CC32xx SDHost

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Overview

The Secure Digital Host (SD Host)controller on CC3200 provides an interface to standard SD memory cards in 1-bit transfer mode and handles the SD protocol and data packing at transmission level with minimum CPU intervention.

Application details

This application showcases the basic use case of initializing the controller to communicate with the attached card, reading and writing SD card block using the internal controller buffer via DriverLib API(s). The demo includes extracting the card capacity, capacity class and SD version information and displaying it on the UART terminal. The demo also reads out the first block from the attached card and displays in to the terminal.

Writing to SD card block is disabled by default using a macro defined in the main.c file, this is to avoid accidental corruption of card Filesystem.

Source Files briefly explained

- main.c Includes the main and DriverLib wrapper functions to initialize, read and write the attached card.
- pinmux.c Generated by Pinmux utility to mux out the SD Host controller signal to chip boundary.
- uart_if.c Implements the UART terminal.
- startup_ewarm.c Implements interrupt vector table when using IAR ewarm tool chain
- startup_css.c Implements interrupt vector table when using CC tool chain

Usage

- Setup a serial communication application (HyperTerminal/TeraTerm) with following settings. For detail info visit Terminal setup
- Port: Enumerated COM port

- **Baud rate**: 115200

- Data: 8 bit- Parity: None- Stop: 1 bit

- Flow control: None

• Connect the SD Card to the LP board as shown below

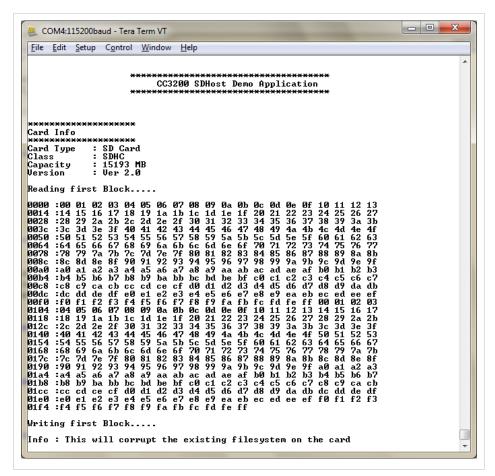
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LP Pin	SD Card Pin	Signal Name
P2.3	2	CMD
P3.2	3	GND/Vss
P1.1	4	Vcc/Vdd
P2.6	5	CLK
P2.1	6	Vss
P2.7	7	DAT0

• Set the macro definition to 1 to remove write protection

```
#define WRITE_TEST_EN (
```

- Run the reference application (Flashing the bin/IAR/CCS).
- Observe the status messages on the host over serial port to understand the sequence of operations performed by the application.



Limitations/Known Issues

None.

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