benchmark CONSULTING

IRIS™ Analyzer
Protect, Improve and Extend Your COBOL Investment

IRIS™:
Today's most comprehensive COBOL analysis & transformation technology.

IRIS™ Analyzer

Today's Business Challenges Require Access to Critical Information

You have likely invested millions of dollars over the years into your COBOL applications. Yet still, you may face the challenges of a declining COBOL workforce and documentation that is out-of-date or missing. COBOL systems are often some of your most valuable business assets. They are generally very large and complex applications that have undergone decades of change. Effectively leveraging the logic and data within these critical applications can be the enabler to business success.

Solving the Black Box Conundrum

Leveraging COBOL systems as a business asset can be an undertaking of significant magnitude. It is no longer appropriate to use last century's tools or manual methods for assessment, analysis, maintenance and evolution of your COBOL systems. You have to empower your workforce, who is accustomed to modern tools and technologies, with advanced analysis tools that will allow them to efficiently mine and understand the system in a fraction of the time that it does right now. In addition, analysis tools that cannot leverage analysis information to automate transformation are also becoming archaic.

Analysis – The Starting Point

IRIS Analyzer is a 21st century solution that accelerates the mining of application knowledge and the determining of change requirements. Based on the world's most pervasive integrated development environment (IDE), IRIS Analyzer improves the speed and accuracy of knowledge gathering for – **system analysis, defect remediation, restructuring business logic, identifying and remediating compliance issues, and re-architecting applications**. IRIS Analyzer is today's most comprehensive COBOL analysis technology.

Transformation – The Path to Business Enablement

Today's application analysis tools fall short in their ability to transform applications. IRIS Transform is a model-driven application transformation engine that applies information gathered by IRIS Analyzer to orchestrate code change. As a service-enablement tool, IRIS Transform is used by our professional services team to help you transform an application based on your requirements. IRIS Transform facilitates software removal, business logic extraction, code conversion and many other transformation needs.

With IRIS Analyzer and IRIS Transform Services, COBOL transformation becomes a business enabling reality.

"We acquired IRIS and Benchmark Consulting's professional services to help us with a critical application transformation project. Based on our initial scope, we recognized 66% costs savings, 83% resource savings, 49% reduction in application remediation, and no deterioration in code quality."

CIO,
Global Financial Services Company
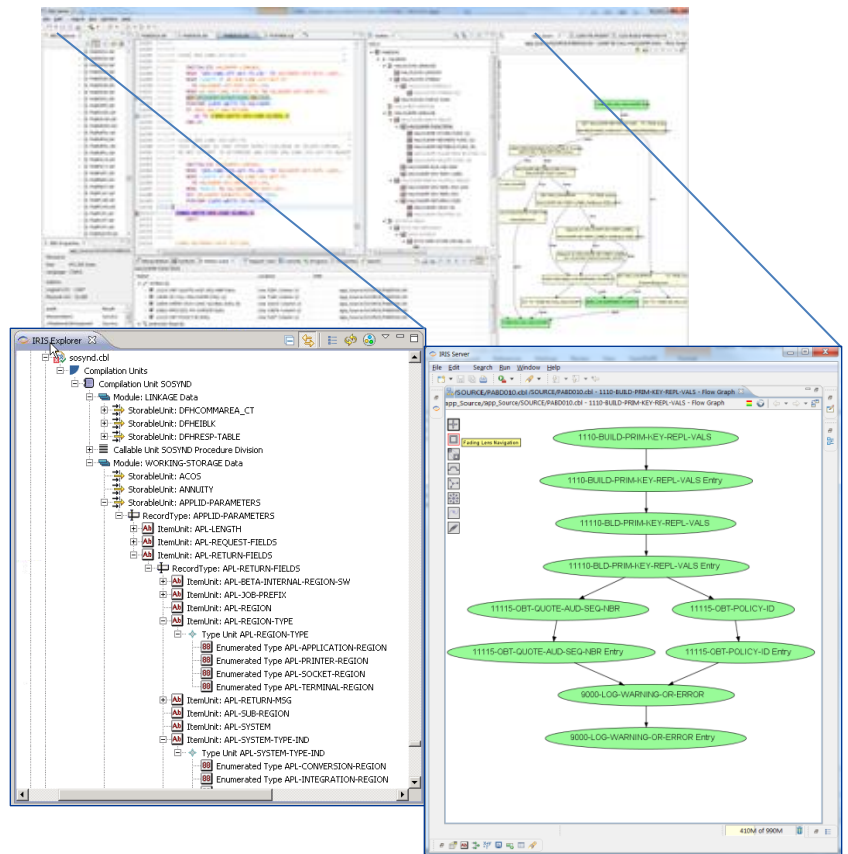
IRIS™ Analyzer

Our Product

IRIS Analyzer is available as a client/cloud and client/server based solution. The IRIS Client is deployed as a Rich Client Platform within Eclipse, the world's most pervasive IDE, and is the user's interface for analysis and modeling. IRIS Cloud is the engine that performs the analysis and stores the information within its knowledge repository in a convenient, cost-effective hosted model. As an alternative to IRIS Cloud, IRIS Server[1] is available for purchase, allowing you all of the facilities of IRIS, hosted on your own systems.

Protect, Improve and Extend COBOL Applications with IRIS Analyzer

IRIS Analyzer facilitates the development of interactive analysis artifacts, graphs and documentation. These artifacts can be leveraged for application understanding, change management, integration, mergers and more. IRIS Analyzer artifacts cover:

- Impact Analysis
    - **Code changes**
    - **Business logic restructuring**
    - **Data changes**
    - **Software removal**
- Graphical Documentation
    - **Data and Control Flows**
    - **Business logic**
- Interface Determination
- Data Model Extraction
- Data Lineage
- Application Architecture Discovery
- Code Metrics Analysis
    - **Architectural Issues**
    - **Functionality Duplication**
    - **Logic Complexity**
    - **Code Weaknesses and Defects**

IRIS Analyzer generates automated flow and dependency graphs, providing interactive traceability across the entire application

Importantly, IRIS Analyzer supports the full COBOL environment. Its analysis capability spans across:

COBOL:
- IBM Enterprise COBOL for z/OS
- IBM COBOL for OS/390
- IBM COBOL for MVS
- IBM VS COBOL II
- ANSI COBOL 85
- ANSI COBOL 74
- Micro Focus COBOL

Database:
- DB2
- Oracle
- SQL

Other Language & Middleware:
- IBM Enterprise PL/I for z/OS
- JCL
- CICS Transaction Server

IRIS™ Analyzer

IRIS™ Analyzer was developed as a culmination of decades of work within the areas of modernization process development, application analysis, transformation and quality improvement modeling. Whether your needs are as simple as redeveloping system knowledge and documentation or as complex as transforming COBOL logic into a new object-oriented framework, IRIS will improve accuracy, reduce time, and increase the overall quality of the effort.
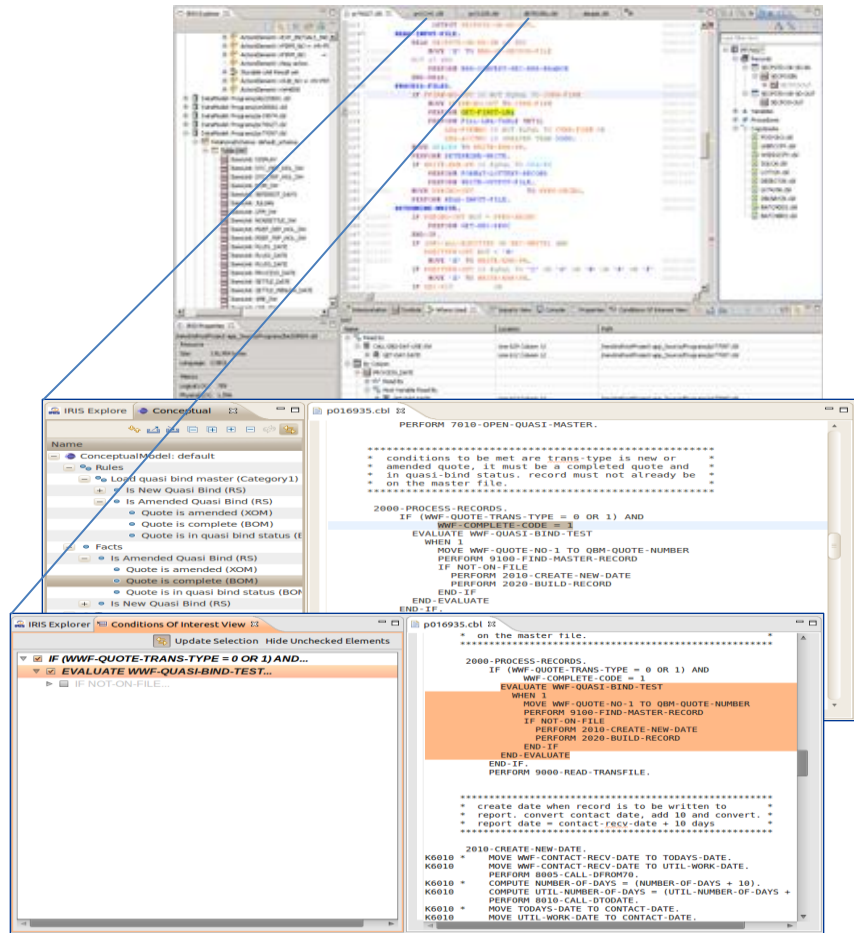
Experience the benefits of the today's most comprehensive COBOL Analysis tool

Productivity and Accuracy:

- Quickly produce detailed views of how the current systems works, ensuring a solid understanding of architecture, business rules, and data flow
- Produce metrics about size and complexity to help you make the right decisions about the future direction of your applications
- Use this information to automate enhancement or change to the applications with the confidence that comes from knowing the 'why', 'how', 'what' and 'where' of any change and its impact
- Have full traceability between original and changed applications

↑Speed ↓Cost:

- Acquire information light years faster – issues can be researched across the entire application in just a few simple steps
- Global change impact assessments can be done before any change effort starts, saving significant time later in the development cycle
- Be more flexible when assigning resources – new staff can literally become experts with an existing system in very little time
- Make more informed decisions with accurate system information and leverage that information for change requirements, produce change plans and implement high quality changes in a fraction of the time that it takes using traditional approaches
- Reduce testing cycles
- Reduce mainframe costs by identifying components that can be moved to lower cost platforms

IRIS Analyzer provides powerful insight into business logic, data lineage, where used information and much more.

Protect, Improve and Extend with Confidence

Our Services

Going Beyond Analysis

The real power of IRIS is where other tools leave off. If you need to apply significant change to your applications such as **code refactoring, software removal, business logic aggregation and extraction, and architectural changes,** our professional services can leverage the analysis information to **automate** many different transformation needs.

IRIS can transform code the way you need it to be structured, while the same benefits of greater accuracy and reduced time and cost still apply. Our services can deliver:

- **Platform migration –** Moving COBOL to a new computing environment
- **Code transformation –** Converting COBOL to C++, Java or .Net
- **Business Rule Orchestration –** Identifying, extracting and converting COBOL business logic to rules engines
- **SOA enablement –** Aggregating business functionality and identifying interface points
- **Cloud enablement –** Providing compiler and code level changes for porting to a cloud-based platform

Finally, there is a **modernization platform for COBOL applications that supports the full lifecycle of application understanding and transformation**. Throw out the old excuses of why it can't be done. Protect your multi-million dollar investment. Understand exactly how to improve it. Extend your COBOL into your technology strategy.

Product and Service Options

IRIS CLOUD	CLIENT / SERVER[1]	ANALYSIS SERVICES
Starting at	Starting at	Starting at
$2,500/ month	**$60,000**	**$25,000**
/ 5 users + storage/bandwidth (billed annually)	/ 5 users	
• Shared, Virtual, and Private Hosted Options • Multiple User License Packs Available • Pricing Based On Lines of Code	• Multiple User License Packs Available • Pricing Based On Lines of Code • Implementation Services Available	Custom Analysis Services; Integration Assessment; Architecture Discovery; Data Lineage; Business Rule Identification; Refactoring; Transformation

[1] **IRIS Server Technical Specifications:**

Minimum server requirements:
- 64-bit OS Options
- Red Hat Enterprise Linux 6.1 and above,
- CentOS 6.1 and above, or
- Windows Server 2k8 R2 and above
- 8 Cores
- 500GB Storage
- 32GB Memory