CC31xx File Operations Application

Overview

This sample application demonstrates the file-operation capabilities of CC3100 device. Serial-flash is used as the storage medium. We have 2MB serial-flash and the initial 1MB is used for the filesystem.

Page, sector and block size is given below:

- Page - 256 Bytes
- Sector - 4 Kb
- Block - 64 Kb

Serial-flash transfers data over McSPI interface. Different APIs are provided for:

- Serial-flash read
- Serial-flash write
- Sector Erase
- Block Erase
- Chip Erase

Application details

This application demonstrates how to exercise the host-driver APIs for file-operations. It:

- opens an user file for **writing**
- writes "Old McDonalds" child song several times to get just below a 64KB file
- closes the user file
- opens the file again for **reading**
- reads the data and compares it with the stored buffer
- closes the user file

Note: This wiki page is only applicable for **CC3100-SDK v1.0.0** and upward releases. For documentation on older SDKs' examples, refer corresponding file in **<cc3100-sdk-installation-location>\cc3100-sdk\docs\examples**

Usage

- Connect the board to a Windows-PC and configure the terminal-program for seeing the logs - [| CC31xx_&_CC32xx_Terminal_Setting_Wiki [1]] has detailed instructions for configuring the terminal-program
- Build and launch the application
- See the self explanatory logs on the terminal-program's console.

```
Application open a file and write "Old MacDonalds" child song 36 times to get just below 64 KB size
It reopens the same file in read-only mode and reads the file contents
```

- On success, below message will be displayed on the terminal

```
File operations application - Version 1.1.0
************************************************************
Device is configured in default state
Device started as STATION
Device successfully wrote/verified the data to/on serial-flash
```

Limitations/Known Issues

None

References

[1] http://processors.wiki.ti.com/index.php/CC31xx_&_CC32xx_Terminal_Setting

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