MINOS+ Status Report

Donatella Torretta

All Experimenters' Meetings

October 27 , 2014

Near Detector

DAQ news

- Taking data again! Thanks AD and all involved!
- DAQ is up and running fine

Detector news

- The cleaning of the ND electronics was finished on Friday, Oct 17 !
- New racks filters arrived today and we'll be installing them in the racks asap
- Two hot channels and two dead channels: Minders were replaced this morning
- Another Minder (4-13-3) shows a strange behavior oscillating between being read out or not. Attempts to fix this issue had not yet been successful.

Far Detector

DAQ news

- DAQ is up and running well
- Investigating occasional frame alignment timing drifts in the ROP timing messages seen over the weekend
  - Problem comes and goes, so is difficult to debug

Electronics/Detector news

- Crew is investigating some HV issues in HV MainFrame 4
- NO other hardware issues known

ND/FD Shutdown Work status

- Most done. A few pending issues are being addressed.

- Last RIO3
  - Planning to replace the last RIO3 VME CPU in the ND timing crate with a Motorola 5500
  - The 5500 draws more power than the current 110VAC Wiener PS can supply so we need to swap in a 208VAC Wiener PS
  - Electrical work was required to install an extra 208 electrical outlet to the power distribution above the rack
  - Wrong outlet was installed on Friday but has been fixed this morning.

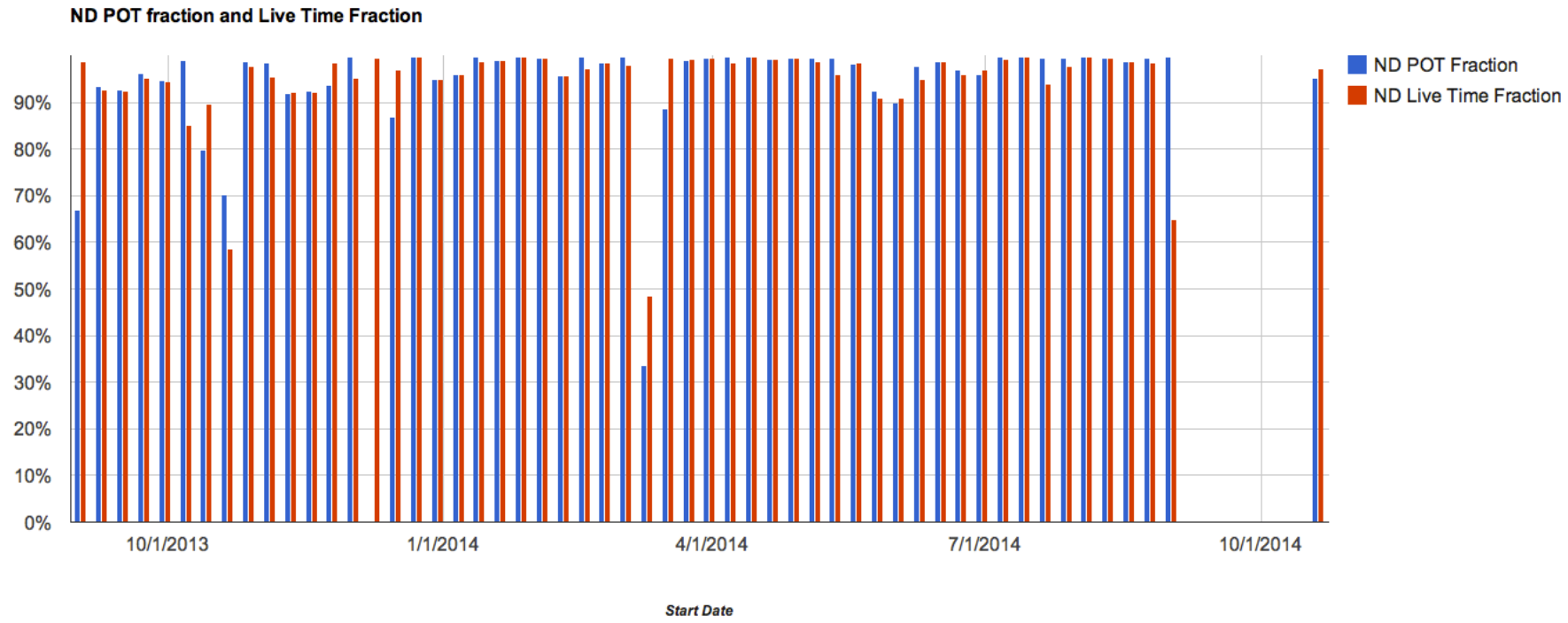
- Cooling issues in new DAQ rack
  - Removed spare PCs from rack
  - Spaced the three production servers apart in rack
  - Mounted PDUs & other equipment toward the front of the rack
  - Installed big fan pack to move air around
  - Reached a stable running condition with avg. computer temperatures of 30C
  - Will probably add one spare computer soon

ND/FD Shutdown Work status

- Ran out of time to install ACnet independent new CAMAC crate for VME crate resets
  - ACnet reset sometimes fails when a rogue ACnet server (on A/D) side is connected
  - Will do this (work) at the next opportunity

MINOS+ Status

		Near Detector		Far Detector	
Start Date/Time	**End Date/Time**	**POT Fraction**	**Live Time Fraction**	**POT Fraction**	**Live Time Fraction**
10/20/14 00:00:00	10/27/14 00:00:00	95.1%	97.2%	98.1%	99.8%


ND POT fraction and Live Time Fraction
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
10/1/2013
1/1/2014
4/1/2014
7/1/2014
10/1/2014
Start Date
ND POT Fraction
ND Live Time Fraction

FD POT Fraction and Live Time Fraction
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
10/1/2013
1/1/2014
4/1/2014
7/1/2014
10/1/2014
Start Date
FD POT Fraction
FD Live Time Fraction

ROC-West

- Fully operational computers
- EventDisplay is the last bit of software that needs to be ported to SLF6
- Started regular shifts on Saturday Morning