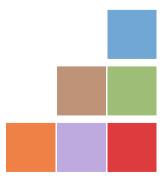






COBOL-IT® Compiler Suite Enterprise Edition

Quick Start Version 3.11







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Acknowledgment

This documentation is derived from COBOL-IT Source code, parts of which are derived from OpenCOBOL.

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Compiler, Runtime, and Debugger Topics

Introduction

This document describes how to install and how to use the COBOL-IT Compiler Suite.

This file contains part of the initial OpenCOBOL manual.

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COBOL-IT Compiler Suite

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The executable components in the COBOL-IT Compiler Suite, cobc and cobcrun are based on OpenCOBOL, originally developed by Keisuke Nishida and maintained since 2007 by Roger While.





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COBOL-IT Runtime System

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The executable component in the COBOL-IT runtime system, libcobit is based on the libcob library originally developed by Keisuke Nishida and maintained since 2007 by Roger While.

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Installing COBOL-IT

The COBOL-IT compiler cobc requires that a "C" Compiler be installed on the host platform.

For a complete port list, including "C" Compilers that have been tested and are supported, see Port List with Supported "C" Compilers.

Installing the binary distributions (Linux/Unix)

The COBOL-IT Linux/Unix 32-bit binary distributions are intended to be installed in /opt/cobol-it. The COBOL-IT Linux/Unix 64-bit binary distributions are intended to be installed in /opt/cobol-it-64. They are provided as gzipped tar files.

An example with a 32-bit Linux binary distribution:

As a root user, download the binaries that are compatible with your platform. From the folder in which the COBOL-IT binary is located:

Unzip/unpack the file:

```
# tar zxpf cobol-it-3.10.11-enterprise-32-i786-pc-linux-gnu.tar.gz
-C /opt/
```

This will unpack the distribution in /opt/cobol-it.

Copy the citlicense.xml to /opt/cobol-it.

Run the cobol-it-setup script to set all needed environment variables:

```
$ source /opt/cobol-it/bin/cobol-it-setup.sh or
$ . /opt/cobol-it/bin/cobol-it-setup.sh
```

Installing the binary distributions (Windows)

Click on the Windows-Setup executable to launch the setup. The Windows setup requires that you indicate which version of Visual Studio you have installed on your machine. If COBOL-IT does not detect the "C" compiler selected during installation on your Windows machine, it will return an error message.

After the setup is complete you will have a Quick Launch Shortcut, which will cause the setenv_cobolit.bat file to be executed when you open your command shell. Setenv_cobolit.bat sets all the environment variables needed to begin using the COBOL-IT Compiler Suite.

Citlicense.xml

By default, the citlicense.xml should be located in the installation directory.

Windows 32 C:\COBOL\COBOL-IT Windows 64 C:\COBOL\COBOL-IT64

UNIX/Linux 32 /opt/cobol-it UNIX/Linux 64 /opt/cobol-it-64





Compile and run hello.cbl

COBOL-IT creates compiles to a shared object format by default. Compiler with cobc and run with cobcrun.

>cobc hello.cbl
>cobcrun hello

Copy files

The COBOL-IT compiler can be directed to search for copy files in directories using the -I <dir> compiler flag. Default copy file extensions are .cpy, .cob, .cbl and [no extension]. If you have any other copy file extension, you should use the -ext [extension] compiler flag.

-ext <extension> Add file extension to list of default extensions -I <directory> Add <directory> to copy/include search path

>cobc -I ./copy hello.cbl

CALL'ed programs

When you compile your source code, you probably will want to create the compiled objects in a separate directory, and run them from this separate directory. To create compiled objects in a separate directory, use the –o compiler flag.

>cobc -o ./object hello.cbl

To run shared objects from a separate directory, set the COB_LIBRARY_PATH environment variable. The COB_LIBRARY_PATH is the directory used by the runtime to locate share objects.

>export COB LIBRARY PATH=./object

Data files

Locate your data files using the COB_FILE_PATH runtime environment variable. The COB_FILE_PATH is the path to the data files used by the application.

>export COB FILE PATH=./data

Runtime error messages

Capture runtime error messages using the COB_ERROR_FILE runtime environment variable. The COB_ERROR_FILE is the file to which all runtime error messages are written that would otherwise be written to stderr.

>export COB ERROR FILE=coberr.txt

For details about all compiler flags and runtime environment variable, see the Compiler & Runtime Reference Manual.





Using the COBOL-IT Debugger

The COBOL-IT Debugger (cobcdb) runs shared object files that have been created by the COBOL-IT Compiler (cobc) and that have been compiled with the –g compiler flag. Run the COBOL-IT debugger from the command line with the command >cobcdb [program-name]. For example:

C:\COBOL\CobolIT\samples>cobcdb hello

Step through the code with the "step" command. (cobcdb)

Step

Terminate the debugging session with the "stop" command (cobcdb)

Stop

For details about all of the COBOL-IT Debugger options and parameters, see the COBOL-IT Compiler and Runtime Reference Manual.

COBOL-IT E-Learning

For more information, please visit http://www.cobol-it.com/resources.html for access to COBOL-IT's E-Learning modules. Please contact your sales representative at sales@cobol-it.com for information about how you can access the full set of COBOL-IT Documentation and Software.









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May, 2018



