



Save and Restart Facility




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Outline


- What is the Save & Restart facility?
 - Saving a work file
 - Reusing a work file
- Why use Save & Restart?
 - Efficiency
- Using Save & Restart
 - Command line instruction



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What is the Save & Restart facility?

- **Save** the work file
- **Restart** from the work file


“The work file preserves all information (including declarations, values, option settings and dollar command line parameters) known to GAMS at the end of the run.”

A facility that can improve efficiency




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Why Use Save & Restart

- Incremental programme development
 - develop models and experiments in sequential parts
- Separation of core model and experiment
 - Step 1: generate the model
 - Step 2: run experiments
- Separation of data and model
 - Code and compile relationships then restart to add data
- Secure work files
 - modelers can distribute models in a way that protects IP
- Tracking difficult solves
 - solve a model sequentially to identify problems
- What-if analyses
 - use the same model in multiple scenario analyses.



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Using Save and Restart

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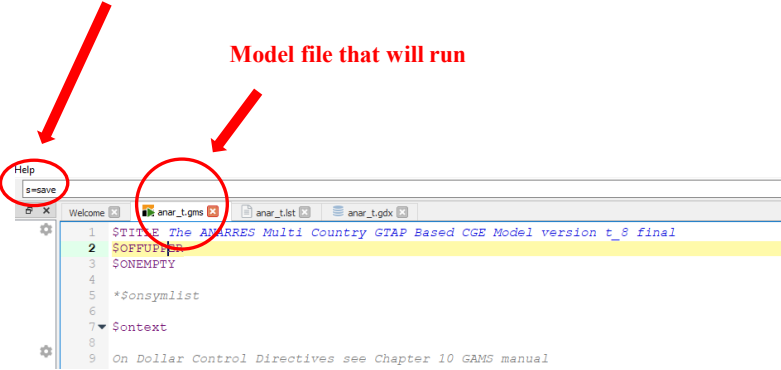
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Saving the Work file

Instruction in the command line


Model file that will run



→ save.g00

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Restart from the Work file

Experiment file that will run

Instruction in the command line



The screenshot shows the GAMS Studio interface. In the top menu bar, the 'r=save' command is circled in red. A red arrow points from the text 'Instruction in the command line' to this circle. In the Project Explorer on the left, the file 'anar_expt.gms' is selected and circled in red. A red arrow points from the text 'Experiment file that will run' to this circle. The main editor window shows the contents of 'anar_expt.gms', which includes a comment block starting with '***** 17. POLICY EXPERIMENTS *****' and a 'Sontext' section describing the restart facility.

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ANARRES

Save and Restart Facility

The End



The slide features the title 'Save and Restart Facility' in a large, red, serif font. Below it, the text 'The End' is displayed in a blue, serif font. The slide is framed by a black border. In the top left corner, there is a red 3D-style button with the text 'cgemod'. In the top right corner, there is a red 3D-style button with the text 'ANARRES'. In the bottom right corner, there is a small speaker icon with the number '8' next to it.

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