Frontline Solvers Built-in Solver Engines

(More details available on www.solver.com)

Built-in Solver Engines	Problem Types Most Suited For	Analytic Solver Basic	Analytic Solver Upgrade	Analytic Solver Simulation	Analytic Solver Optimization	Analytic Solver Data Mining	Analytic Solver Comprehensive	Solver SDK Pro	Solver SDK Platform
LP/QP Solver	LP/QP/MIP	200 x 100	2,000 x 1,000	200 x 100	8,000 x 8,000	200 x 100	8,000 x 8,000	2,000 x 8,000	8,000 x 8,000
GRG Solver	Smooth Nonlinear	200 x 100	500 x 250	200 x 100	1,000 x 1,000	200 x 100	1,000 x 1,000	500 x 250	1,000 x 1,000
Evolutionary	Non-smooth / Nonlinear	200 x 100	500 x 250	200 x 100	1,000 x 1,000	200 x 100	1,000 x 1,000	500 x 250	1,000 x 1,000
Interval Global	Smooth Nonlinear (exhaustive)	200 x 100	200 x 100	200 x 100	500 x 250	200 x 100	500 x 250		
SOCP	2nd Order Cone	200 x 100	200 x 8,000	200 x 100	2,000 x 8,000	200 x 100	2,000 x 8,000		2,000 x 8,000

Additional Capabilities									
Includes Advanced Monte Carlo Simulation Engine	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Can be combined with Analytic Solver Optimization	Yes		Yes		Yes				
Can automatically choose the best Solver engine for a model	Yes	Yes	Yes	Yes	Yes	Yes			
Accepts optional plug-in Solver engines for larger models.				Yes		Yes		Yes	

Note on Additional Plug-in Solver Engines

Analytic Solver Optimization, Analytic Solver Comprehensive, and Solver SDK Platform can accept a range of optional plug-in Solver engines in addition to the built-in engines above. These will give you the ability to solve virtually unlimited size problems, at the fast speeds possible, using engines from the most recognized optimization companies in the world such as Gurobi, Xpress, KNITRO, and more. You can learn more our plug-in Solver Engines page.