Omb MultiOberon/BlackBox Quick-Start

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Omb is the instance of MultiOberon compiler with BlackBox backend. Based on Ominc CP DevCompiler. Version 0.8 24-May-2019

How to Start from Command Line.

1 Installation

1. Preconditions.

Omb doesn't use any other services. Process all the commands below from the Mob-master root dir.

2 Compiling examples

Bbwe\OmbSh co OmtestHelloWorld

A new symbol file is created first, then OmtestHelloWorld.mod is compiled to Omtest/Code/HelloWorld.ocf. A list of files can be compiled.

Bbwe\OmbSh ru OmtestHelloWorld

Run OmtestHelloWorld.ocf with Omb Shell as dynamically loaded module.

Bbwe\OmbSh ex OmtestHelloWorld

Execute means both compile and run OmtestHelloWorld.mod with Omb Shell.

Bbwe\OmbSh ex -odc OmtestHelloWorld

Option –odc takes BlackBox OmtestHelloWorld.odc file instead of mod, valid for co and ru commands.

Bbwe\OmbSh co -odc OmtestHelloWorld OmtestFormats OmtestDateTime OmtestMkTraps OmtestHeap

The command above compiles all the examples listed

3 Linking modules

Bbwe\OmbSh li Kernel+ Log Math Strings OStrings OLog HostConLog Runner OmtestHelloWorld -dos -o Omtest/Code/OmtestHelloWorld

Links to executive OmtestHelloWorld

4 Example set

bwe tomake

Makes all the executives of example set bwe toclean

Cleans all the executives of example set

How to Start from Black Box

1 Installation

1. Preconditions.

doesn't use any other services. StartupBlackBox from the Mob-master root dir must be edited to set exact pathname of BlackBox component builder.

2. Compile the following modules:

^Q DevCompiler.CompileThis OmcTarget OmcCRuntime OmcHooks OmcDialog OmcOPM OmcOPT OmcOPU OmcOPB OmcOPS OmcOPP OmcDump OmcParams OmcOdcSource OmcTxtSource OmcRuntimeStd OmcDialogStd OmcDialogConsole OmcCompiler OmcHostDialog OmcConsole OmbOPE OmbOPH OmbOPL486 OmbOPC486 OmbOPV486 OmbBackEnd OmbCompiler OmbLinkProcessor OmbLinker

3 Compiling the examples

Compile the following modules:

 Q OmbCompiler.CompileThis OmtestHelloWorld OmtestFormats OmtestDateTime OmtestMkTraps OmtestHeap

Link executives to call them from console

```
^Q OmbLinker.LinkExe dos "Omtest/Code/OmtestHelloWorld.exe" :=
Kernel$+ Log Math Strings OStrings OLog HostConLog Runner OmtestHelloWorld
^Q OmbLinker.LinkExe dos "Omtest/Code/OmtestFormats.exe" :=
Kernel$+ Log Math Strings OStrings OLog HostConLog Runner OmtestFormats
^Q OmbLinker.LinkExe dos "Omtest/Code/OmtestDateTime.exe" :=
Kernel$+ Log Math Strings OStrings OLog Times HostConLog HostTimes Runner
OmtestDateTime
^Q OmbLinker.LinkExe dos "Omtest/Code/OmtestMkTraps.exe" :=
Kernel$+ Log Math Strings OStrings OLog HostConLog Runner OmtestMkTraps
^Q OmbLinker.LinkExe dos "Omtest/Code/OmtestHeap.exe" :=
Kernel$+ Log Math Strings OStrings OLog HostConLog Runner OmtestHeap
```

4 Running the examples

4.1. The simplest Hello, World example

^Q OmtestHelloWorld.Run

Logging with char, int and real formats

^O OmtestFormats.Run

4.2 Shows date, time and delay

^Q OmtestDateTime.Run

4.3 Traps handling abilities of runtime Simple Assert

```
^Q "OmtestMkTraps.RunOpt('a')"
Simple Halt
^Q "OmtestMkTraps.RunOpt('h')"
Zero divide
^Q "OmtestMkTraps.RunOpt('z')"
Nil pointer dereference
^Q "OmtestMkTraps.RunOpt('p')"
```

4.4 Dynamic memory and garbage collector

^Q OmtestHeap.Run

5 Self-Compiling Omb Shell

Self-Compile console Oberon Shell.

^Q OmbCompiler.CompileThis OmcTarget OmcCRuntime OmcHooks OmcDialog OmcOPM OmcOPT OmcOPU OmcOPB OmcOPP OmcDump OmcParams OmcOdcSource OmcTxtSource OmcRuntimeStd OmcDialogStd OmcDialogConsole OmcCompiler OmcHostDialog OmcConsole OmcShell OmbOPE OmbOPH OmbOPL486 OmbOPC486 OmbOPV486 OmbBackEnd OmbCompiler OmbLinkProcessor OmbLinker OmbLinkConsole OmbLoader OmbSh

Self-Link console Oberon Shell.

^Q OmbLinker.LinkExe dos "Bbwe/OmbSh.exe" :=
Kernel\$+ Log Math Strings OStrings OLog HostConLog Runner Files HostFiles
Cfgfile Dates Dialog Stores Sequencers Models Services Fonts Meta Converters
Ports Views Controllers Properties Mechanisms Containers Printers Printing
OmcHostDialog Documents TextModels TextRulers TextSetters TextViews OmcTarget
OmcCRuntime OmcDialog OmcHooks OmcOPM OmcOPT OmcOPB OmcOPU OmcOPS OmcOPP
OmcParams OmcOdcSource OmcDialogConsole OmcRuntimeStd OmcConsole OmcShell OmbOPE
OmbOPH OmbOPL486 OmbOPC486 OmbOPV486 OmbBackEnd OmbLoader OmbLinkProcessor OmbSh

6 Unloading Omb Compiler

^Q DevDebug.UnloadThis OmbLinker OmbLinkProcessor OmbCompiler OmbBackEnd OmbOPV486 OmbOPC486 OmbOPL486 OmbOPH OmbOPE OmcCompiler OmcDialogStd OmcRuntimeStd OmcOdcSource OmcParams OmcDump OmcOPP OmcOPS OmcOPU OmcOPB OmcOPT OmcOPM OmcDialog OmcHooks OmcCRuntime OmcTarget

7 Change Log

may 2019 original MultiOberon pre-version 0.8 released

Use it and enjoy! - ЎЪsalos y disfrъtalos! - Bonne utilisation - Приятного использования - Powodzenia - Viel SpaЯ

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