

Freescale MQX RTOS Example Guide

Cplus example

This document describes the Cplus example which demonstrates the C++ driver support of the compiler. The Cplus example declares one class named HelloWorld and then illustrates its use in the cplus_task task.

Running the example

The Cplus example requires the BSPCFG_ENABLE_CPP macro to be set to non-zero in the user_config.h file prior to compilation of MQX libraries and the example itself.

To run the example the corresponding IDE, compiler, debugger and a terminal program are needed.

Explaining the example

The application example defines a C++ class named HelloWorld and creates only one task called cplus_task to demonstrate the property of that class.

The class HelloWorld comprises of constructor, destructor and a method which will output the status of initialization of the class instance.

Several instances of class HelloWorld are created and then explicitly destroyed by calling *delete* command or implicitly destroyed as the program counter exit the block in which the instance is created and used.

The following output on the terminal is expected as you run the Cplus example.

```
global: Constructed OK
local: Constructed OK
heap: Constructed OK
heap: deallocation
local: deallocation
```