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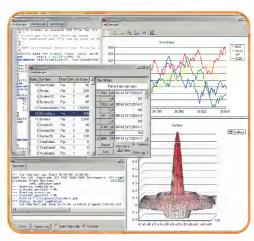
High-Level Modeling

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.

GAMS/SCENRED-2

PriceGAMS - TreeGAMS

GAMS/SCENRED-2 is a major update of GAMS/SCENRED, the well-known software tool for scenario reduction in stochastic programming models:

- full scenario reduction functionality for two-stage models
- various construction methods for generating scenario trees for multi-stage models
- visualization of scenario trees and scenario processes



SCENRED-2 software was developed at the Department of Mathematics at Humboldt-University Berlin, Germany, by Holger Heitsch

