Using the MOLLERADC with CODA

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1 Using the MOLLERADC with CODA

This guide describes the installation, configuration, and readout of the MOLLERADC with CODA.

1.1 Firmware and OS Installation

1.2 Software Configuration

1.2.1 CODA EXPID

- the CODA environment variable `EXPID` is defined in

  `/home/coda/coda_setup.sh`

the `coda_roc` will need to be restarted if it is changed

1.2.2 CODA ROC name

- by default, the name used for the MOLLERADC CODA ROC component is it's hostname. For example,

  ```
  hostname = damolleradc0.jlab.org
  CODA ROC name = damolleradc0
  ```

1.2.3 RunType Configuration files

1. Sample Mode

   `/home/coda/cfg/molleradc-stream.cfg`

2. TI Triggered

   `/home/coda/cfg/molleradc.cfg`

1.2.4 Readout Lists

1. Sample Mode

   `/home/coda/rol/molleradc_stream_list.so`

2. TI Triggered

   `/home/coda/rol/molleradc_list.so`

1.2.5 Restart / Reboot

1. `coda_roc`
   - restart with systemd

     ```
     sudo systemctl restart coda_roc
     ```

   - restart with `killall` command

     ```
     killall -9 coda_roc
     ```

   - restart with `Control-X` in procServ terminal
     - connect with
       `connectRoc.sh`
2. soft reboot

   ```
   sudo reboot
   ```

3. front panel TTL signal

1.3 Readout

2 MOLLERADC Software

2.1 Directory Structure

2.2 MOLLERADC Library

2.3 moller Service

2.4 CODA ROC

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3.1 org-file

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