

Practical Session I: Running a Small CGE Model in GAMS

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Presentation for Second Training Workshop of the
Project “Assessing Development Strategies to Achieve
the MDGs in Asia”, Manila, March 24-27, 2009

Outline

- GAMS and Simple CGE example installation
- The model files
 - data file
 - simulations file
- Running the model using GAMSIDE

Installing GAMS and Simple CGE

1. Create a directory (e.g., manila-wrk), into which you copy three files
 - windows_x86_32.exe -- the GAMS program file
 - gamslice.txt -- the GAMS license file
 - simple-cge-2009-03-20.zip – the model files
2. Install GAMS by running the file windows_x86_32.exe
 - accept all defaults; when asked to, copy the license file (gamslice.txt) into the directory where GAMS is being installed
3. Create a directory called simple-cge.
4. Unzip the content of simple-cge-2009-03-20.zip into the directory simple-cge.

Running the Simple CGE

- Open GAMSIDER
- Open the GAMS project cge.gpr in the simple-cge folder
- Open the file mod.gms
 - run mod.gms with option s=save\mod
- Open the file sim.gms
 - run sim.gms with option r=save\mod
s=save\sim

Creating a New Dataset for Simple CGE

- copy (do not rename!)
 - Excel files
 - cge-data.xls to <app>-data.xls
 - cge-sim.xls to <app>-sim.xls
 - GAMS include files
 - cge-data.inc to <app>-data.inc
 - cge-sim.inc to <app>-sim.inc
- Open the <app> files with the .inc extension and do a search and replace, replacing cge- by <app>-

Creating a New Dataset for Simple CGE – cont.

- In mod.gms,
 - look for the first \$INCLUDE statement
 - add new \$INCLUDE statement -- \$INCLUDE <app>-data.inc
 - unselect \$INCLUDE cge-data.inc, and select \$INCLUDE <app>-data.inc
- In sim.gms,
 - look for the first \$INCLUDE statement
 - add new \$INCLUDE statement -- \$INCLUDE <app>-sim.inc
 - unselect \$INCLUDE cge-sim.inc, and select \$INCLUDE <app>-sim.inc