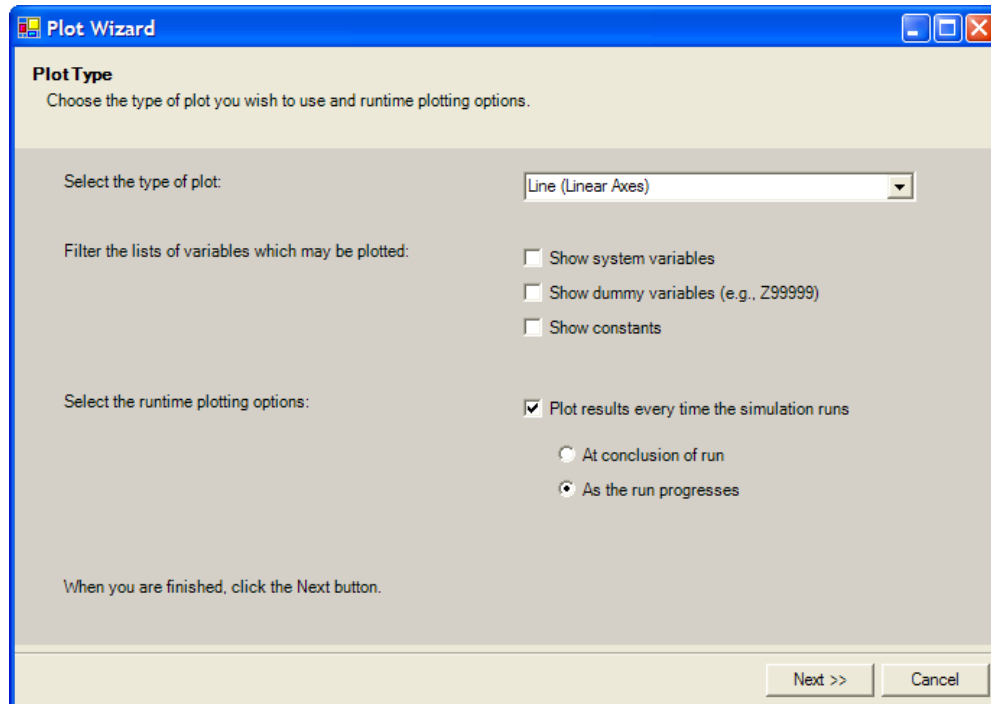
1. Start acsIX by clicking **Start > Programs > acsIX > acsIX** or click on the **acsIX** icon on the desktop 
2. Open the "Spring-csl" example (detailed in Section 4.2), then build the model by clicking the **Build** icon 
3. In the **Project Files** view, right-click on the **Plots** folder and choose **Add New Plot**.



4. The **Provide name and path for new item** dialog displays. In the **File name** field, type the name of the plot file, **Velocity**. Click the **Open** button.



5. The **Plot Wizard** displays and a new node for the plot appears in the tree view. Follow the prompts. For this example click the **Next** button to choose the default plot type.



Plot Wizard

Plot Type
Choose the type of plot you wish to use and runtime plotting options.

Select the type of plot: Line (Linear Axes)

Filter the lists of variables which may be plotted:

- ☐ Show system variables
- ☐ Show dummy variables (e.g., Z99999)
- ☐ Show constants

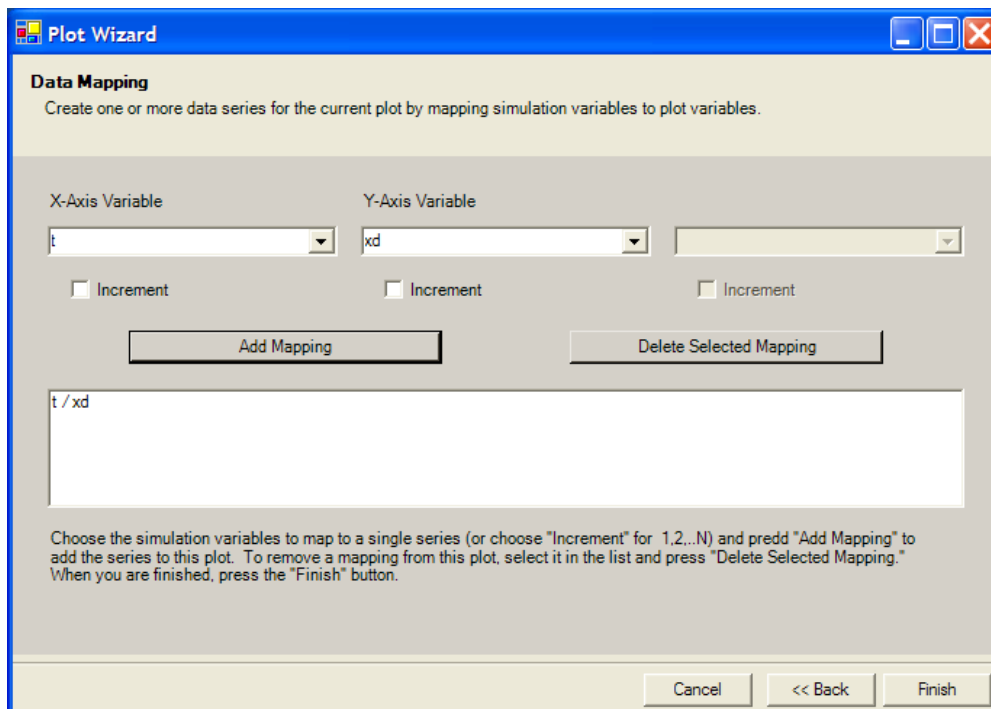
Select the runtime plotting options:

- ☒ Plot results every time the simulation runs
 - ☐ At conclusion of run
 - ☒ As the run progresses

When you are finished, click the Next button.

Next >> Cancel

6. In the **Data Mapping** dialog box choose the variables you want to plot. In the **Mapped to X** box choose the variable `t` and in the **Mapped to Y** choose the variable `xd`. Click the **Add Mapping** button, and then click the **Next** button. Follow the prompts and click "Finish" to close the **Plot Wizard**



Plot Wizard

Data Mapping
Create one or more data series for the current plot by mapping simulation variables to plot variables.

X-Axis Variable: t Y-Axis Variable: xd


☐ Increment ☐ Increment ☐ Increment

Add Mapping Delete Selected Mapping

t / xd

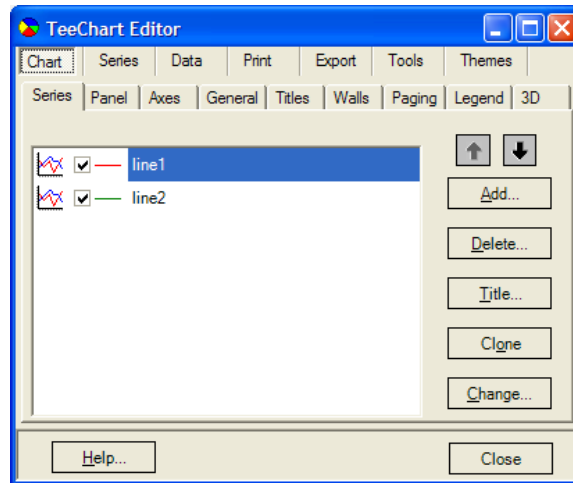
Choose the simulation variables to map to a single series (or choose "Increment" for 1,2,...N) and predd "Add Mapping" to add the series to this plot. To remove a mapping from this plot, select it in the list and press "Delete Selected Mapping."
When you are finished, press the "Finish" button.

Cancel << Back Finish

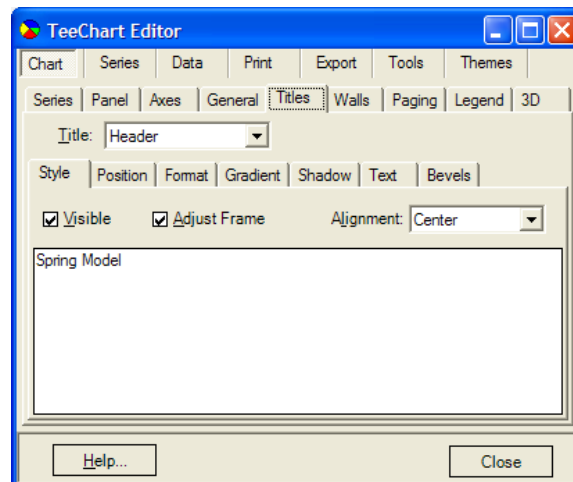
7. Click the run icon  and the plots will appear during runtime.

6.2 Plot Properties

1. Double-click on the background of the plot. This will display the **TeeChart Editor Properties** dialog box.



2. All the properties for the plots can be set from the plot **Editing** dialog box. Plots and/or data can also be exported in several standard formats.
3. For example; to change the title on the plot, click the **Title** tab and edit the text box. The title on the plot will change as you edit the text.



4. Close the **Editing** dialog window.
5. Close the workspace by using the menu **File > Close Workspace**.
6. **File > Exit** to exit acsIX.

7 Additional Information

7.1 acslX User's Guide

For detailed information on using acslX refer to the acslX User's Guide. The full User's Guide is available in PDF format on the installation CD and in the installation directory under Documentation. It is also available using acslX's Help function under menu **Help > acslX Help** and as a Start Page link '**Open the help contents**'.



7.2 Technical Support

Technical Support business hours are Monday through Friday, 9:00 AM to 5:00 PM, Eastern Time (US & Canada).

E-Mail

Questions can be sent directly via e-mail at support@AEgisTG.com to the technical support team.

For Technical Support questions and trouble reports about acslX, send email to: support@AEgisTG.com

Telephone

For telephone support, call The AEgis Technologies Group during normal business hours Monday through Friday, 9:00 AM to 5:00 PM, Eastern Time (US & Canada) at: (256) 922-0802.

FAX

You can also fax questions directly to the acslX technical support team. For technical support issues, be sure to list "acslX Support" as the recipient on the cover page. Fax questions to the following number: (256) 922-0904.