

SimPLE Installation Instructions

SimPLE (**S**imulated **P**rocesses in a **L**earning **E**nvironment) is an application framework for constructing simulation-based learning environments. Environments developed with SimPLE use dynamic simulations and visualizations to represent realistic time-dependent behavior and are coupled with guidance material and other software aids that facilitate learning. The software architecture enables independent contributions from developers representing educational content (e.g., simulation models, guidance materials) and software development (e.g., user interface). SimPLE provides a user interface template and accompanying software aids to reduce the software development effort. For more details, refer to <http://hcil.umd.edu/simple>.

Software Requirements

- Delphi 5.0 by Inprise (<http://www.inprise.com>)
- VisSim by Visual Solutions (<http://www.vissol.com>) - if you wish to use VisSim as a simulation engine
- Microsoft Internet Explorer (<http://www.microsoft.com>) - used to display the guidance material
- Microsoft Excel 2000 (<http://www.microsoft.com>) - if you wish to use Excel as a simulation engine

Installation

Begin by downloading the SimPLE Framework:

1. Download the SimPLE Framework from the CELS Download site and save to a temporary directory.
2. Double click on the downloaded *.exe file and extract the contents into a directory (e.g., c:\program files\simple)..

Now, install the SimPLE Toolkit (several Delphi 5.0 components used to create SimPLE environments):

1. Start Delphi 5.0.
2. Choose Component->Install Packages.
3. Click Add, select simple.bpl (located in the toolkit subdirectory where you extracted the files), and click Open.
4. Click OK to install the simple.bpl package. Several components will appear in a palette named SimPLE Toolkit. A few third part components will appear in their own palettes. The SimPLE components will include:
 - TDLLConnect
 - TErrorMessage
 - TGate
 - TValve
 - TThrottleValve
 - TWaferChamber

- TPressure
 - TPressureControl
 - TRealRange
 - TRealEdit
 - TSwitch
 - TLed
 - TGuidanceLinks
 - TParameterSetupDlg
 - THeatLamp
5. Choose Tools->Environment Options and click the Library tab.
 6. Add the toolkit library to the library path.
 - Click the '...' button next to the library path field.
 - Type in the toolkit\lib directory (e.g., c:\program files\simple\toolkit\lib) and click Add.
 - Close dialogs by clicking OK.

Now you are ready to begin using the SimPLE Application Framework (a Delphi 5.0 project) to create your own SimPLE environments. To use the framework to make your own application:

- Copy the framework subdirectory and rename accordingly.
- Load the framework.dpr file in Delphi 5.0.
- Start customizing your project.

WARNING: The SimPLE framework is no longer being actively developed and is made available "as-is". Developer documentation is not available; see guidance material included with framework for pointers.