

Installing Executable-image GEMPACK prior to laptop course

We ask that you install GEMPACK on your laptop prior to the course. This will save time during the course, and might identify problems which your own IT support could help fix.

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1. Preparing for the installation

Download Executable-Image GEMPACK from <http://www.monash.edu.au/policy/gpeidl.htm>

That page mentions a longer install document, GPinstall.pdf, but you should follow these shorter instructions.

1.1 System Requirements

- A Laptop PC running Windows XP, Vista or Windows 7.
- At least 500 MB free hard disk space on drive C:
- 1 GB memory (RAM) or more
- The laptop must be able to "open a DOS box" [Start...Run..."cmd"]. Occasionally system administrators configure PCs to prevent this.

To install the software, you will need "Administrator" or "Power User" access rights. If your laptop belongs to, or was configured by, your organization's IT section, you may only have limited or "Standard User" access rights. In that case an Administrator password may be needed to install GEMPACK. This could mean that someone from your organization's IT section has to be present during the install.

1.2 Installation location and managing existing installations

The installer program will install GEMPACK into the folder **C:\GP**.

It is possible that your computer already has an installation of GEMPACK in **C:\GP**.

We prefer that you use the latest Executable-image GEMPACK as downloaded from the GEMPACK website. This is because parts of the course exercises may have been written to accompany this particular version of the software.

Please check whether you already have a folder C:\GP. If so then

rename the existing C:\GP folder to C:\GPOLD.

Do this now. This preserves the existing installation of GEMPACK, and any other files in this folder, for the duration of the course. When the course is finished you can return your computer to its previous state by deleting the course C:\GP directory, and then renaming C:\GPOLD to C:\GP.

2. Installing Executable-Image GEMPACK

2.1 Installation

Locate the installer program and follow the steps below.

1. From Windows Explorer or My Computer, double-click the installer EXE. It may have a name such as **gpei-11.0-install.exe**.
2. Under Vista and perhaps under XP, a warning window will appear. You may need to supply an Administrator password to continue.
3. The installer program will begin.
4. **Licence Agreement.** To agree to the copyright conditions click *I agree* then click Next.
5. **Destination location.** Please accept the suggested C:\GP directory, and click Next.
6. **Changes to your PATH and Environment.** We ask that you agree to the suggested changes to the PATH and GPDIR variables, and click Next.
7. **Selecting a GEMPACK licence file.** If you have your course CD then *Browse* and select the **.gem** file on your CD. If you do not have your course CD then you do not need to do anything; a temporary licence will be created for you. Click Next to continue.
8. **Ready to begin installation.** This window displays your installation choices. Review your choices, click Back to make corrections. When you are ready click Next to begin the installation.
9. **Finished.** The program signals that Installation is finished. Just click Finish.

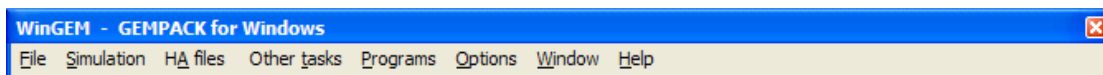
2.2 Folder permissions

Users need full access (read, write, and delete) to the GEMPACK installation folder C:\GP. If you performed the installation above in section 2.1 using the user account which will be used at the course then you have sufficient access, and you don't need to change permissions on C:\GP. If you performed the installation using an administrator level account that will **not** be used at the course, please ensure that the user account to be used at the course has full access to the C:\GP folder. One way to do this is to give the USERS group full access to C:\GP.

3. A Quick Test of the GEMPACK installation

This section leads you through a 5 minute test of your installation. We strongly recommend that you perform this test.

Start WinGEM by double clicking the WinGEM icon on your desktop. WinGEM starts as a taskbar across the top of your desktop:

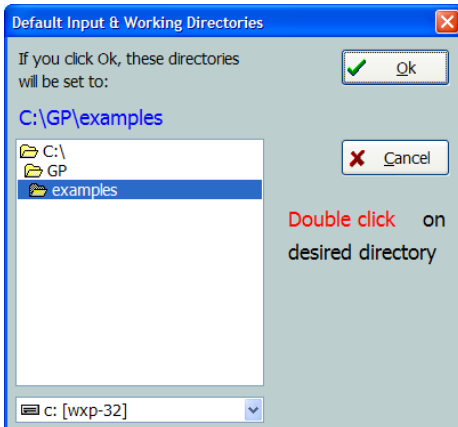


3.1 How to check your GEMPACK licence

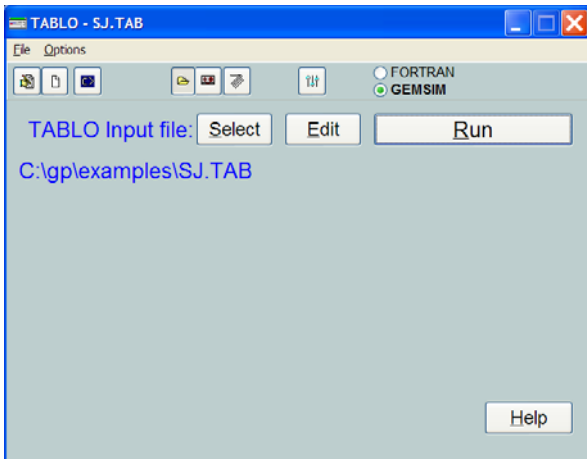
Go to the *Options*→*Check GEMPACK licence* menu item. You should see a window appear with a text box containing the details of the expiring 3-month licence created by the install program. If a window appears reporting that the file C:\GP\licen.gem could not be found then for some reason the licence file was not copied or made during the installation. Try installing again, then again try the *Check GEMPACK licence*.

3.2 How to run a quick simulation

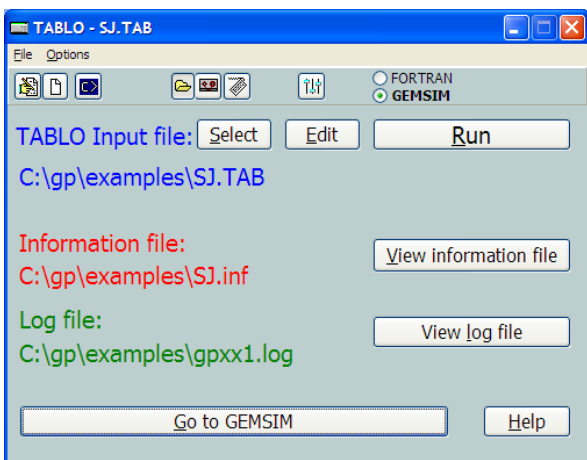
Go to the WinGEM menu *File* → *Change both default directories*, and in the window that appears, double-click to navigate through the folders until the blue directory path reads C:\GP\examples. Click OK.



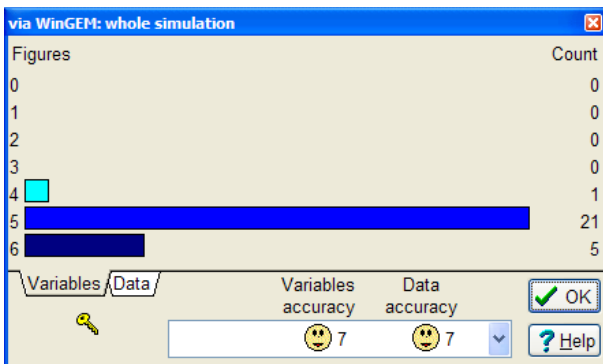
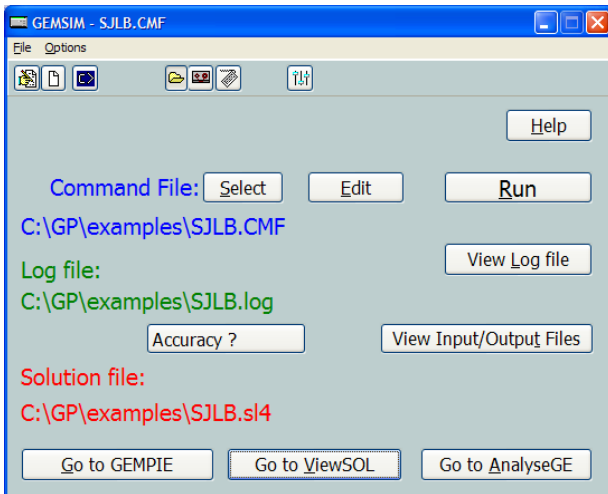
Return to the WinGEM taskbar and select the *Simulation* → *TABLO Implement* menu item. The TABLO window will appear. Check that the GEMSIM option (near top right) is selected. Now click on the *Select* button and open the SJ.TAB file from amongst those that are listed. The window should now look like this.



Now click on the *Run* button and after a few seconds some more buttons will appear in the TABLO window. Click on the *Go to GEMSIM* button, see below. (If instead an “Error running Tablo” window appears, go on to the troubleshooting section below.)



In the GEMSIM window which appears click the *Select* button and open the file SJLB.CMF. Now click on the *Run* button, and after a few seconds you will see some more buttons appear on the GEMSIM window and another new window will appear containing a bar chart and two smiley faces, see below. (If instead you see an error message appears, go on to the troubleshooting section below.)



If you got this far then your quick simulation test is successful. Well done! Take a moment to look at your desktop and discover the new program icons there.

4. If there is a problem

If you encounter a problem during the installation, please follow these steps:

- Re-read these instructions and install GEMPACK again. If there is still a problem ...
- Try the "quick fix" mentioned in the next subsection. If that doesn't help ...
- Study the full install document, [ginstall.pdf](http://www.monash.edu.au/policy/gpeidl.htm) (downloadable from <http://www.monash.edu.au/policy/gpeidl.htm>), and follow the procedure suggested there. Still no luck ...
- Send an email to support@gempack.com carefully describing your problem. If possible attach the diagnostic file which you can produce using ViewHAR . In ViewHAR, go Help....About/Diagnostics and press the Diagnostics button. A diagnostic file should be displayed, which you can save or copy to the clipboard.

4.1 A quick fix

Various problems sometimes occur if the TEMP or USER folders have very long names or contain spaces or non-english characters. The latter might occur if your username contains non-english characters, or if you are running an Asian version of Windows. The following remedy does no harm and can often fix puzzling problems.

1. Create a folder C:\TEMP (if it does not exist already).

2. Create a folder C:\GPKEEP (if it does not exist already).
3. Set the User Environment variable called TMP to be C:\TEMP .
4. Set the User Environment variable called TEMP to be C:\TEMP .
5. Create a User Environment variable called GPKEEP and set it to C:\GPKEEP .
6. Reboot.

You can set User Environment variables as follows:

1. For XP, right click on *My Computer* and select *Properties | Advanced | Environment Variables*.
For Vista, select in turn: *Control panel | Classic view | System | Advanced system settings | Environment Variables*.
2. Edit the User Environment variable TMP to be C:\TEMP. Edit the User Environment variable TEMP to be C:\TEMP. Make a New environment variable called GPKEEP with value C:\GPKEEP .

For (much) more detail, please see GEMPACK document GPD-7.

5. Notes on Course GEMPACK installation

Course participants receive the latest Limited Executable-Image Version of GEMPACK. The Limited Executable-Image Version allows the full range of modelling tasks (building new models or modifying existing models), but models are limited to those that can be implemented and solved within about 32 megabytes of memory. This is large enough for many medium-sized models (including all course exercises) but not sufficient for large models. For larger models, you would need one of the more expensive alternatives:

- Source Code version of GEMPACK and a Fortran compiler, or
- Unlimited Executable-Image Version of GEMPACK.

Some course participants may have access at work to the Source Code version of GEMPACK. In that case, they should NOT install the Limited Executable-Image GEMPACK *at work* without first consulting experienced colleagues.

The simplified installation instructions in this document are rather rigid: eg, you *must* install in C:\GP. After the course, you could install GEMPACK on your office and home PC, following the detailed instructions in document GPD-7 -- which allow more flexibility. To install GEMPACK, you may need Administrator or Power User privileges.

6. Upgrading the temporary licence

The trial edition of the Limited Executable-Image Version of GEMPACK comes with a temporary licence lasting 3 months from the download date -- long enough to complete the training course. In addition:

- Usually course participants will receive (either beforehand by email, or on arrival at the course) a course-specific licence lasting 12 months from the start of the course.
- For some courses, participants are entitled to receive their own permanent individual licence for the Limited Executable Image Version of GEMPACK. The price is included in the course fee. You would get the licence by emailing a request *after the course* to the GEMPACK Business Manager at sales@gempack.com. Your request should mention: the date and place of the course; your own full name; the name and address of your organization; and your preferred email address.