GAMS

Modeling for the Real World

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High-Level Modeling

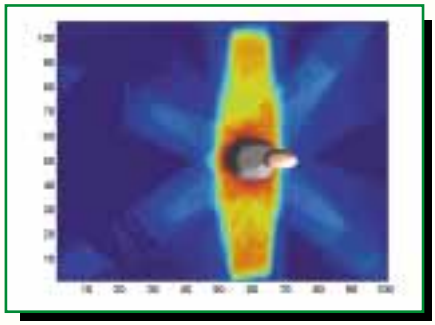
The General Algebraic Modeling System (GAMS) is a **high-level modeling system** for mathematical programming problems. GAMS is tailored for complex, large-scale modeling applications, and allows you to build large maintainable models that can be adapted quickly to new situations. Models are **fully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

Multiple Model Types

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

- linear (LP) and mixed integer linear (MIP)
- nonlinear (NLP) and mixed integer nonlinear (MINLP)
- mixed complementary (MCP)
- programs with equilibrium constraints (MPEC)
- stochastic linear problems
- constrained nonlinear systems (CNS)
- conic programming problems

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



Conformal Radiation Therapy of the Prostate: Optimized using GAMS and interfaced with MATLAB.

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 a range of **global solvers** for nonlinear (as well as MINLP) models.

Real World Modeling

The GAMS model library consists of **over 250 models** from many different application areas to help the user in solving real world applications. Our sample models include applications in

- Economics and Econometrics
- Engineering and Medicine
- Finance and Management Science
- Operations Research

Many production-scale application models can be developed by **simply extending library models**.

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