

GEDAE Quick Install For Windows – March 5, 2008

System Requirements

Windows NT/2000/XP/Vista platform requirements:

- Visual C++ (must be 6.0 or greater)
- Exceed (See Windows-Specific Notes below)
- Exceed XDK (same version as Exceed)

Download From Website

If you downloaded Gedae from our website, you currently have a `.tar.gz` file. Unpack this file into a separate directory from which you will install Gedae either using WinZip or Cygwin.

Cygwin

```
% mkdir $TEMP/gedae # can be any directory
% cd $TEMP/gedae
% gunzip <path>/<filename>.tar.gz # unzip the file you downloaded
% tar xvf <path>/<filename>.tar # untar the file you downloaded
```

WinZip

Use WinZip or another tool to unpack the file into a temporary directory. WinZip treats the `.tar` and `.gz` extensions just like it treats `.zip`.

GEDAE System Quick Install

```
% cd c:\ # can be any directory or drive
% mkdir gedae_sys_<version> # e.g. mkdir gedae_sys_5_4
% cd gedae_sys_<version>
% %TEMP%\gedae\<build>\install %TEMP%\gedae\<host> # where <build> is nt,
# nt_mcos, or nt_dy4av2
```

GEDAE User Quick Install

Set up the environment variables. We recommend creating a batch file that you will call each time you use Gedae. Alternatively you can add these settings to the Control Panel.

```
set GEDAE=C:\gedae_sys_<version>
set GEDAEHOME=C:\gedae_user_<version>
set FGPATH=%GEDAE%\FGlibraries
set DISPLAY=<name_of_machine>:0
set LM_LICENSE_FILE=<license_file>
set include=%include%;<exceed>\xdk\include
set lib=%lib%;<exceed>\xdk\lib;%GEDAE%\nt\license
set path=<exceed>;%GEDAE%\nt\bin;%GEDAE%\nt\license;%path%
```

Install the files:

From a Command Prompt Window:

```
% cd C:\ # can be any directory or drive
% mkdir gedae_user_<version> # e.g. mkdir gedae_user_4_4
% cd gedae_user_<version>
% perl %GEDAE%\tools\initGEDAE nt
% cd nt
% perl makeGEDAE # this creates gedae.exe
```

License Manager

Provide your hostid (<http://www.gedae.com/hostid.html>) to gedae@gedae.com so we may generate a license for your machine. Place the license at `%LM_LICENSE_FILE%` then start the license manager (and add this to your machine's startup script):

From a Command Prompt Window:

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```
% %GEDAE%\nt\license\lmgrd
```

Launch Exceed

Launch Exceed by double-clicking on the icon in the Exceed folder of the Hummingbird Connectivity shortcut on your desktop.

Launch Gedae

From a Command Prompt Window:

```
% cd %GEDAEHOME%\nt
% gedae
```

GSIM-GEDAE Install

If you already have a Gedae installation, you can easily install GSIM in the same user directory. Note a separate license is required to use GSIM.

From a Command Prompt Window:

```
% cd %GEDAEHOME%\nt
% perl makeGEDAE GSIM # this creates gsim_gedae.exe
% gsim_gedae # launch GSIM
```

Notes

- The “nt” build is on Windows 2000 but will work on NT4, XP Pro, and Vista.
- XP Pro users must have administrative access to use Gedae.
- Visual Studio .NET users must call %MSVCDir%\Bin\vcvars32.bat before running Gedae.
- If you wish to use Mercury hardware on NT, you must install “nt_mcos”.
- Gedae is tested with Exceed XDK 10 and XDK 11. Versions 6.1 through 7.0 and versions 7.1 through 8.0 of Exceed require changes to the Gedae user make system:

```
% copy %GEDAE%\nt\makeGEDAE_<ExceedVersion> %GEDAEHOME%\nt\makeGEDAE
% copy %GEDAE%\nt\ent\bin\std_make_info_<ExceedVersion>
%GEDAE%\nt\ent\bin\std_make_info
% copy %GEDAEHOME%\nt\embedded\ent\runtime_make_info_<ExceedVersion>
%GEDAEHOME%\nt\embedded\ent\runtime_make_info
```

- The evaluation versions of Exceed XDK 2006 and 2007 have a fatal bug. Please contact gedae@gedae.com for a patch to this bug.
- The installation and build process uses Perl 5.0004_04 provided at %GEDAE%\nt\bin\perl.exe. If you have another version of Perl (e.g., from Cygwin or MKS Toolkit) in your path ahead of Gedae’s directory, invoke initGEDAE, initEMB, and makeGEDAE using the absolute pathname to the Perl Gedae provides, e.g., %GEDAE%\nt\bin\perl initGEDAE nt.
- The use of quotes in the environment variables set during the User Install can cause problems during the build and during runtime linking.

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Running GEDAE Demos

From a Command Prompt Window:

```
Start Exceed. This is used to display the graphics for GEDAE.  
% cd C:\gedae_user_<version>\nt  
% perl runAmSystem  
% perl runBench1  
% perl runCommDemo  
% perl runFFTTest  
% perl runMandel
```

Controlling a flow-graph

Control->Run

Control->Continue

Control->Stop

Viewing Trace Information

- 1) Utilities->Enable Trace
- 2) Control->Run (Run a flow-graph for 5 to 10 seconds)
- 3) Control->Stop
- 4) View->Trace Table

To zoom into an area, use the left and middle mouse buttons to mark the start and stop areas, then press the up arrow located near the top right of the trace table.

To zoom out press the down arrow near the top right corner of the trace table.

Navigating the flow-graph

If there is a box with a 3D border then double click on it to see the sub flow-graph.

If the box has no 3D border then double click on it to view the primitive source code.

Double clicking on a box's input/output provides information about it.

Double clicking on a double line connection pops up a dialog describing the routing pattern.

Modifying the Displays

Press the right mouse button within a display, e.g. the oscilloscope display, to pop up the parameters dialog for the display.