Optimization
www.gams.com

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.

A 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

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.

Application Development
We understand the complexity of developing decision support applications. GAMS simplifies the process by integrating tools which take care of

• Licensing
• Confidentiality
• Deployment

Optimization models developed with GAMS can be easily integrated into other applications having GUI front ends, interconnect with databases and utilize graphical data analysis routines. Furthermore, GAMS has been used successfully in web-based implementations for distributed applications.

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