Usefull commands for the DAQ of the TPX3 32 chips module

On arawana:

path is /localstore/TPX3/spidr3-software/Release/ not needed

spidrchipids 192.168.1.10

Gives a list of chips in the read out

There should be 32 chips with correct chipids

spidrreset 192.168.1.10

This resets the spider and the communication with the concentrators

After spidrchipids 192.168.1.10 you see a new list of chips

spidrtpxinfo 192.168.1.10 9

This will give a lot of information on the state of device nr 9 (nr 9 in read out order); e.g. the chipid and dac settings (thresholds)

Irregular numbers indicate that there is a problem with that chip.

On arawana we open two minicoms USB ports

Each USB is connected to the a SPDR. One for the SPDR connected to the TPX3 LINK0/LINK1 concentrators and one USB for the TIMESTAMP stream.

sudo minicom -D /dev/ttyUSB0 sudo minicom -D /dev/ttyUSB1

In the TIMESTAMP minicom one can give type a one-key command: x

This lists the state and connections of the SPDR

In the TPX3 minicom list the one-key commands

 h list all commands (e.g.)

 C scan the chips in the readout and gives nr chips

 Y enables the power of the chips

 Z disables the power of the chips

To get all 32 chips in the readout (if one or a few have fallen out) one gives a spidrreset 192.168.1.10 and then (minicom) C.

One has to do that several time to get them on board.

If this doesnot work ona can use (minicom) Z and (minicom) Y.

After that a spidrreset etc.