

Freescalé MQX Example Guide

The lwmsgq example

This client/server model shows communication and task synchronization using message passing.

Server task initializes the message queues, creates three client tasks, and then waits for a message.

After receiving a message, the task returns the message to the sender.

Client task sends a message to the server_task and then waits for a reply.

Running the example

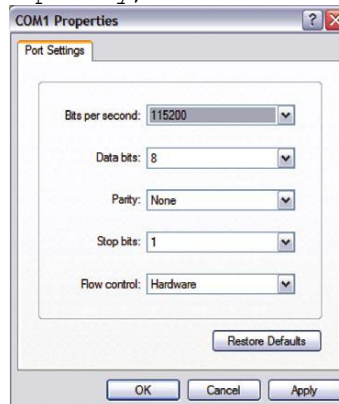
The user only needs to do compilation of MQX libraries, ksdk library and the example without any further step.

Start HyperTerminal on the PC (Start menu->Programs->Accessories->Communications).

Make a connection to the serial port that is connected to the board (usually will be COM1).



Set it for 115200 baud, no parity, 8 bits and click OK.



After running the MCU, you will see the printed message as the following picture.

```
lwmsgq - HyperTerminal
File Edit View Call Transfer Help

C
Client Task 2
Client Task 1
Client Task 0
C
B
A
Client Task 0
Client Task 1
Client Task 2
A
B
C
Client Task 1
Client Task 0
B
A
Client Task 0
Client Task 1
Client Task 2
A
B
C
Clio_

Connected 0:01:08 Auto detect 115200 8-N-1 SCROLL CAPS NUM Capture Print echo
```

Explanation of the example

The flow of the tasks is described in the next figure. There is a server task that receives all the incoming data and responds to them. There are three client tasks. Each client sends a message to the server and receives the answer back from it.

