IRIS DAQ and Online Monitoring

December 2018

1   Start the DAQ

This section describes how to start the DAQ, e.g. after a power cut.

1. Turn on the VME crates.

2. Turn on **iris00** (green button on the back of the computer).

3. Log in (user: `iris`, password: `e1187_daq`).

4. Open a terminal.

5. Run the command `start_daq.sh`

6. In a new terminal, run `ssh lxiris01` until a connection to **lxiris01** is established.

7. Run `ssh lxiris02` from the same terminal. Once a connection to **lxiris02** has been established, close the terminal.

8. Start firefox. If you get an error message about firefox already running, run `unlock_firefox.sh` from command line.

9. The iris status page should come up as the home page. If not, go to `https://iris00.triumf.ca`. Log in (user: `midas`, password: `midas`).

10. Click on `Programs`. Start the programs listed on that page one by one.

11. Go back to the status page. Click reset if there is an alarm line.

2   Set up Online Monitoring

Assumes that the DAQ is up and running.

1. Go to **iris00** or log in remotely: `ssh -Y iris@iris00.triumf.ca`

2. Check for screen sessions that are already running anaIris: `/current/screenls.bash`

3. (a) If the screen session exists, re-attach with
      `screen -x anaIris` and check if anaIris is running. If it isn't go to step 4, otherwise you can skip it.
   (b) If the screen session doesn't exist, create it using
      `screen -S anaIris`

4. Start anaIris:
   `cd  /current/anaIris`
   `bin/anaIris -P9093`

5. On the iris status page, click on "Programs". Make sure a program called "anaIris" is in the list.

6. Start roody: On the computer you want to use for monitoring, log in remotely to **iris00**: `ssh -Y iris@iris00.triumf.ca` Start roody using `roody -Plocalhost:9093`

7. Start the SpectrumViewer. On the iris status page, click on "SpectrumViewer". A new tab will open. Click on "IC", then "ADC" and select "ICCh15ADC" from the drop-down menu to display the IC spectrum. To also add the SSB, select "ICCh31ADC" from the same menu.