GAMS Installation and System Notes for Windows

INSTALLATION

1. Run `windows_x86_32.exe` (Windows 32bit) or `windows_x64_64.exe` (Windows 64bit): Both files are available from `http://www.gams.com/download` or on the distribution DVD (in the directory `windows`). The 32 bit version works both on a 32bit and on a 64bit operating system. Please note that the installation may require administrative privileges on your machine. You have two options to run the installer: In default or advanced mode. In the default mode the installer will prompt you for the name of the directory in which to install GAMS. We call this directory the 'GAMS directory'. You may accept the default choice or pick another directory. Please remember: if you want to install two different versions of GAMS, they must be in separate directories. If you choose to use the advanced mode, the installer will also ask you for a name of a start menu folder, if GAMS should be installed for all users, if the `GAMS directory` should be added to the `PATH` environment variable and if a desktop icon should be created.

2. Copy the GAMS license file: You will be asked for the GAMS license file (`gamslice.txt`) during the installation. If you are not sure, if you have a license file, choose 'No `license, demo only`' when asked for the GAMS license options. You can always do this later. If no valid license file is found, GAMS will still function in the demonstration mode, but will only solve small problems. All demonstration and student systems do not include a license file. If you have a license file you wish to copy to the GAMS directory at this time, answer '`Copy license file`'. You will now be given the opportunity to browse the file system and find the license file `gamslice.txt`. When you have found the correct file, choose '`open`' to perform the copy. Instead of copying a license file you could also copy the content of that file to the clipboard. If you have done this, select '`Copy license text from clipboard`'.

3. Create a project file: If this is the first installation of GAMS on your system, the installation program will create a default GAMS project in a subdirectory of your home folder. Otherwise your existing GAMS projects will be preserved.

4. Choose the default solvers: Run the GAMS IDE by double clicking `gamside.exe` from the GAMS directory. To view or edit the default solvers, choose File → Options → Solvers from the IDE. You can accept the existing defaults if you wish, but most users want to select new default solvers for each model type.

5. Run a few models to test the GAMS system: The on-line help for the IDE (`Help → GAMS IDE Help Topics → Guided Tour`) describes how to copy a model from the GAMS model library, run it and view the solution. To test your installation, run the following models from the GAMS model library:

```
LP:    trnsport (objective value:  153.675)
NLP:   chenery  (objective value:  1058.9)
MIP:   bid      (optimal solution: 15210109.512)
MINLP: procsel  (optimal solution: 1.9231)
MCP:   scarfmcp (no objective function)
MPSGE: scarfmge (no objective function)
```

COMMAND LINE INSTALLATION

Users wishing to use GAMS from the command line (aka the console mode) may want to perform the following steps after they have installed the system as described above. These steps are not necessary to run GAMS via the IDE.

1. Run the program `gamsinst`: `gamsinst` is a command line program used to configure GAMS. It prompts the user for default solvers to be used for each model type. If possible choose solvers you have licensed, since unlicensed solvers will only run in demonstration mode. The solver defaults can be changed by:

   (a) rerunning `gamsinst` and resetting the default values
   (b) setting a command line default, e.g. `gams trnsport lp=bdmlp`
   (c) by an option statement in the GAMS model, e.g: `option lp=bdmlp;`

   The system wide solver defaults are shared by the command line and the GAMS IDE, so you can also choose to set these defaults using the GAMS IDE.

In case of any problems or questions, please feel free to contact GAMS Development Corporation by sending an email to `support@gams.com` or by calling +1-202-342-0180.

2. Add the GAMS directory to your path. To avoid having to type in an absolute path name each time you run GAMS, we recommend adding the GAMS directory to your `PATH` when using the console mode (not the GAMS IDE) version of GAMS. In case more than one GAMS system is installed on the machine, separate paths have to be set before invoking each version. Under Windows XP/Vista the following procedure must be applied to add the GAMS directory to your path:

- Open the `System Properties` under the `Control Panel`.
- On the `Advanced` tab click on the `Environment Variables` button and select the existing variable `Path`. Click `Edit`.
- In the `Value Box` add the GAMS directory to the path as the following example illustrates:
  `c:\your\current\path\setting;C:\gams` and click `OK`.

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