

# CDet Coda Instructions

For CDet standalone data runs, we use adaq2:8. If on a halla CH computer, you can get here by

- `ssh adaq@adaq2`
- `vncviewer :8`

If you are using personal laptop, you will first have to do:

- `ssh -L5908:localhost:24555 jlabusername@hallgw.jlab.org`
- input pin+2fac
- `ssh -L24555:localhost:5908 adaq@adaq2`
- pw: 12daq:CODA3
- open Tiger VNC and connect, make sure localhost number is 5908
- vnc pw is same as ssh pw for adaq2

The RC Gui should be open and ready to go. If it isn't, follow the steps below to start a run.

## 1. Open RC Gui

- Find the folder on homescreen "SBS\_coda\_scripts"
- Click "CODA RunControl"
- The RC Gui should now open.

## 2. Connect and configure the run

- Double check that the configuration is CDet-standalone. This can be changed by clicking "Configurations" and selecting CDet-standalone from the menu that appears
- On the top menu bar of the RC Gui, click "control" then "connect".
- The run needs to have CODA ROC, PEB, and ER started and downloaded. CODA ROC should be started already, but if not, the instructions are below. To verify they are already started click the "Download" Icon in the icon list below the top menu bar. It should be the second one.
- In case these are not downloaded, you will need to start them as instructed here:
  - i. Open three terminals, in two of them, `ssh sbs-onl@adaqeb2`. In the last, `ssh sbs-onl@sbsvme27`

- ii. In the first adaqeb2 terminal enter the command `coda_emu_er ERCDet`
- iii. In the second adaqeb2 terminal enter the command `coda_emu_peb PEBCDet`
- iv. In the sbsvme27 terminal enter `coda_roc -I -name CdetROC62` (After this command, if it doesn't stop sending packets it may already be opened on another computer, close the terminal and carry on with the run)
- v. If there are still issues with `coda_roc`, contact Alex for help
  - Now the download should work properly. Click the “Prestart” Icon next to “Download”. Make note of the run number.
- 3. Start the run by clicking the “Start” Icon
- 4. End run by clicking the “End” Icon

The runs data files should be stored in  
 /chafs2/work1/sbs/cdet/raw .

## Extra Information

When running CDet standalone, one may wish to change settings such as the window and latency. To do so, you must edit the “CDet\_list.c” script.

- `ssh sbs-onl@sbsvme27`
- `cd rol`
- `emacs -nw CDet_list.c`

Scroll through the file until you find window and latency settings and change them as desired. The latency maxes at 255.

After editing, type “make” so CODA knows about the changes.