Freescale MQX RTOS Example Guide

LOG lite example

This document explains the Log_lite example, what to expect from the example and a brief introduction to the API used.

The example

The example shows the usage of the log component of RTOS MQX. The log allows user's application program to record the information about the context switch as tasks being re-scheduled and interrupt happened in the application program. The log API is used to enable log for specific component and to display log information to terminal.

Running the example

The user only needs to do compilation of MQX libraries, ksdk library and the example without any further step.

Then we compile the project log lite.

In <MQX folder>\rtos\mqx\config\mcu\<board>\mqx sdk config.h please set

#define MQX USE LOGS

1

If the platform supports floating point, you have to disable floating point:

#define MQXCFG ENABLE FP

0

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

Explaining the example

The application example creates only one task called main task.

The main_task creates the log component as it is optional component of RTOS ${\tt MQX}.$

The log is then created which allows user to write any data into it and then to retrieve the information later in time.

The log component is more flexible than kernel log as user defined data can be recorded.

The log API functions _log_write() and _log_read() are used for writing and reading logs.

The log is destroyed and the main_task is blocked.

The user is prompted to input 10 characters to be written into a log entry of the log component and then the recorded information is displayed on terminal as follow.

