

Appendix B. Practicalities

System Requirements

You will need to have the following:

- A computer.
- A GTAP 9 license and data file.
- A GAMS system, Version 24.7.1 or newer.
- A nonlinear solver (PATH, IPOPT or CONOPT).
- The MPSGE subsystem (optional)

Getting Started

The GTAPINGAMS package is distributed as a zip file containing the directory structure and GAMS programs which can be unzipped into a clean working directory. GTAP source data are not distributed with the GTAPINGAMS system. In order to generate models with the GTAPINGAMS tools, it is necessary to obtain the GTAP 9 distribution archives.

Here are the steps involved in installing GTAPINGAMS:

- 1) Create an empty root directory for GTAP.
- 2) Unzip `gtap9ingams.zip` in this directory.
- 3) Install the GTAP data file `flexagg9aY11.zip` into the `gtapdata` subdirectory.²⁰
- 4) Connect to the `build` directory and execute `gams build.gms`. This will take some time to complete. The batch file is set up to begin with the 2011 base year data. Choose a different year if you wish.
- 5) Run `test.gms` in the `build` directory to evaluate benchmark consistency of the generated datasets.
- 6) The GAMS programs in the `forensics` directory provide a template for how to conduct counterfactual policy simulations, using Excel PivotTables and PivotCharts to synthesize model output.

²⁰ You need only one data files, but these data are provided for three different years in the GTAP “flexhar” distribution.