Freescale MQX RTOS Example Guide

TFS example

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

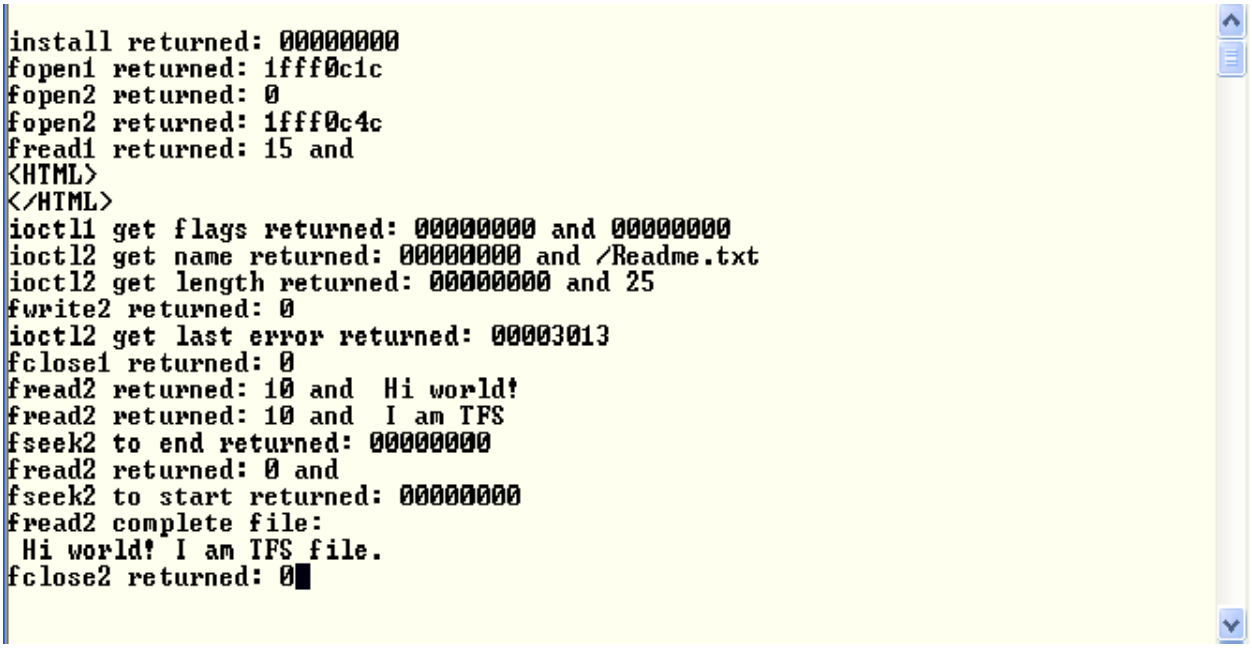
The example

The example code shows how to communicate with file system. The task performs some basic operation with the file system example open/read/write/close.

Running example

Start a terminal application on your PC and set the serial connection for 115200 baud, 8 data bits, 1 stop bit, no parity and no flow control.

Start TFS example on the target platform. After running example the result will be as the following picture



Explaining the example

The application example creates only one main task. The main task starts to initialize the trivial file system.

```
_io_tfs_install ("tfs:", tfs_data);
```

After installing, Task opens two file systems in data folder: index.html and readme.txt. Then reading the content and getting the ATRIBUTES, NAME and LENGTH of two file systems.

The task also tries to write the content of the first file system to second file system. But error code will return because disk is protected to write. The code to do that is:

- `result = fwrite(buffer, 1, 10, file2);`
- `printf ("\nfwrite2 returned: %d", result);`
- `result = ioctl(file2, IO_IOCTL_TFS_GET_LAST_ERROR, NULL);`
- `printf ("\nioctl2 get last error returned: 0x%X", result);`

Then the task closes index.html file and reads 20 first bytes of readme.txt file. After reading, Task seeks to the end of the file and tries to read the content.

Finally, Task seeks to begin of the file reads whole content and closes it.