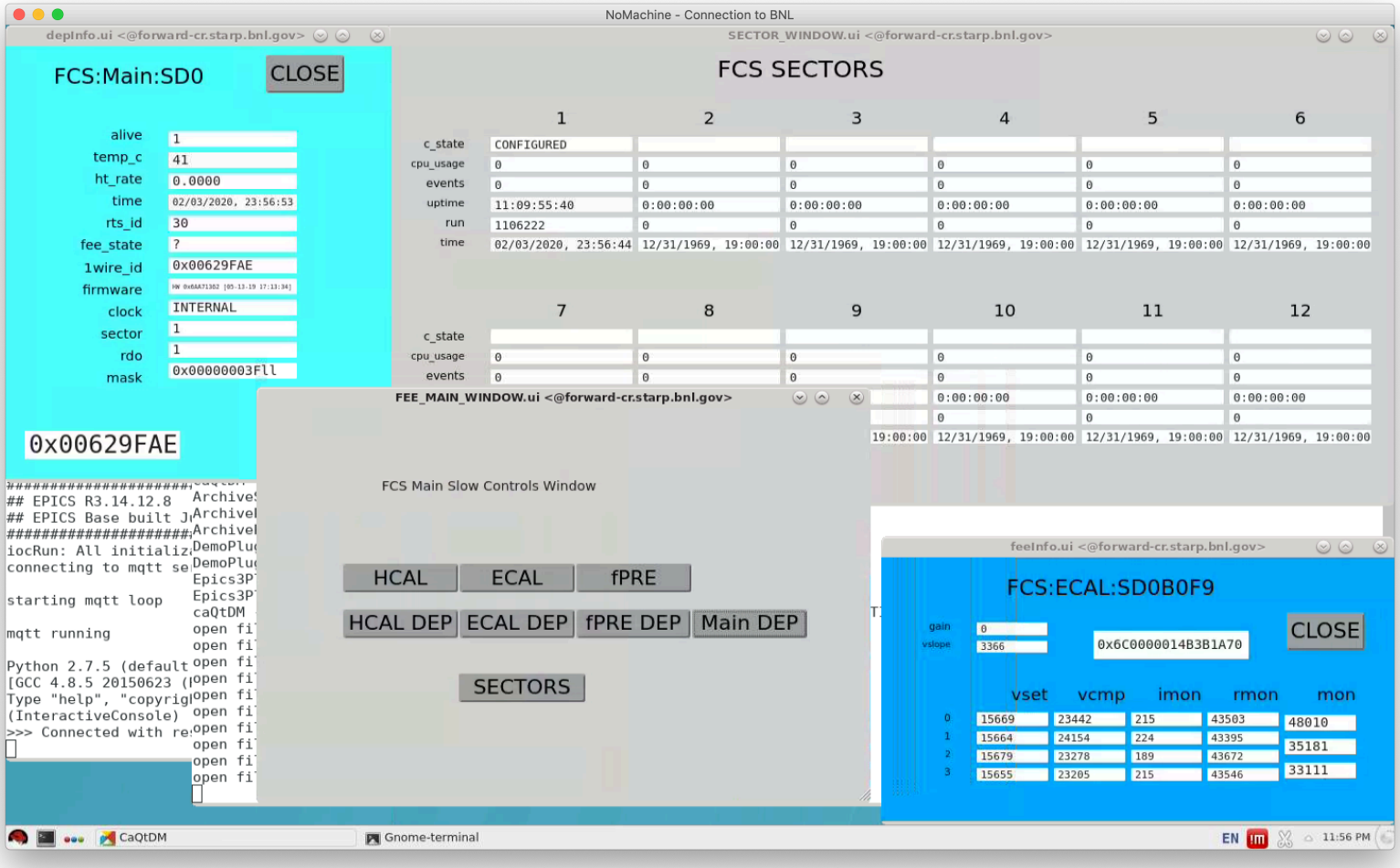
FCS Slow Controls

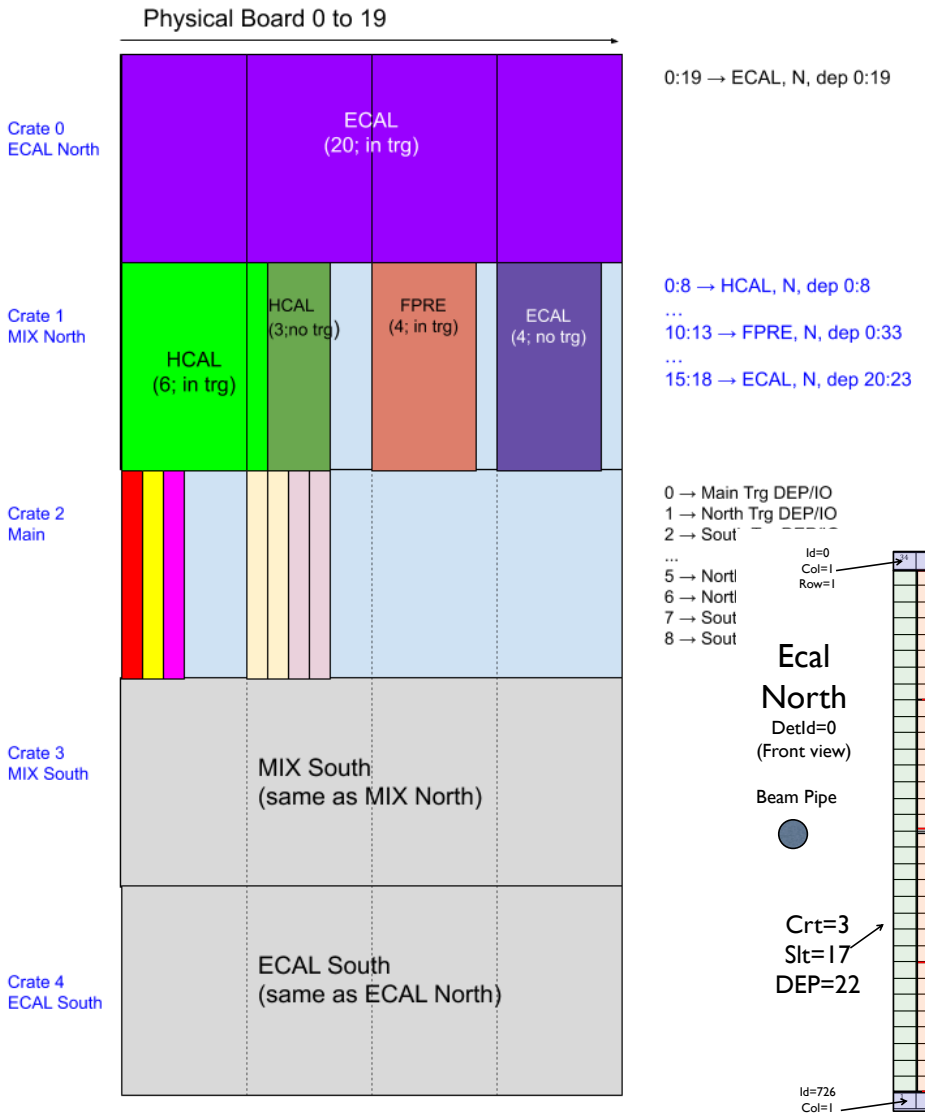
Status Feb 2020

Communication Paths, Display

- MQTT Messages
- Update from Log Files
- Display needs
  - Physical layout
  - Better summary info



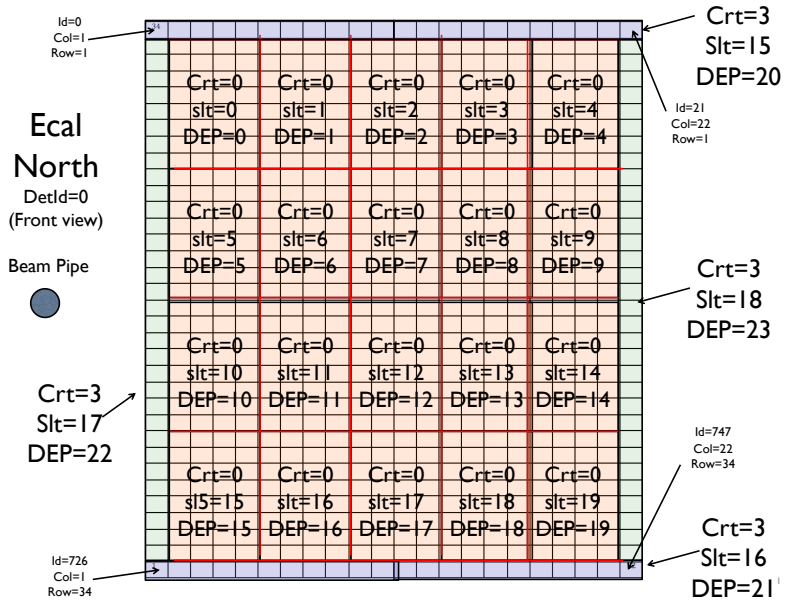
Logical and Physical Maps, config files



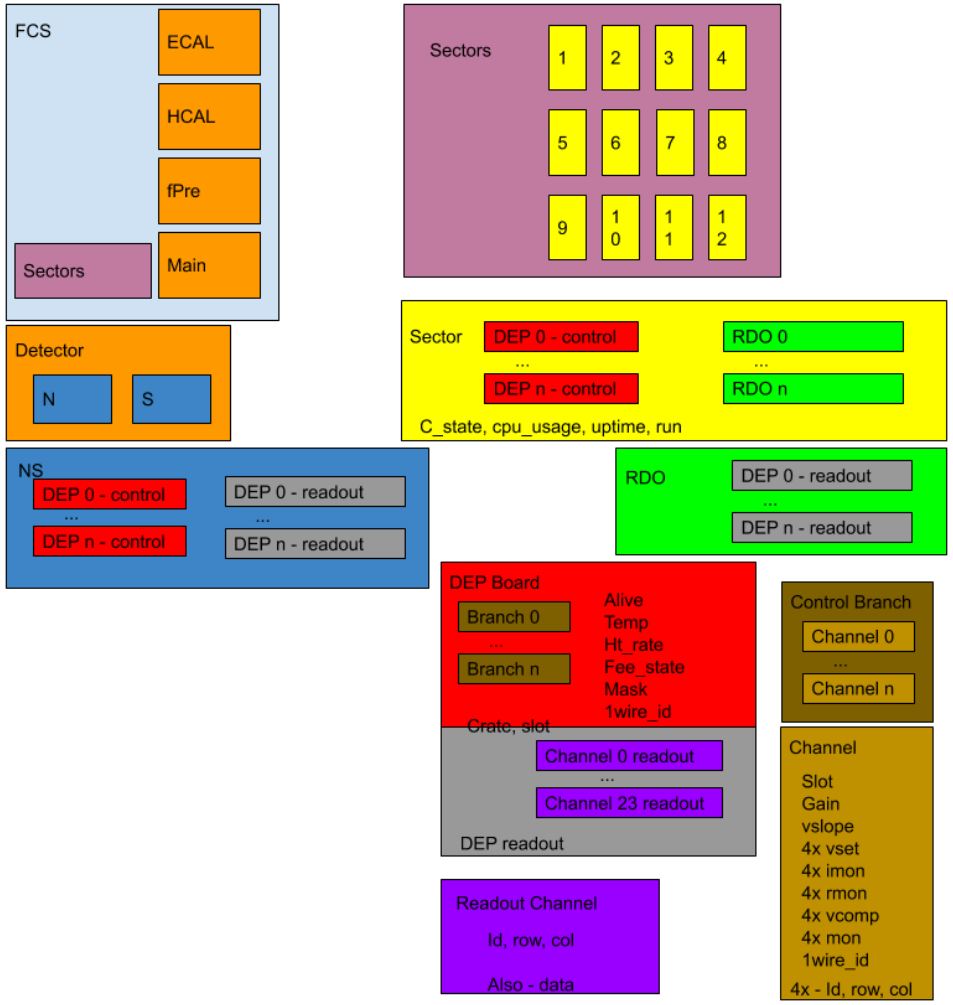
0:19 → ECAL, N, dep 0:19

0:8 → HCAL, N, dep 0:8
…
10:13 → FPRE, N, dep 0:33
…
15:18 → ECAL, N, dep 20:23

0 → Main Trg DEP/IO
1 → North Trg DEP/IO
2 → Sout
…
5 → Nortl
6 → Nortl
7 → Sout
8 → Sout



Logical associations



FCS Slow Controls To Do

1. Configuration/calibration/map files
   - Load, check, convert case etc. for ~10 different files
   - Translate human readable voltage, gain to bits for FEE boards
2. Display Layout
3. Epics Alarm Levels, File Errors, Stale MQTT Update
4. Wiener crate control
   - Simple driver provided by Creighton group
   - Need to determine database/config file setup
5. Crate Power Switch – low priority currently

FST Slow Controls

- from Zhenyu Ye
  - Currently focused on prototype
  - Will start work on FST slow controls ~May 2020
  - UIC postdoc, to be selected