COBOL-IT®
Compiler Suite
Enterprise Edition

COBOL-IT Compiler Suite Enterprise Edition is an Enterprise COBOL Compiler Suite that is highly adapted to the needs of Enterprises with Mission Critical COBOL components in their Enterprise Solution Stack.

COBOL-IT Compiler Suite Enterprise Edition enables you to compile existing Enterprise COBOL programs and run the compiled objects in all Open Systems Unix, Linux, and Windows platforms.

COBOL-IT Compiler Suite Enterprise Edition provides interoperability with all of the core elements of your Enterprise Solution Stack, including databases, transactional monitors, data manipulation tools, indexed file systems and third-party tools.

COBOL-IT is adapted to the needs of the Enterprise-class Customer. Our technical teams have a record of success in completing transitions with minimal cost and minimal risk.

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A POWERFUL TOOL SET

The COBOL-IT Compiler Suite Enterprise Edition® toolset includes:

COBOL-IT Compiler, Runtime and Debugger

An ANSI-85 compliant COBOL compiler,
Runtime libraries that have been developed to lower your costs and lower your risks by providing higher compatibility, interoperability and performance within your Enterprise Solution Stack,
A COBOL runtime which can be used to launch shared objects,
A powerful debugger API, expressed in both a command-line debugger and in an Eclipse-based Debugger Perspective. The COBOL-IT Debugger API can be adapted by the user for their own needs. Debugging tools include a Core Dump utility and a Profiling utility which are built to provide data for analyzing.

CitSORT

CitSORT, a high-performance external SORT utility that is highly compatible with other COBOL external SORT utilities.
CitSORT allows for reformatting of data that has been sorted, providing a useful reporting utility.
CitSORT provides data import and export functionality that can greatly facilitate the migration of data between indexed file systems or between sequential files and indexed files.
CitSORT can be configured to take full advantage of the multiprocessing capabilities of a host server.

More...

EXTFH and EXTSM interfaces allowing industry-leading ISAM file systems and Data Manipulation Tools to be used with COBOL-IT.

Profiler, a profiling tool that tracks where the runtime spends time and generates a report in a comma-separated format that can be viewed in Excel.

A Core Dump utility that can be used to analyze the precise state of your application at the moment an ABEND occurs.

Special performance optimizations for large object files.

VBISAM, an Open Source ISAM file system well-suited for development needs.

COMPATIBILITY

COBOL-IT's high level of compatibility with other COBOL compilers minimizes costs by shortening the time it takes to complete your move to COBOL-IT.

COBOL-IT aims not only to provide compatibility at the syntax level but for the different behaviors that different COBOL vendors have developed naturally over the years.

COBOL-IT technicians will help you emulate the compiler flags and directives used by your application, so that your compile and runtime behaviors can be maintained.

COBOL-IT's success in achieving a high level of compatibility with the Micro Focus compilers is demonstrated by our record of success in helping Micro Focus Customers move to COBOL-IT.

PERFORMANCE

COBOL-IT object code derives some of its high performance from providing access to the optimization capabilities of the host "C" compiler, but it also possesses a wide range of optimization options that can make it run even faster.

Specific optimizations exist for:
Optimizing the object code for speed.
Passing "C" compiler flags for optimization directly to the host "C" compiler. The
CALL statement, both for resolving file names, and mapping external links. The
INITIALIZE statement, to improve the speed of initializing large tables.
The COMPUTE statement, where decimal conversions to binary are required.
The PERFORM statement, where tests for the return from the PERFORM are required.
The IF statement, where comparisons are made between literals and variables.
COBOL-IT's high-performance external sort utility, CITSORT, provides an invaluable replacement to
other external sort utilities such as DFSort on the Mainframe and MFSort in Open Systems.

INTEROPERABILITY

Interoperability with third-party products is greatly facilitated by the COBOL-IT function of translating COBOL into "C" and using the host "C" compiler to create executable objects.

The COBOL-IT Compiler Suite Enterprise Edition allows you to build objects that interoperate with applications written in every programming language.

COBOL-IT works in partnership with the leading providers of Middleware and Database Solutions.

COBOL-IT's support for the EXTFH and EXTSM interfaces ensure that you will have connectivity to the file systems you require.

You can be assured that COBOL-IT will fit comfortably in your Enterprise Solution Stack.

Enterprise applications have very strict performance requirements. COBOL-IT's success is a reflection of their ability to consistently meet and surpass these requirements.

The COBOL-IT Compiler has the unique ability to fully leverage all of the characteristics of the "C" compiler, which are the product of years of research and development on the part of the platform vendor, and which include host-specific performance optimizations.

COBOL-IT Compiler Suite Enterprise Edition also provides a very high-performance external SORT utility, CitSORT, which can be configured to take full advantage of the multi-processing capabilities of the host server.

The COBOL-IT Profiler allows you to analyze where your application is spending time and consider ways to improve the performance.

The COBOL-IT Enterprise Runtime System, using COBOL-IT's Enterprise Runtime Libraries, has built-in optimizations for very large object files.

LOW COSTS + LOW RISKS = HIGH VALUE

COBOL-IT's commitment in the development of its products and its technical services is to provide you with smoothest transition possible with the fewest changes to your application.

Altogether, this ensures that you can complete your transition successfully with the lowest costs and the lowest risks and realize the highest value from your investment in COBOL-IT.

COBOL-IT COMPILER SUITE FEATURES AND BENEFITS

FEATURE	BENEFIT
Availability on all Open System Platforms	Easy to transition from any COBOL compiler on any system.
Open Source Core Technology	Allows COBOL-IT to provide the highest value possible with a COBOL compiler that satisfies your requirements.
Subscription-based Pricing	Provides Customers with a flat rate that secures the services they need when they need them. Customers avoid expensive and sometimes unpredictable new license costs.
Highly optimizable object code	COBOL-IT objects are created with the host machine's "C" compiler. All the optimization capabilities of the "C" compiler are available to the COBOL programmer. When performance is critical, COBOL-IT fast performance can often be made even faster.
Compiler configuration file	Eases the transition of applications developed using other COBOL compilers, which may contain a lot of compiler flags and directives. COBOL-IT technicians and certified COBOL-IT partners can help you navigate through these issues and greatly shorten your transition time, saving you a lot of money.

Compatibility with EXTFH and EXTSM	EXTFH compatibility provides the COBOL-IT Enterprise Runtime System connectivity to any ISAM file system that is also EXTFH-compatible. EXTSM compatibility provides accessibility to any external data manipulation module that is EXTSM compatible.
Database connectivity	COBOL-IT allows you to connect to Oracle 10 and Oracle 11 databases using the Oracle Pro*COBOL pre-compiler. COBOL-IT's CitSQL Family of Pre-compilers provide connectivity to MySQL, PostgreSQL, and Microsoft SQL Server databases.
High-Performance External SORT Utility	CitSORT is a very high performance external data manipulation / sort utility which uses syntax compatible with DFSORT, MFSORT and ACUSort. It provides a straightforward plug-and-play replacement for these other utilities in most cases.
ICU Code-page Support	Opens the widest range of code-pages to users of COBOL-IT to ensure that they will be able to develop their applications for users around the globe.
EBCDIC Character Set Handling	Provides a high-value capability for Mainframe users allowing them to perform batch processing in a Mainframe/Unix share folder. COBOL-IT's support for the EBCDIC character set allows for the COBOL-IT compiler/runtime to be used and save expensive mainframe cycles.
Profiler	Records where the runtime is spending time, so that performance bottlenecks can be easily identified and removed.
Debugging Tools	The debugger engine, cobcdb, is documented, and provides the ability to set breakpoints, do a number of stepping operations, modify and display variables and reproduce the state of programs loaded in memory in ABEND situations.
Checkpoint-Restore	Users can store the state of their application runtime session in a checkpoint file. This file can be used to restore the state of the runtime session, and resume the runtime session at the checkpoint.

PLATFORM SUPPORT

For the most recent information about Platform Support for the COBOL-IT Compiler Suite Enterprise Edition, please reference the COBOL-IT Port List.

About COBOL-IT

COBOL-IT is the first company to offer a high quality, professional COBOL compiler to large enterprises seeking to migrate, deploy and maintain their COBOL applications at the lowest cost and lowest risk. Founded in 2008, COBOL-IT has rapidly assumed a position of leadership in the global COBOL community, migrating hundreds of customers, with hundreds of thousands of users and hundreds of millions of lines of COBOL code.

With a robust product suite and a proven migration process, the company provides solutions that allow clients to preserve the functionality of their strategic COBOL applications, with superior performance, agility and a significant reduction in costs.

Technical Hubs located around the world allow COBOL-IT to guarantee that all of our clients have access to expert, responsive technical support.

Partnership agreements between COBOL-IT and the leading providers of technical services and software solutions in Open Systems ensure that moving to COBOL-IT can be accomplished at the lowest cost and low risk everywhere in the world.

For more information, visit COBOL-IT at: www.cobol-it.com
Follow COBOL-IT on Twitter: https://twitter.com/cobol_it

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