

INTRODUCTION AND KEK TEST SETUP

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Topics in this session



Test bench at KEK

TOP B4 setup at B4

TOP group let us use the B4 setup at KEK for readout test Martin Bessner –san is a contact person.



Available input sources at the test bench



- ➤ 4 data source for new readout boards are available
 - COPPER HSLB x 4 : can be increased.
 - TOP FEE x 4 : Requested to demonstrate readout
 - CDC FEE x 1
 - SVD FEE x 1

Severs and modules at B4



Please ask <u>bessner@hawaii.edu</u> to create your account on topslc02 and cpr3002(vme).

How to turn on TOP FEEs

How to turn on top FEEs. (In the case of power-cycling TOP LV)

1. Power-cycling TOP LV

topslc02 \$ sudo /usr/local/bin/apcctl lowvol-b4top offon

2. Download firmware via FTSW

Topslc02 \$ ~copper/essential_scripts/prepare_all_boardstacks.sh

3. Configuration via COPPER b2link

Topslc02 \$ ~copper/essential_scripts/configure_one_boardstack.sh 0

Topslc02 \$ ~copper/essential_scripts/configure_one_boardstack.sh 1

Topslc02 \$ ~copper/essential_scripts/configure_one_boardstack.sh 2

Topslc02 \$ ~copper/essential_scripts/configure_one_boardstack.sh 3

So, currently unless one can configure the TOP FEEs with their own SLC system, TOP cannot be used. Martin said ;

I talked to Kurtis, we have three options concerning configuration:

- * Put the fibers into Copper, configure, then swap the fibers with the new device to test
- * Establish B2L with the new device, then make the configuration scripts run there

* Compile a firmware version that can send some dummy data without any configuration

But anyway, in the demo, we need to perform configuration via belle2link.