**Tutorial 10**

**Dave card**

*November 2022*

Dave card settings are used to set trigger related parameters like trigger rate and deadtime that affect datataking.

This is done by writing registers in the Dave card. The card can be accessed by following these steps:

ssh sbcpix-sr1tcc-01

DaveModuleTest

When prompted enter card address – 17

Follow the menu to read, write or view register values associated with each parameter

There are scripts that directly do this. They can be run directly from sbcpc-sr1-0x

Trigger rate (7.5 kHz here)

/det/pix/daq/current/scripts/changeRateDave.sh 8

These values correspond to rates:

3 ==> 100 kHz

5 ==> 60 kHz

6 ==> 30 kHz

7 ==> 15 kHz

8 ==> 7.5 kHz

9 ==> 3.7 kHz

10 ==> 1.8 kHz

For other parameters, the value that is to be set is directly written to the register

Simple deadtime (4 here)

/det/pix/daq/current/scripts/changeSimpleDTDave.sh 4

Complex deadtime level (15 here)

/det/pix/daq/current/scripts/changeComplexLevelDave.sh 15

Complex deadtime rate (400 here)

/det/pix/daq/current/scripts/changeComplexRateDave.sh 400