

## Scope

This document describes how to test USB Host MSD fatfs example.

The MFS filesystem is not contained in usb stack, it could be found in SDK\_SOURCE/filesystem/mfs/examples directory .

## Preparation

### Host

A board, i.e. twrk22f120m, which is running host\_msd\_fatfs\_twrk22f120m example.

### Device

A u-disk

## Steps

Follow the steps to run the MSD fatfs demo.

1. Run the host\_msd\_fatfs\_twrk22f120m example and you will see the printed guide note.
2. Plug-in the u-disk and you will see some attach information printed out.
3. If you run the demo in bm, test result as follows:

```
*****
*                                     *
*                      FatFS DEMO                      *
*          Configuration:  LNF Enabled, Code page  =437          *
*
*****
*****
*                      DRIVER OPERATION                      *
*
*****

1. Demo function: f_mount

    Initializing logical drive 0...

    Initialization complete

...

*----- DEMO COMPLETED -----*
*****
```

4. If you run the demo in mqx, you can type string "help" to get shell command. And according to the prompt information, you can do something. For example, you can input string "dir" to get the file list of the u-disk in the current directory.
5. If you want to test throughput, you should set THROUGHPUT\_TEST\_ENABLE as (1) in file mfs\_usb.h for mqx, file msd\_diskio.h for sdk. Then run the demo the result is as follows:

```
*****
*                                     *
*                               file.dat for write and read speed                               *
*                                     *
*****
*****1 write 100M test*****
write test results: time = 247577ms  speed = 413K/s
*****1 read 100M test*****
read test results: time = 153873ms  speed = 665K/s
*****
*                                     *
*                               TEST DONE                               *
*                                     *
*****
```