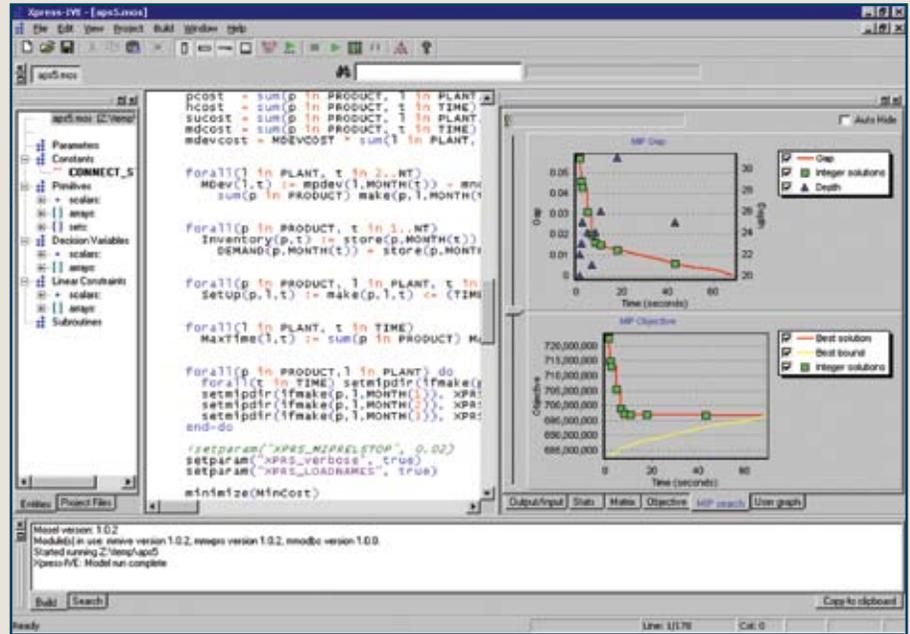


decision management tools

## Sophisticated yet easy-to-use tools for building, solving, testing and deploying optimization models

Xpress-IVE is a visual development environment for writing, compiling and managing mathematical models. Xpress-Mosel is the modeling language that supports a rich set of statements and procedures to build mathematical models and then solve them with optimizers and other solution techniques. These can include userwritten procedures. For customers who wish to build or manipulate mathematical models directly within their own computer programs, FICO provides the Builder Component Library: Xpress-BCL.



Xpress-IVE for mathematical development

### » Xpress-IVE

Xpress-IVE is a complete visual development environment for Xpress-Mosel under Windows. Xpress-IVE incorporates a Mosel mathematical model editor, compiler and execution environment, together with visualization technology.

The user can browse the objects within their model program through an entity tree, which allows the solution values of all optimization objects to be viewed when available.

The performance of the Optimizer can be analyzed through runtime visualization. Further visualization allows you to view and browse the problem instance matrix, and create custom graphs to view the solution.

Xpress-IVE is ideal for developing Mosel models for applications, for analyzing and tuning the Optimizer on particular problem instances, and for developing and running one-off optimization problem applications in a stand alone visual environment. For applications, the model file can developed, tested and tuned in Xpress-IVE, before being exported and embedded in the application itself.

### » Xpress-Mosel

Xpress-Mosel provides a high level modeling and programming language, which allows the user to formulate their problem, solve it using the Xpress-Optimizer, and analyze the solution.

Mosel models are compiled, which makes them fast and protects intellectual property and integrity. They can be run interactively or embedded within software applications.

The Mosel language is easy to learn and use, making it easy to develop, test and thereafter maintain optimization applications. A visual development environment, Xpress-IVE, makes the process even easier. Mosel has advanced features to handle the largest and most sophisticated optimization problems.

### » Xpress-BCL

Xpress-BCL is an object-oriented library for building problems within an application. It uses a step-by-step approach, with functions to add a variable, and add a constraint, which the developer calls within their C/C++, Java or VB program, gradually building up the complete problem. Once the complete problem is defined, it is solved using the Xpress-Optimizer. Further BCL functions enable the developer to access the solution directly within their application.

Both Mosel and BCL are extremely useful for consultants and OEMs who want to solve particular classes of optimization problems efficiently. The standard Xpress-Optimizer may be customized to take advantage of the structure or some other characteristic of the problem to reduce solution times.

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*Xpress-Mosel is much more intuitive than other linear programming languages*

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