



Rocket® Visual COBOL®

(formerly a Micro Focus® product)



Rocket Visual COBOL is the market leading modernization solution for distributed COBOL applications.

Advanced COBOL application development tools available within Visual Studio Code, Visual Studio, and Eclipse provide teams with a development experience consistent with Java and C#. This enables fast, agile development and easy onboarding for new staff.

Patented compiler technology offers flexible deployment options across native platforms including Windows, UNIX and Linux as well as managed code environments such as .NET and the Java Virtual Machine (JVM). Existing COBOL applications seamlessly integrate with C# or Java systems enabling faster development and service delivery.

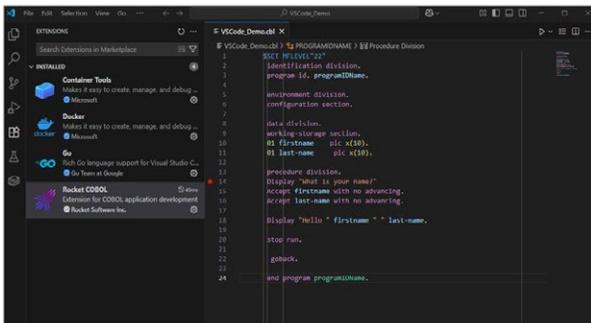


Fig 1. COBOL development using Visual Studio Code.

Benefits

Rocket Visual COBOL provides IT organizations with the ability to create new customer value from existing application investments. By reusing core application logic, Rocket Visual COBOL removes the risk associated with re-write or replacement strategies which expose the business to uncertain cost and extended delivery time frames.

With Rocket Visual COBOL, organizations can quickly and safely respond to new business requirements with predictable and highly cost-effective results.

Feature Overview

- 01 High-performance and optimized COBOL runtime environment.
- 02 Highly compatible upgrade path for existing Rocket® Net Express* and Rocket® Server Express* users.
- 03 The leading COBOL application development toolset available within Visual Studio Code, Visual Studio, and Eclipse.
- 04 Integrated application analysis and refactoring tools to accelerate modernization tasks and ease maintenance.
- 05 Application development and deployment across Windows, UNIX and Linux platforms. Extensive 3rd party support including application servers, databases and middleware components.
- 06 Direct generation to Java bytecode and Microsoft Intermediate Language (MSIL) for deployment to the Java Virtual Machine (JVM) or .NET platforms.

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Detailed Feature Overview



Patented compiler technology

The Rocket Visual COBOL compiler includes patented technology that offers unique and highly versatile options for COBOL application development. COBOL programs can be compiled to a variety of executable formats including:

- **Intermediate code (.int)** a platform portable executable format.

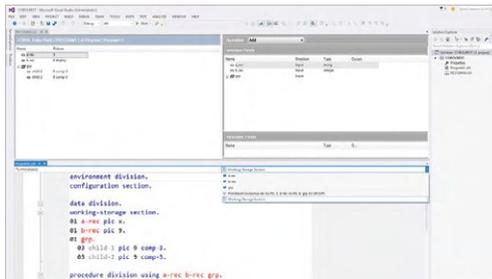


Fig 2. COBOL development using Visual Studio.

- **Generated code (.gnt)** an executable format optimized for the target platform.
- **Shared object (.so)** native shared object executable format for UNIX/Linux platforms.

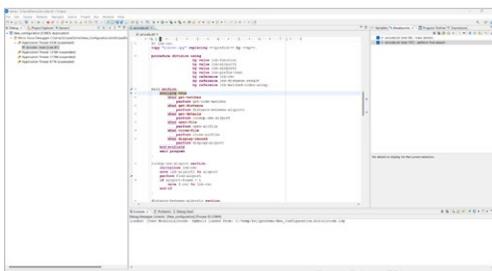


Fig 3. COBOL development using Eclipse.

- **Windows executable (.exe/dll)** native Windows executable formats.
- **Java bytecode (.class)** COBOL compiled to Java bytecode and executable with the JVM.
- **Net assembly (.exe/.dll)** COBOL compiled to MSIL and executable within the Microsoft Common Language Runtime (CLR).

The Rocket Visual COBOL compiler offers support for a wide variety of modern and older COBOL dialect variants and includes ANSI and ISO standards.

Feature Overview (CONTINUED)

07 A modern COBOL language syntax supporting new language constructs for object-oriented development and traditional procedural styles.

08 A toolkit for web services and API development using SOA, REST and JSON technologies based on existing COBOL applications.

09 Improve application availability and scalability using the optional Database File Handler component which automatically routes COBOL file IO into a relational database.

10 Resolve software defects faster and slash MTRR using optional patented debugging tools from Undo*. Integration points within Eclipse enable developers to record software failures “in the act” and replay in the debugger.

11 Gain instant context for any code snippet, function, or business rule and quickly summarize entire applications using GenAI Insights, available with Rocket COBOL Analyzer.

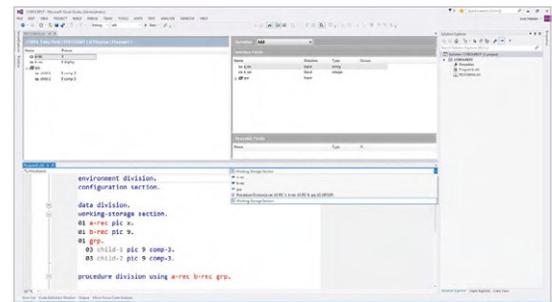


Fig 4. Rules-based analysis available within Rocket Visual COBOL for Visual Studio and Rocket Visual COBOL for Eclipse can be used to identify dead code and adherence to coding standards.



High-performance COBOL runtime environment

Rocket COBOL Server* provides a high-performance, platform-portable runtime environment for the execution of COBOL applications.

Consistent application behavior is provided across supported platforms and through use of a portable API layer, enabling developers to follow a write-once, deploy-anywhere approach.



Cross-platform deployment

The Rocket COBOL compiler and COBOL runtime system provides ubiquitous platform coverage enabling COBOL applications to be deployed across a range of distributed systems, ensuring compatibility and consistent behavior across different platforms. Standard library routines callable from COBOL applications enable application developers scope to write-once, deploy-anywhere yet still access operating system level functionality.

ISVs can target multiple platformws with the same COBOL codebase, increasing market coverage and reducing application testing overheads. Application owners can swiftly change operating platforms to take advantage of commodity hardware and more agile, flexible deployment options.

Additionally, Rocket Visual COBOL includes support for the Docker container platform, increasing flexibility for application development and deployment. Product packaging options enable Docker deployment on both Windows Server and Linux platforms. The latest release of Rocket Visual COBOL also adds ARM support, providing even more deployment options.



Database file handler

For COBOL applications using traditional file handler data storage, Rocket Visual COBOL offers a new mechanism to automatically route file records into a relational database providing improved reporting facilities using off the shelf database tools and improvements to application scalability and availability.

Supported Platforms

Rocket Visual COBOL supports the following platforms and 3rd party technology:

PRODUCTS

Application Intelligence

- Rocket® COBOL Analyzer*

Application development

- Rocket® Visual COBOL for Visual Studio
- Rocket® Visual COBOL for Eclipse
- Rocket® Visual COBOL Development Hub

Application deployment

- Rocket® COBOL Server

Development environments

- Visual Studio
- Eclipse
- Visual Studio Code

Platforms

- Windows and Windows Server
- IBM® AIX
- Solaris SPARC and Intel
- SUSE on Intel and zSystems
- Red Hat on Intel and zSystems
- Red Hat ARM
- Oracle Red Hat Compatible and Unbreakable
- Kernel
- Ubuntu
- Rocky

Java

- Oracle Java
- Adopt OpenJDK

Application servers

- Tomcat
- JBOSS
- Websphere and Websphere Liberty
- WebLogic

Relational databases

- Oracle
- SQL Server
- Db2®
- PostgreSQL
- MySQL

Middleware

- TXSeries
- Tuxedo

.Net

- .NET Framework
- .NET Core

Docker

- Community and Enterprise Editions
- Windows Server and supported Linux distros

Podman/OCI

- RHEL

Cloud

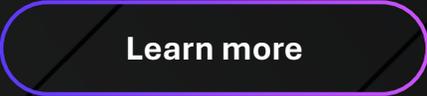
- AWS
- AWS Linux
- Azure
- Google Cloud Provider

*Formerly Micro Focus products.



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