# DAQ memo

## Friday meeting

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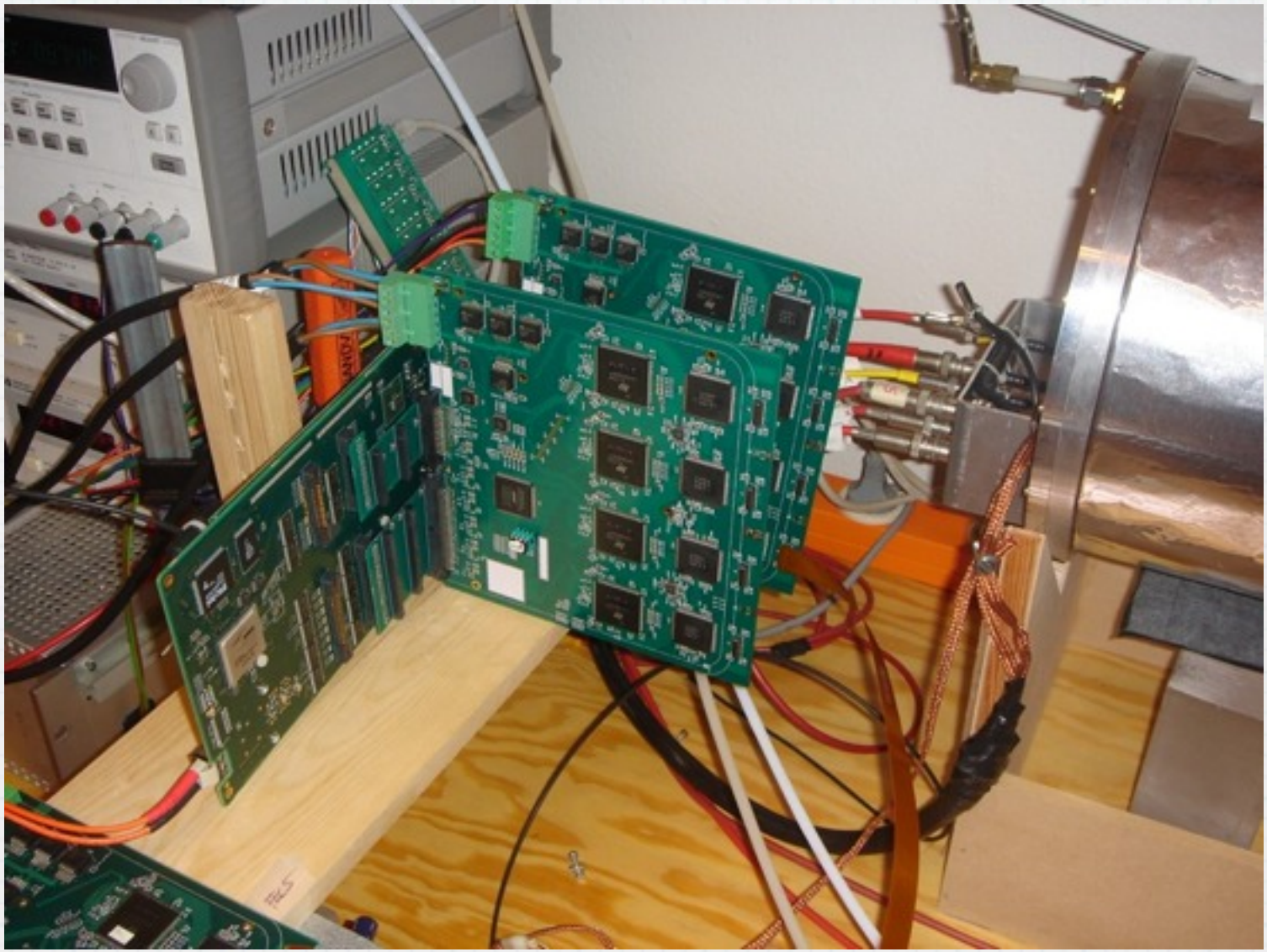
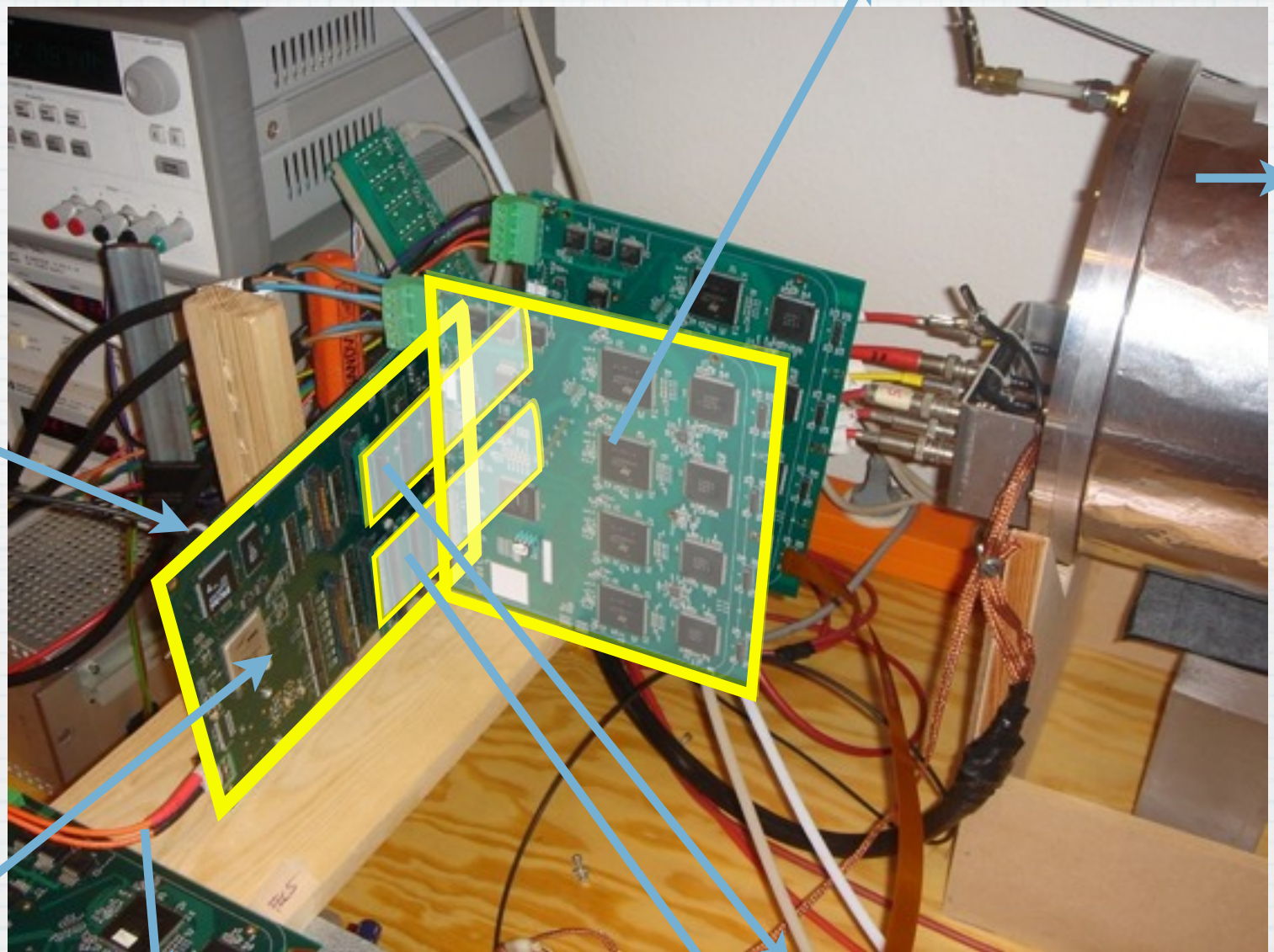
Jul. 17th 2009

# Overview

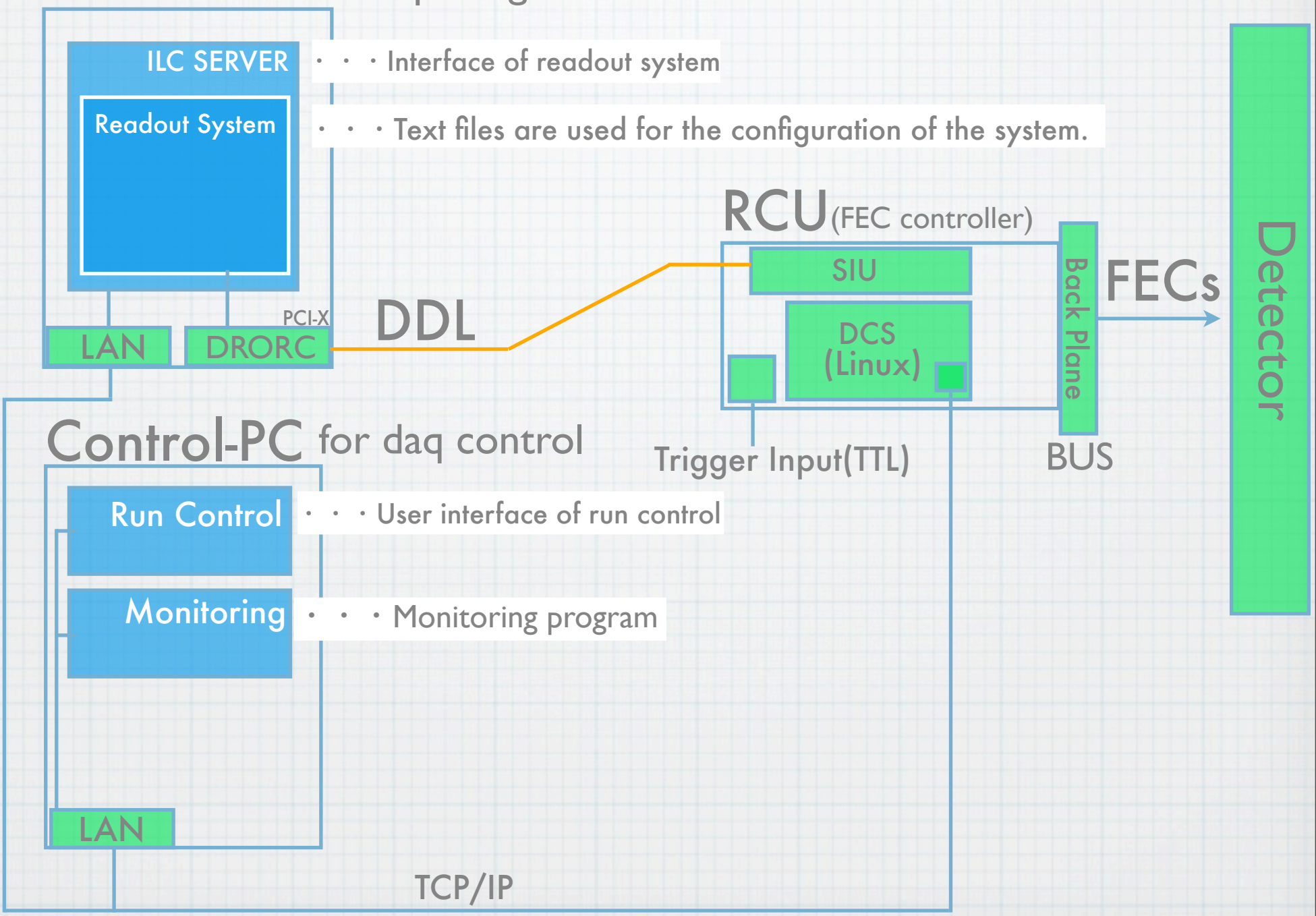
## Hardware setup



# Overview


FEC
ALTRO chip × 8 (16ch/chip)
TPC
Trigger Input
RCU
DDL (Optical Fiber)
Back Plane(BUS line)

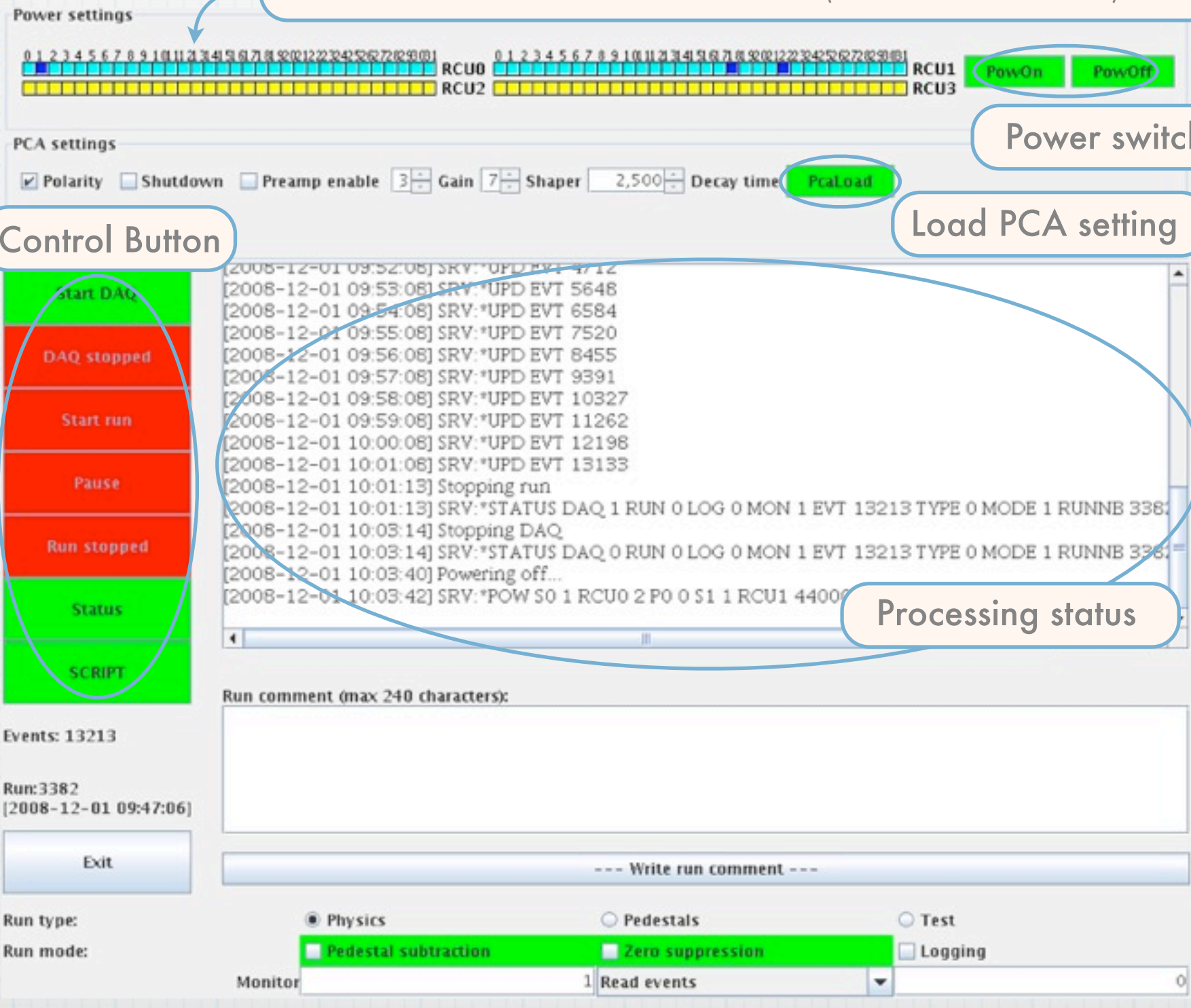
# Overview Software side



# DAQ interface

showing connection status of FECs

Need to configure with /misc/ilcdaq/config-v4.0/rcu-<#>.cfg
(RCU.POWER and RCU.READOUT)




Power switch of FEC

Load PCA setting

Control Button

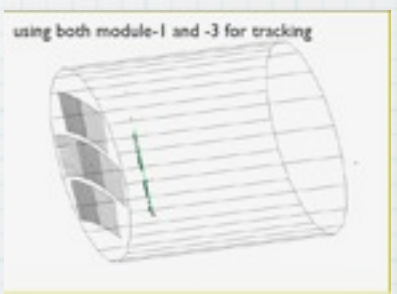
Processing status

# Data Analysis

We used temporary analysis program(non Marlin-TPC).

This is composed of ...

- unpacker ------ To make ROOT files from raw data
- hitmaker ------ To reconstruct hit clusters for each rows
- trackmaker ------ To reconstruct tracks from hit clusters
  (including Kalman Filter which is based on ROOT)
- gui ------ Event display




We can easily get measurement information from unpacked data.

e.g. RCU ID, Channel ID, rise time, ...