# **Devboard Setup at SLAC**

### Test Setup

Hybrid power: 2.5 V to AVDD and DVDD, 1.25 V to V125.

Devboard power: 5.5V

Bias

## Operation

### Starting trackerGui

The trackerGui can be started by issuing the following commands from a terminal. onlineGui is optional.

cd /ul/software/daq

- source setup\_env.csh
- ./bin/onlineGui &
- ./bin/trackerGui

Tracker Control (on darkp	photon.site)
System Commands Status Configuration	Calibration
State: System Configured From calibration_con System is is in run state 'Stopped' 5 Out Of 5 Apvs Are Synced!	ñg.xml.
HardReset SoftReset	RefreshState
Set Defaults Load Settings	Save Settings
Browse Open	Close
Run Control	
Run Kate: 100Hz	
Bun State: Stanpad	
100%	
Counters	
Register Rx: 1118 Ti	meout: 16
Data Rx: 19862 - 0 Hz	Error: 0
Data File: 0 - 0 Hz Unex	pected: 0
Reset Counters	

#### Taking a Calibration Run

#### A calibration run can be taken as follows

```
source /ul/software/daq/setup_env.csh
~/hybrid/scripts/run_cal.py -t <hybrid type> -c <cal type> <basename>
```

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### **Quality Assurance Tests**

#### **Running Baseline Analysis**

Running the baseline analysis can be done as follows. Normally this would be run on the \_baseline\_dtrig.bin file.

~/hybrid/bin/meeg\_baseline -t <hybrid type> <filename>

<hybrid type> is define the same way as for run\_cal.py.

#### Running Calibration Analysis

After a calibration run for each calibration group has been taken (see Taking a calibration run), the analysis of the files can be done as follows, where <filenames> is a list of all files with calibration pulses. You can use something like "basename\_cal\_g?\_d?.bin" to automatically list all the files you want.

~/hybrid/bin/meeg\_tp -t <hybrid type> <filenames>

By default this just makes text files as output. Options -r and -f make plots.