

Interfacing FlashRunner 2.0 with TMS320 devices

Protocol supported:

- UART

Optional Command List:

- Read/Dump

Additional settings:

List of additional settings:

- BYTE_SWAP → swap byte order when using BIG ENDIAN byte order in source file;

Additional parameters:

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- PWD_CONST → manually set the password for the device;
- FPLL_AUTOSET → let the driver set the maximum FPLL obtainable starting from FOSC value, ignoring the one that has been manually set.

Commands List

Memory types:

F → Flash

MASSERASE

MASSERASE <F>

This function perform a Masserase for Flash

BLANKCHECK

BLANKCHECK <F> or **BLANKCHECK** <F> <start_addr> <size>

Blankcheck command for Flash - Auto or Manual mode allowed

PROGRAM

PROGRAM <F|P> or **PROGRAM** <F> <start_addr> <size>

Program command for Flash - Auto or Manual mode allowed.

Program is also available for specified **CONSTANT** **PASSWORD**; in this case only Auto mode is allowed.

VERIFY

VERIFY <F> <R> or **VERIFY** <F> <R> <start_addr> <size>

Verify command for Flash - Auto or Manual mode allowed.

R – Normal verify with Read-Out method

READ

READ <F> <start_addr> <size>

Read function for Flash

DUMP

DUMP <F> <start_addr> <size>

Dump function for Flash

CONNECT

Connect function: Power on and entry

DISCONNECT

Disconnect function: Power off and exit

Custom Parameters Notes

There are a pair of tricky custom parameters to set inside the Database. These parameters are `DIO_BOOT_MASK` and `DIO_BOOT_MASK_VALUES`.

The first is a bitwise mask that is used to indicate if a line should be driven (1) or not (0) by the programmer. The second is another mask that specifies if the line should be driven high (1) or low (0).

This is necessary in order to manage the different configurations for SCI-A boot. Those configurations can be found in the specific device datasheet.