

Frontline Solver Upgrades to the Basic Solver Included with Excel

(Visit www.Solver.com to download a free trial, learn about our SDK tools, and see more detailed comparison charts)

	Basic Excel Solver	Premium Solver Pro	Premium Solver Platform	Risk Solver Platform
Product Scope:	<ul style="list-style-type: none"> Conventional Optimization 	<ul style="list-style-type: none"> Conventional Optimization 	<ul style="list-style-type: none"> Conventional Optimization 	<ul style="list-style-type: none"> Conventional Optimization Monte Carlo Simulation Simulation Optimization Stochastic Optimization
Platform:	Windows and Mac	Windows	Windows and Mac	Windows
Solve more types of problems:				
Solves LP, MIP, NLP, and NSP problem types	Yes	Yes	Yes	Yes
Additional solvers for QP, QCP, SOCP problem types			Yes	Yes
Solves simulation and simulation optimization problems				Yes
Supports recourse decisions under uncertainty				Yes
Solve larger problems:				
# of Linear decision variables	200	2000 (10x)	8000 (40x)	8000 (40x)
# of Nonlinear decision variables	200	500 (2.5x)	1000 (5x)	1000 (5x)
# of Non-smooth decision variables	200	500 (2.5x)	1000 (5x)	1000 (5x)
# of decisions variables with optional plug-in Solver engines			Millions	Millions
Get solutions in less time: *				
Linear problems	1x (LP)	3x (LP)	40x (LP/QP)	40x (LP/QP)
Mixed Integer problems	1x (LP)	10x (LP)	20x – 40x (LP/QP)	20x – 40x (LP/QP)
Non Linear problems	1x (GRG)	1x (GRG)	7x – 15x (LSGRG)	7x – 15x (LSGRG)
Non-smooth problems	1x	1x-10x	2x – 20x	2x – 20x
Solution speed with optional plug-in solver engines			10x – 1000x	10x – 1000x
Model transformation for better answers more quickly			Yes	Yes
Handle a wider variety of constraints:				
Normal, integer, binary, and alldifferent	Yes	Yes	Yes	Yes
Semi-continuous		Yes	Yes	Yes
2 nd order cone			Yes	Yes
Probabilistic and Chance				Yes
Get help and guidance along the way:				
Context sensitive help and included example models		Yes	Yes	Yes
Comprehensive charting, reporting, and sensitivity/scenario analysis		Yes	Yes	Yes
Guided Mode assistance built-in		Yes	Yes	Yes
Automatic Mode for model type analysis and selection of best engine		Yes	Yes	Yes

* Solution speed is highly dependent on model size and structure. Speedups shown are representative of relative improvement over the Excel Solver and actual results could be even faster, or slower, than shown here.