The Solver Manuals - Table of Contents

Solver Manuals

Basic Solver Usage Using Solver Specific Options

AlphaECP MINLP solver based on the extended cutting plane (ECP) method

BARON Branch-And-Reduce Optimization Navigator for proven global solutions from The

Optimization Firm

BDMLP LP solver that comes with any GAMS system

A utility to facilitate benchmarking of GAMS solvers and solution verification.

Link to the solvers in the COIN-OR project (Computational Infrastructure -

Operations Research)

CONOPT Large scale NLP solver from ARKI Consulting and Development

CONVERT Framework for translating models into scalar models of other languages

CPLEX High-performance LP/MIP solver from Ilog

DECIS Large scale stochastic programming solver from Stanford University
DICOPT Framework for solving MINLP models. From Carnegie Mellon University

EMP Framework for Extended Mathematical Programming

EXAMINER A tool for examining solution points and assessing their merit

GAMS/AMPL A link to solve GAMS models using solvers within the AMPL modeling system

GAMSCHK A System for Examining the Structure and Solution Properties of Linear

Programming Problems Solved using GAMS

GAMS/LINGO A link to solve GAMS models using solvers within the LINGO modeling system

GUROBI High-performance LP/MIP solver from Gurobi Optimization

<u>KNITRO</u> Large scale NLP solver from Ziena Optimization, Inc.<u>LGO</u> Lipschitz global optimizer from Pinter Consulting Services

LINDOGlobal MINLP solver for proven global solutions from Lindo Systems, Inc.

LOGMIP Logical Mixed Integer Programming is a solver for generalized disjunctive programs

(GDP)

MILES MCP solver from University of Colorado at Boulder that comes with any GAMS

system

MINOS NLP solver from Stanford University

MOSEK Large scale LP/MIP plus conic and convex non-linear programming system from

MOSEK ApS

MPSGE Modeling Environment for CGE models from University of Colorado at Boulder

MSNLP Multi-start method for global optimization from Optimal Methods Inc.

NLPEC MPEC to NLP translator that uses other GAMS NLP solvers

OONLP Multi-start method for global optimization from Optimal Methods Inc.

OSL High performance LP/MIP solver from IBM

OSLSE OSL Stochastic Extension for solving stochastic models

PATH
Large scale MCP solver from University of Wisconsin at Madison
Large scale NLP solver from University of Wisconsin at Madison

BBB
Branch-and-Bound algorithm from ARKI for solving MINLP models

SCENRED
A tool for the reduction of scenarios modeling the random data processes

MIP solver from Konrad-Zuse-Zentrum für Informationstechnik Berlin

SNOPT Large scale SQP based NLP solver from Stanford University

Large scale LP/MIP system from Sunset Software

XPRESS High performance LP/MIP solver from Dash

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