



➤ OPTIMIZATION

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GAMS

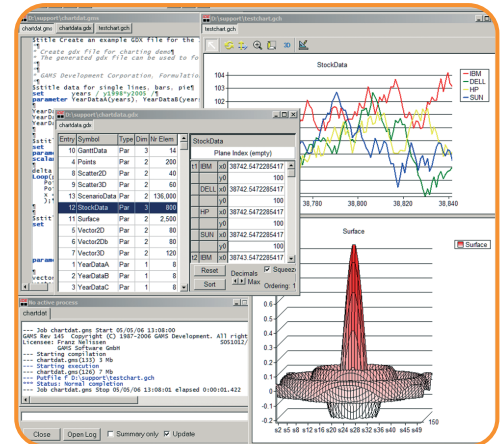
High-Level Modeling

The General Algebraic Modeling System (GAMS) is a high-level modeling system for mathematical programming problems. GAMS is tailored for complex, large-scale modeling applications, and allows you to build large maintainable models that can be adapted quickly to new situations. Models are fully portable from one computer platform to another.

Wide Range of Model Types

GAMS allows the formulation of models in **many different problem classes**, including

- Linear (LP) and Mixed Integer Linear (MIP)
- Quadratic Programming (QCP) and Mixed Integer QCP (MIQCP)
- Nonlinear (NLP) and Mixed Integer NLP (MINLP)
- Constrained Nonlinear Systems (CNS)
- Mixed Complementary (MCP)
- Programs with Equilibrium Constraints (MPEC)
- Conic Programming Problems
- Stochastic Linear Problems



GAMS Integrated Developer Environment for editing, debugging, solving models, and viewing data.

State-of-the-Art Solvers

GAMS incorporates all major commercial and academic state-of-the-art solution technologies for a broad range of problem types, including global nonlinear optimization solvers.

BALMOREL - A Model for Analyzing the Energy Sector in an International Perspective



- A large partial equilibrium model
- Supports modeling and analysis of the energy sector with emphasis on the electricity, combined heat and power sectors
- Covers international and regional electricity trade with transmission constraints, costs and losses
- Handles policy measures like taxes, quotas, CO2 emission markets, targets for energy efficiency improvement and renewables.
- Applied in projects in Denmark, Norway, Estonia, Latvia, Lithuania, Poland, Germany, Austria, Ghana, Mauritius and Canada
- More information and the full model source is available at:
<http://www.balmorel.com>

Danish grid, recommended reinforcements

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