## Main Login:

eurica

erippa15

## Other Diagnostics for operators

### LN Camera @

<http://172.27.230.121/CgiStart?page=Single&Language=0>

caiten/ribf2008

### Google Address:

Hourly emails sent to [Briken.neutron@gmail.com](mailto:Briken.neutron@gmail.com) pwd: (Br1k3nN3utr0n2015)

Those who wish to be alerted can forward from here to their email.

### Pixie @ brikenhv:

ssh -X pixie16@brikenhv.ribfdaq (if this fails contact Nathan[1] or Baba-san)

briken2015

# Operational Guide:

## This manual assumes knowledge of ‘screen’ and ‘vi(m)’.

#### If you are unfamiliar, please type ‘man screen’ and ‘man vim’ or look for these on google

Connect to the computer from a eurica console @ B3:

* ssh -X pixie16@brikenhv.ribfdaq (&psw)

## Browser mpod visualizer:

The visualiser located in the local IP accessible webpage 192.168.13.239 will show the implemented changes. Open webpage first.

* firefox &
* Type local,static IP 192.168.13.239 in the address bar (this number should not change!!)

It is helpful occasionally to look at the status bar for a ‘refresh’ symbol or a ‘stopped’ symbol after the url on the browser. If the red stopped symbol appears press it to refresh the webpage. Or, if you don’t see immediate action from a change you made, press the refresh symbol.

## Screen Session:

If not attached first attach to the session.

* screen -x

If there is no screen after a restart, from /home/pixie16

* ./brikenhv.sh
* screen -x

The following configuration should be in place (access via ‘ ctrl-a “ ‘ )

0. config

1. kelvin-u3
2. kelvin-log
3. kelvin-read
4. hvmon
5. hvmon-read
6. other

If any one of the following is not running and you wish it to do so. \*\*\*

screen 0 (‘ctrl+a 0’)

* edit (with ‘vim hvmon.conf’) or copy a correct hvmon.’name’,conf (i.e. hvmon.2017All.conf) to hvmon.conf.
* save (‘ :x ‘)
* kelvin.conf should remain the same unless a clover or RTD is removed.

screen 1 (‘ctrl+a 1’)

* ./kelvin-u3

screen 2 (‘ctrl+a 2’)

* ./kelvin-log

screen 3

* ./kelvin-read

screen 4

* ./hvmon

screen 5

* ./hvmon-read

\*\*\* IMPORTANT: If you only turn on/off hvmon. It may not find the shared memory segment for kelvin. In which case hvmon-read shows:

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Temps (0,1,2) =(C,K,F):

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Instead of values ~80’K’

In this case, follow the instructions below to turn off hvmon and kelvin, then restart in the above order

\*\*\*

If any program is running and you wish it not to:

For kelvin:

screen 3

* ./kelvin-read (if not already running)
* 100

For hvmon:

screen 5

* ./hvmon-read (if not already running)
* 100

You may now alter any conf file (if necessary) and restart (likely all\*\*\*) any needed programs.

If any detector is in need of a temporary change of parameter or in case of emergency(on/ off)

screen 5

* hvmon-read (if not already running)

Gives:

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Global | Channels | Status

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1 - Status | 11 - Clone channel |

2 - Force read | 12 - |

3 - Force read Temps | 13 - |

4 - All HV on | 14 - |

5 - All HV off | 15 - |

6 - Save conf file | 16 - Alter parameters |

7 - | 17 - Read from file |

8 - On list | 18 - Reset All Status' |

9 - Off list | 19 - Print Configure |

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This menu is presumed to be intuitive.

If any action is performed here and the mpod is unresponsive.

* ctrl+a 5
* 100 (to end all hvmon)

If you see ‘Alarm Clock’ or other error message:

* ctrl+a 4
* enter

You may see a “Segmentation fault’

In which case restart (\*\*\*) programs as above.

You can always check if a program is already running and may conflict by using

* ps -A | grep kelvin

or

* ps -A |grep hvmon

If you find the returned list,

* kill ‘pid’

Even still:

‘Never type something into a computer if you do not know what it does.’ - Robert Varner

#### Alternative Screen Navigation

you can also use

* ctrl+a n

to proceed to the ‘next’ screen and

* ctrl+a p

to proceed to the previous

or:

* crtl+a “

to access the list of screens, navigate with ‘up’ and ‘down’ and enter to select.

The important locations are as follows:

* Path for conf file: **/home/pixie16/DAQ\_BRIKEN/include/hvmon.conf**
* Path for temperature monitor: **/home/pixie16/DAQ\_BRIKEN/kelvin/kelvin-u3**
* Path for temperature logging**: /home/pixie16/DAQ\_BRIKEN/kelvin/kelvin-log**
* Path for temperature log control**: /home/pixie16/DAQ\_BRIKEN/kelvin/kelvin-read**
* Path for hvmon**: /home/pixie16/DAQ\_BRIKEN/hv-mpod/hvmon**
* Path for hvmon control: **/home/pixie16/DAQ\_BRIKEN/hv-mpod/hvmon-read**

**This is also the order in which the programs should be run at first.**

1] The method is essentially to enter the vault connect a monitor and keyboard to the pc via DVI and usb respectively. If the computer is on, open a terminal and type ‘ifconfig’. If it was off, turn it on and try again.