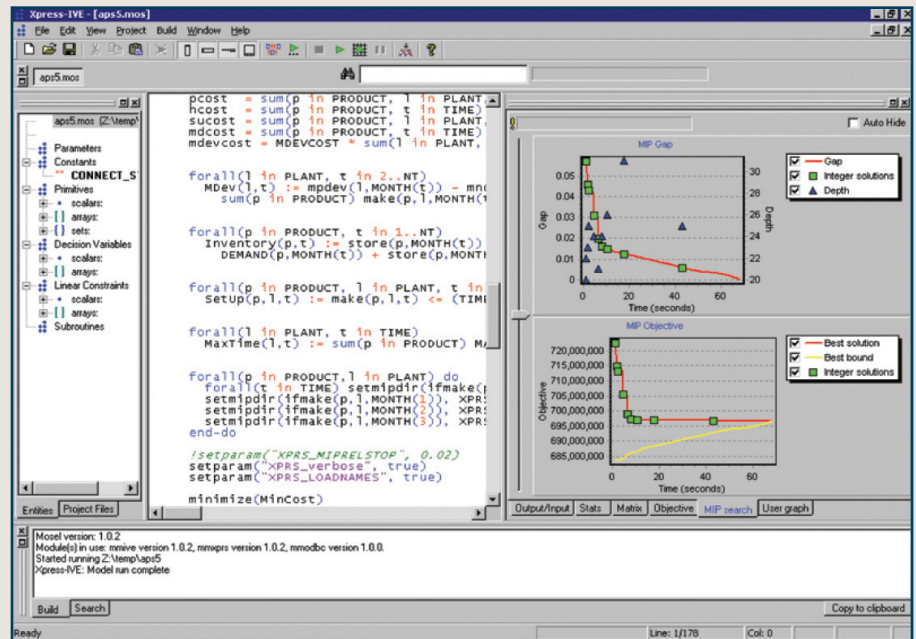


decision management tools

The FICO™ Xpress Optimization Suite is the premier mathematical modeling and optimization software in the world, with the best tools available to aid the development and deployment of optimization applications.

The Xpress Optimization Suite solves large-scale optimization problems, enabling better business decisions and resulting financial benefits in areas such as supply chain management, operations, logistics and asset management. It has been applied in sectors as diverse as manufacturing, processing, distribution, retailing, transport, finance and investment.



Xpress-IVE development environment

FICO Xpress Optimization Suite is a set of mathematical modeling and optimization tools used to solve linear, integer, quadratic, non-linear, and stochastic programming problems. The Xpress Optimization Suite is split into model building and development tools and solver engines.

## » Model building and development tools

**Xpress-Mosel** is both an algebraic modeling and a procedural programming language specifically designed to be an easy-to-learn, robust way to interact with the solver engines. Xpress-Mosel allows users to formulate a problem, solve it using one or several of the Xpress solver engines, and analyze the solution, using a fully functional compiled programming language specifically designed for this purpose.

**Xpress-BCL** is an object-oriented library for building, solving and analyzing problems from C/C++/C#, .NET, VB or Java.

**Xpress-IVE** is a complete visual development environment for Xpress-Mosel under Windows. It incorporates a Mosel program editor, compiler, debugger, profiler and execution environment.

## Xpress-Application Developer (XAD)

extends Xpress-Mosel with an API for graphical user interface development, turning Mosel into a modeling and programming language for complete optimization application development all the way from the mathematical representation of the problem to developing the user interface.

## » Solver engines

**Xpress-Optimizer** features optimization algorithms that enable customers to solve linear programming problems (LP), mixed integer programming problems (MIP), quadratic programming problems (QP) and mixed integer quadratic programming problems (MIQP).

**Xpress-SLP** is a solver for non-linear programming problems (NLP) and mixed integer non-linear programming problems (MINLP). It uses successive linear approximation, which has been developed from techniques used in the process industries and it is capable of solving large problems with many thousands of variables.

**Xpress-SP** is a stochastic programming tool for solving optimization problems involving uncertainty. Xpress-SP can be used to model and solve problems occurring in supply chain management, energy, finance, transportation, etc., by building uncertainty into the optimization problem in order to hedge against future variability.

**Xpress-Kalis** is Constraint Programming software based upon the Kalis solver by Artelys. It specializes in discrete combinatorial problems as they frequently occur, for instance, in scheduling and planning problems.

## » The competitive advantage of Xpress

FICO is committed to investing heavily in the Xpress Suite to maintain it as the leading optimization technology, and to providing friendly, high-quality support. With FICO Xpress Optimization Suite, you can expect:

- A state-of-the-art optimization engine that is robust and reliable
- The premier visual development environment, Xpress-IVE, for developing mathematical models
- An easy-to-learn, powerful modeling and programming language, Xpress-Mosel
- A partner who is committed to solving all of your most difficult optimization problems

## » FICO and the Xpress Suite

The Xpress Optimization Suite is embedded in FICO™ Decision Optimizer, the software component of FICO™ Custom Decision Optimization. Custom Decision Optimization uses Decision Optimizer software along with a precise, data-guided methodology to solve custom decision problems for our financial services clients in such areas as credit line management, pricing and market offer optimization. These complex decisioning strategies can incorporate any number of predictive models while balancing multiple business objectives (including competing objectives from various departments) and resource constraints, even accounting for ranges of uncertainty.

FICO works in close partnership with its customers and partners, enabling them to get the best possible performance from the Xpress Optimization Suite. The suite is embedded in many software products and solutions as a component, making leading edge optimization accessible to a wide range of customers and applications. Through expertise in the product and its application, excellent customer support and fast track product development, FICO continues to maintain the Xpress Optimization Suite at the cutting edge.

## » About FICO

FICO combines trusted advice, worldclass analytics and innovative applications to help businesses make smarter decisions. Our solutions and technologies for Decision Management give organizations the power to automate more decisions, improve the quality of their decisions and connect decisions across their business.

Clients in 80 countries work with FICO to increase customer loyalty and profitability, cut fraud losses, manage credit risk, meet regulatory and competitive demands and rapidly build market share. For more than 50 years, we have helped thousands of clients control risk and accelerate business growth through analytics and decision technology. Our innovative applications integrate analytics, optimization, business rules management and other technologies to help businesses make smarter decisions.

**For more information, and to request an evaluation copy of the FICO Xpress Optimization Suite, go to [www.fico.com](http://www.fico.com).**



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