

Documentation for DimServer on Pretrigger-System

Stefan Schmiederer

Last Edit: 25.Oktober 2008

1 Notes

It will describe the commands which can be send to ptss (PreTriggerSlimServer).

1.1 Additional important notes

A command consists of an phrase followed by the list of arguments seperated by ":".

Example:

CCWR:3555:3

This causes the server to write the value 3 to register 3555 on the FPGA.

Remember that for multiple commands every command must end with an "\n" character. This is not possible directly through dim_did. Please use there only one command at a time.

The return format of every function internally is described below, while the client always gets a string.

The number of commands in NCMD includes the command itself.

2 Syntax

ID	COMMAND	Command Description	# of Arguments	Description	Format	Return Format
----	---------	------------------------	----------------	-------------	--------	---------------

3 Commandlist

ID	COMMAND	Cmd Descr.	# of Args	Description	Format	Return Format
1	SCSWR	Write to register via scsn bus	5	devicename deviceport slave register address value to write	string uint16 uint16 uint16 uint16	int
2	SCSRD	Read from register via scsn bus	5	devicename deviceport slave register address returned data	string uint16 uint16 uint16 uint16	int
3	SCSRST	Reset scsn device	3	devicename deviceport slave	string uint16 uint16	int
4	CCWR	Write to register of FPGA	2	register address value	uint16 uint16	int
5	CCRD	Read from FPGA	1	register address	uint16	uint32
6	CCRST	Reset scsn of FPGA	0			int
7	FEBWR	Write to register of selected FEB	2	register address value	uint16 uint16	int
8	FEBRD	Read from FEB	1	register address	uint16	uint32
9	FEBRST	Reset scsn of FEB	0			int
10	CCRM	Read many registers from FPGA	2	start address end address	uint16 uint16	list of uint32
11	FEBRM	Read many registers of FEB	2	start address end address	uint16 uint16	list of uint32
12	FEBS	select FEB	1	FEB #	int16	int
13	PXSV	programm FPGA	1	filename	string	int
14	LMUC	configure LMU LUT	1	filename	string	int
15	CBBC	configure CBB LUT	1	filename	string	int

16	JTAS	select JTAG line	1	jtag line	int16	int
17	COUR	Read counters of CC/FEB	2	device(FEB/CC) wished counter	uint16 uint16	uint32
20	NCMD	signal that multiple cmds will come	1	# of cmds	int16	int