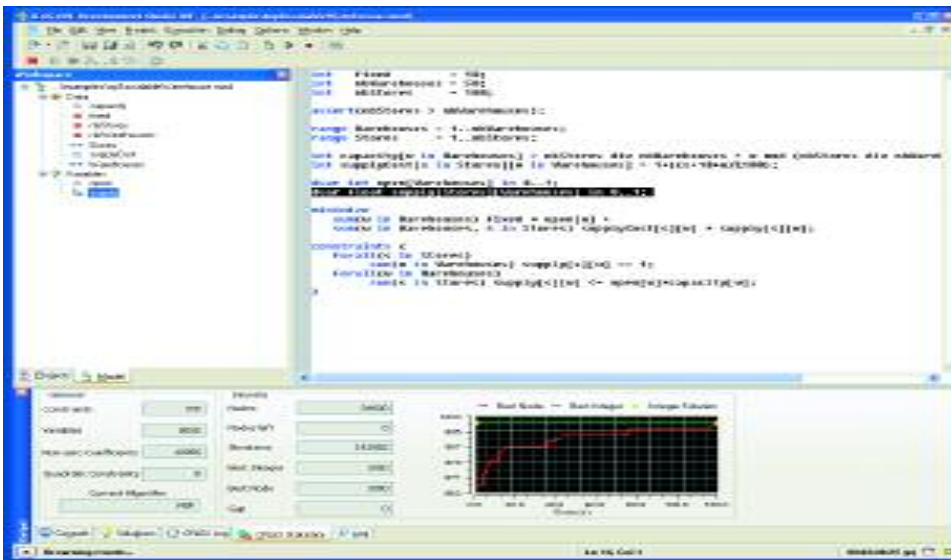


ILOG OPL Development Studio

For rapid development of optimization models



Harness the power of optimization

Companies know: For greater efficiency, productivity and revenues, optimization can be a powerful approach. But many do not know how easy it can be to develop the models that drive the applications. ILOG offers the fastest way to build optimization models for the full range of planning and scheduling problems: ILOG OPL Development Studio. Now, you can overcome the barriers between you and optimized decision making.

Natural development

ILOG OPL Development Studio is specifically designed to work with ILOG CPLEX, the world's leading optimization engine. The Optimization Programming Language (OPL) provides a natural representation for optimization models, requiring far less effort than general-purpose programming languages. OPL models connect directly to leading database systems to deliver complete solutions in the shortest amount of time.

Full support from start to finish

With ILOG OPL Development Studio, developers can easily evaluate different approaches to a solution to determine the best models and algorithms for their applications. Once an OPL model has been fully tested, ILOG OPL Development Studio enables the developer to embed it directly into a planning or scheduling application. The finished application can be easily linked to a production data source to import business information or store optimized solutions. Let ILOG OPL Development Studio be your fast track to success with optimization.

- Tap market-leading ILOG CPLEX
- Develop and test optimization models
- Integrate models directly
- Connect to external data sources



Develop and test with a complete modeling system

The Optimization Programming Language (OPL) represents optimization problems descriptively, producing substantially simpler and shorter code than general-purpose programming languages. With OPL, the user can focus on analysis and avoid many of the low-level programming tasks, including reading data, memory management and output formatting. Its powerful syntax supports all the expressions needed to model and solve the full range of business optimization problems. Additionally, ILOG Script provides the full-featured JavaScript language for data preprocessing, solution postprocessing and algorithm flow control. ILOG Script can be used to solve complex problems by using the recommendations from initial optimization models as input data for other models. With its integrated development environment (IDE), ILOG OPL Development Studio also provides interactive control for the generation processes of the primary optimization solution. Rich interactive graphics enable users to debug or fine-tune optimization models on screen.

Take advantage of ILOG's leading optimization engine

ILOG OPL Development Studio is built as an extension of the object-oriented interface to ILOG CPLEX, providing a tight, efficient link between the model and the engine. As a result, OPL models take maximum advantage of the ILOG CPLEX optimization engine and deliver top computational performance in solving mathematical programming (MP) problems. OPL's syntax supports linear and quadratic constraints and objectives, along with any combination of real, binary and integer decision variables. ILOG CPLEX provides fast and highly robust optimization algorithms that rapidly find solutions. Its success in solving problems has led more than a thousand major companies and software providers in manufacturing, transportation and logistics, defense, financial services, utilities and energy, and other industries to depend on ILOG CPLEX in a wide range of mission-critical optimization applications.

Connect to external data sources

ILOG OPL Development Studio can directly access data sources or storage devices to import external data or store optimized solutions. For small data sources, it can directly access Microsoft Excel spreadsheets via cell ranges. For larger data sources, it can access major relational databases through SQL commands in an OPL data source. By cleanly separating the model from the data values, it is easy to switch between data sources and migrate from test data to a production database.

Embed models into applications directly

The OPL Interfaces enable the developer to embed an OPL model into an application without rewriting the model's code. The structure of the OPL Interfaces separates the tasks for software development and optimization modeling, allowing these jobs to be distributed among users. The OPL Interfaces also fit a variety of development environments: Java, Microsoft .NET and C++. The .NET application programming interface (API), for example, enables easy integration with Microsoft Visual Basic.NET and Microsoft Office applications.

At the heart of an integrated system

ILOG OPL Development Studio is an essential part of ILOG's Optimization Decision Management System (ODMS), which supports all aspects of optimization model-based application development. ILOG's complete system also includes ILOG Optimization Decision Manager for fast development of decision support applications that feature extensive support for what-if analysis, goal programming and scenario comparison by business users, and market-leading ILOG CPLEX for mathematical programming model execution. ILOG ODMS makes optimization more widely accessible than ever before.

ABOUT ILOG

ILOG delivers software and services that empower customers to make better decisions faster and manage change and complexity. Over 2,000 global corporations and more than 400 leading software vendors rely on ILOG's market-leading business rule management system (BRMS), optimization and visualization software components, to achieve dramatic returns on investment, create market-defining products and services, and sharpen their competitive edge. The BRMS market share leader, ILOG was founded in 1987 and employs more than 600 people worldwide.

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