

Micro Focus Server™ for COBOL

Micro Focus Server for COBOL provides a scalable, managed and high-performance environment for the deployment of COBOL applications.

Benefits

- Fast, scalable COBOL deployment
- Combines performance with portability across Windows, UNIX and Linux
- Comprehensive Data Access options
- 32-bit and 64-bit deployment across Windows, UNIX and Linux

Overview

Micro Focus Server™ for COBOL is the deployment component for COBOL applications and services created using Micro Focus Server Express™ or Micro Focus Net Express® development products. Micro Focus Server for COBOL provides a high-performance, robust, proven and portable platform for the deployment of COBOL applications on Windows, UNIX and Linux.

Other products in the Micro Focus Server group include:

- **Micro Focus Server for .NET** which enables COBOL applications to be deployed under the Microsoft .NET Framework.
- **Micro Focus Server for SOA** which also provides support for the deployment of COBOL applications that have been extended in usage through a Service Oriented Architecture such as Web services and COBOL/J2EE integration.
- **Micro Focus Server Enterprise Edition** adds the ability to deploy applications migrated from the IBM Mainframe including CICS, IMS and JCL code.

Improved Reliability, Availability and Serviceability

The evolution of Micro Focus deployment software over the last thirty years is the key ensuring an application performs its intended function reliably, day in and day out.

However, systems can fail for many reasons, which is why Micro Focus Server also provides advanced production recovery capabilities to ensure service is restored in the shortest possible time.

Optimized Application Performance

The demand for increased application processing is constant. This is partially satisfied by the continued increase in processor power, but customers demand greater reliability and faster recovery when things do go wrong. Micro Focus Server is designed with performance and scalability in mind. When coupled with the ability to run native machine code instructions generated from a single source base, it provides the ability to utilize the full performance capabilities of the 32-bit or 64-bit deployment platform.

Cross Platform Application Support

Micro Focus Server delivers intermediate code support for applications that are operating system independent. Micro Focus Run-Time System (RTS) engine provides the programmer with full intermediate code portability from a single set of COBOL source code. This is the COBOL equivalent of the Java byte code with RTS performing, similar functions of the Java Virtual Machine or the .NET Common Language Run-time (CLR). In this way, we achieve the 'write once, run anywhere' characteristic that has been an intrinsic part of Micro Focus COBOL since its inception over a quarter of a century ago.

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Native Code Support that Fully Exploits Individual Platform Performance

The Micro Focus RTS can also execute fully optimized, hardware specific 'Native Code' instructions created during the development process to extract the maximum performance from a given operating system/chipset combination. All this is achieved without the need of any changes to the original source code.

Multiple Debugging Options

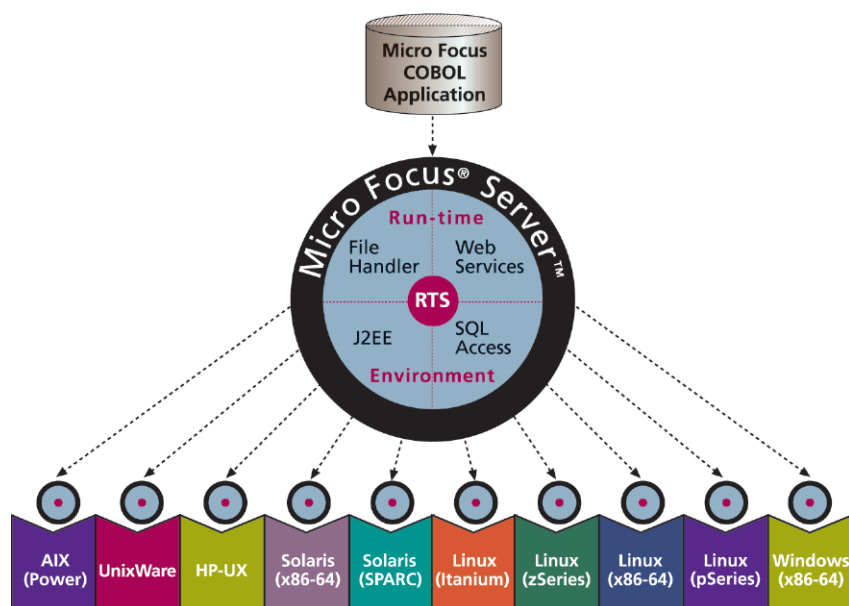
FaultFinder

When applications fail in production, you often cannot use your regular debugging techniques to locate the problem. You may not have the source code available or you cannot easily reproduce the problem. FaultFinder is designed to provide you with the help you need in these critical situations. It provides you with a snapshot of your application, just at the point where the application failed, and provides fully configurable and comprehensive fault diagnostic information including:

- Detailed analysis of your execution environment including environment variables, configuration options, switch settings, etc.
- Comprehensive memory allocation and usage details
- A snapshot of the data files being processed and their file descriptors
- Threading information, active programs (call stack) and their parameters
- Loaded programs and associated data
- Actual machine code operation at which the application aborted and a history of other operations performed prior to failure

Consolidated Tracing Facility (CTF)

This is a tracing infrastructure that enables you to quickly and easily produce diagnostic information detailing the operation of Micro Focus software components. A number of components are enabled to provide information using the Consolidated Tracing Facility. These currently include



Micro Focus COBOL, the original 'write once, run anywhere' language.

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the run-time system and file handler, as well as the interface mapping and Enterprise Server XA switch components.

CTF uses modules called 'emitters' to output trace events to one or more output destinations. Currently supported emitters are **textfile**, **binfile**, **idedbg** and **winevent**. The **textfile** and **binfile** emitters are supported on all Micro Focus Server platforms, while the **idedbg** and **winevent** emitters are supported on Windows platform only. The binary trace files created on both platforms by the **binfile** emitter are viewed using the CTF Viewer installed in the Net Express latest version.

As well as producing tracing information for Micro Focus software components, CTF also provides a number of library routines that allow user applications to produce tracing information themselves. Trace events output by user applications will be interleaved with events output by the Micro Focus components. CTF is configured via a single configuration file and/or APIs.

Web Service Client Support

Micro Focus Server now includes Web service COBOL client support for the consumption of Web services from COBOL. Using this support, a standards-based Web service (for example, a Web service created by .NET or IBM Websphere, or a Micro Focus direct COBOL Web service deployed with Micro Focus Server) can be invoked directly from COBOL without going through any other language or technology.

COBOL/XML Support

The new COBOL/XML support allows you to seamlessly integrate the power of XML with COBOL applications. With this extended syntax and run-time capability, you can consume, create or update XML documents from COBOL facilitating Business to Business (B2B) and Business to Commerce (B2C) transactions and providing the ability to share data with other applications and systems that have no direct interface with your COBOL system.

Comprehensive Data Access Options

With Micro Focus Server, you can utilize the power of OpenESQL to access all data sources for which an ODBC driver exists or alternatively, harness all the power of COBOL's flexible, high-performance file handling system. By combining Micro Focus Server with industry standard ODBC drivers, COBOL applications can realize high-performance and reliable connectivity to all major databases.

Data Management

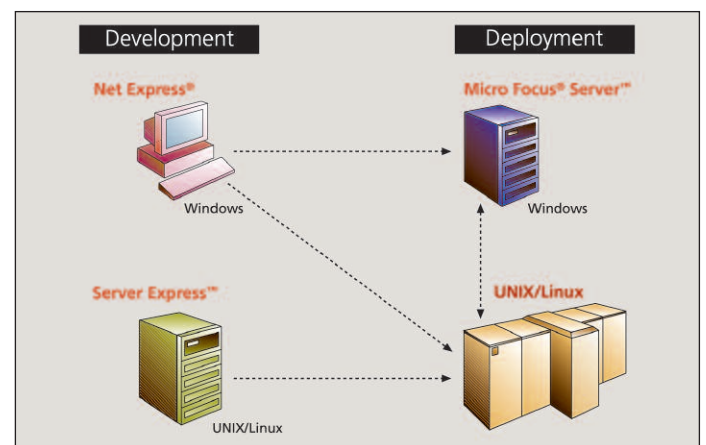
Rebuild enables you to quickly repair corrupt index files, as well as providing you with the ability to quickly and easily change data file formats.

Technical Specifications

- Windows Server 2008, Windows Vista, Windows Server™ 2003, Windows® XP or Windows 2000
- Server Express provides support for many UNIX and Linux platforms.

For the latest platform details, see UNIX Product Matrix at <http://supportline.microfocus.com/productreleaselevels/unix.asp>

For full technical specifications, please see the products section on www.microfocus.com



Developing and deploying Micro Focus COBOL applications.

About Micro Focus

Micro Focus, a member of the FTSE 250, provides innovative software that allows companies to dramatically improve the business value of their enterprise applications. Micro Focus Enterprise Application Modernization and Management software enables customers' business applications to respond rapidly to market changes and embrace modern architectures with reduced cost and risk. For additional information please visit www.microfocus.com

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