



# Rocket® AcuSQL®

(formerly a Micro Focus® product)



Embedded SQL. It's ingrained in your COBOL programs. It's what binds your legacy applications to your relational data. It gives your users precise access to the information they need to do their jobs. Rocket **AcuSQL** is an embedded SQL precompiler designed for businesses like yours. It scans your COBOL source file for SQL statements and translates them into COBOL CALL statements that the **ACUCOBOL-GT** compiler can process. At runtime, a powerful SQL runtime library provides seamless access to your data.

## Product Overview

Rocket **AcuSQL**\* is a simple, cost-effective solution for those who use embedded SQL statements in their COBOL programs to access SQL-conversant data sources. Rocket **AcuSQL** is a Structured Query Language (SQL) precompiler that supports the inclusion of embedded SQL (ESQL) statements in **ACUCOBOL-GT** program source code. The Rocket **AcuSQL**

precompiler, in combination with a Rocket **AcuSQL** runtime library, allows your ESQL COBOL programs to access in ISO/ANSI SQL92-compliant data sources such as MySQL, Microsoft SQL Server and IBM DB2. Rocket **AcuSQL** supports both static and dynamic SQL so you can control the queries sent to the database as much as required.

## Key Benefits



Leverage the power and flexibility of SQL from COBOL.



Simplify the COBOL code needed to perform data operations.



Execute complex data operations that utilize the capabilities of the database engine.



Write applications tailored to a wide variety of individual databases.



Develop and deploy on Windows, UNIX and/or Linux (choice of server is database-dependent).

## Key Features

Rocket **AcuSQL** is a simple, cost-effective solution for IT organizations which want to use embedded SQL statements in their COBOL programs to access SQL-conversant data sources.



### Access to Multiple Databases

Rocket **AcuSQL** gives your end users access to ISO/ANSI SQL92-conversant data sources. It is certified to work with Microsoft SQL Server, IBM DB2 and MySQL.



### Stored Procedures

Using Microsoft SQL Server, you can create a set of stored procedures for accessing database tables — procedures for inserting, deleting, reading, and updating records as well as starting a file. Rocket **AcuSQL** checks for stored procedures whenever it opens a database file, decreasing processing time and reducing network traffic. Enjoy more uniformity and easier maintenance as single procedures are accessed by multiple applications.



### Flexibility in Source File Format

The precompiler can read and parse source code files in two common formats: Terminal and ANSI. You can also pre-compile “mixed-mode” files that contain both terminal and ANSI source formats. This flexibility enables you to use existing files regardless of format. Rocket **AcuSQL** even processes ESQL statements within COPY files.



### Integration with Rocket AcuBench

The Rocket **AcuSQL** precompiler and its options are tightly integrated into the Rocket AcuBench development environment, providing a seamless, single-step compilation of both SQL and COBOL into one executable object. You can easily include your source files with ESQL in an Rocket **AcuBench** project and precompile them as part of a standard build function. You can easily edit files containing ESQL in the Code Editor and debug them with the runtime debugger.



### Precision and Performance

Rocket **AcuSQL** allows you to specify the exact SQL commands to use when accessing your data. This results in tighter control over the volume and nature of data being retrieved. As a result, your queries are processed faster and more efficiently than by alternate methods.



### Transaction Processing Support

Rocket **AcuSQL** supports syntax for beginning, committing and rolling back embedded transactions. This lets you take advantage of the benefits of a transaction management system when the need arises.



### Ease of Use

When you use the Rocket **ACUCOBOL-GT\*** compiler to drive the precompiler, everything is automatic. The compiler starts compiling the file and it parses anything it finds between an “EXEC SQL” and “END-EXEC” statement to Rocket **AcuSQL**. Successful compilation results in an object file that is ready for immediate execution by the runtime. There is no link step so you have improved productivity and delivered a shorter development cycle.



### Database Syntax Checking

Rocket **AcuSQL** performs syntax checking of embedded SQL statements. You select the level of syntax checking desired, relaxed or strict, at the program, or command level. There is an option to pass SQL statements directly to the database engine for validation.

## Other Key Features



**Conforms to the ISO/ANSI SQL-92 standard: Most SQL verbs are supported, including but not limited to**

CONNECT, DISCONNECT, SELECT, FETCH, INSERT, DELETE and UPDATE. This enables you to access databases that conform to the same standard.



### Transparent data interface

For superior performance, Rocket **AcuSQL** employs an ODBC interface to all of the databases that it supports. All data access is transparent to the end user. Rocket **AcuSQL** also offers a highly customized runtime library for use with Microsoft SQL Server.



### File tracing

The Rocket **ACUCOBOL-GT** runtime file-trace option generates useful information about file I/O activity. This is useful when you are attempting to locate file I/O-related problems. File tracing simplifies troubleshooting.

\* Formerly Micro Focus® products.

## Product Specifications and System Requirements

**COBOL applications can be run on any of the following hosts:**

UNIX, Linux, Windows 8, Windows 11, Windows Server 2016, Windows Server 2019, Windows Server 2022

**Data sources can be hosted on one (or more) of the following environments:**

UNIX, Linux, Windows 8, Windows 10, Windows 11, **Windows Server 2016, Windows Server 2019, Windows Server 2022**, OS390 (DB2 only)



**Modernization. Without Disruption.™**

Visit [RocketSoftware.com](https://RocketSoftware.com) >

© Rocket Software, Inc. or its affiliates 2024. All rights reserved. Rocket and the Rocket Software logos are registered trademarks of Rocket Software, Inc. Other product and service names might be trademarks of Rocket Software or its affiliates.

Micro Focus® is a registered trademark of Micro Focus IP Development Ltd. Rocket Software is not affiliated with Micro Focus IP Development Ltd.

MAR-10023\_DS\_AcuSQL\_V4

[Learn more](#)

