# OPTIMIZATION

www.gams.com

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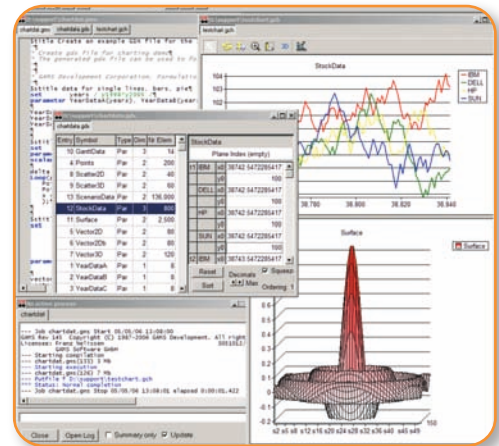
GAMS Integrated Developer Environment for editing, debugging, solving models, and viewing data.

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.

GAMS available on the Amazon Elastic Compute Cloud

GAMS is now available through Amazon Elastic Compute Cloud (Amazon EC2). Amazon EC2 is a web service that provides resizable compute capacity in the cloud:

- Immediate access with no IT investment or management.
- Pay-as-you-go compute utility: No reservation, no long term contracts
- Full access to Windows (rdp) or Unix (ssh)
- 64 bit environment, 15 GB of RAM and 4 cores

For more information visit **http://www.gams.com/aws** or contact **aws@gams.com**.

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