MINOS+ Status Report

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All Experimenters' Meetings

July 28 , 2014

Near Detector

Excellent running for the past week

- Power glitch at 3:36 am on Sunday morning took down:
  - DAQ & DCS computers
  - LCW and Booster Pumps
  - ND Magnet
  - Three Electronics Racks
- All was restored and DAQ restarted by 11:47, just 20 minutes before the beam returned
- No data was lost

- Later in the evening, found two full Masters (16 Minders) with high pedestals : recalibrating did not help
- Will try power cycling the master crate at the next beam downtime

Far Detector

Excellent running for the past week

- CI special run taken during Tuesday's beam downtime for Booster Cavity replacement
- NO other hardware or DAQ issues

ND/FD general

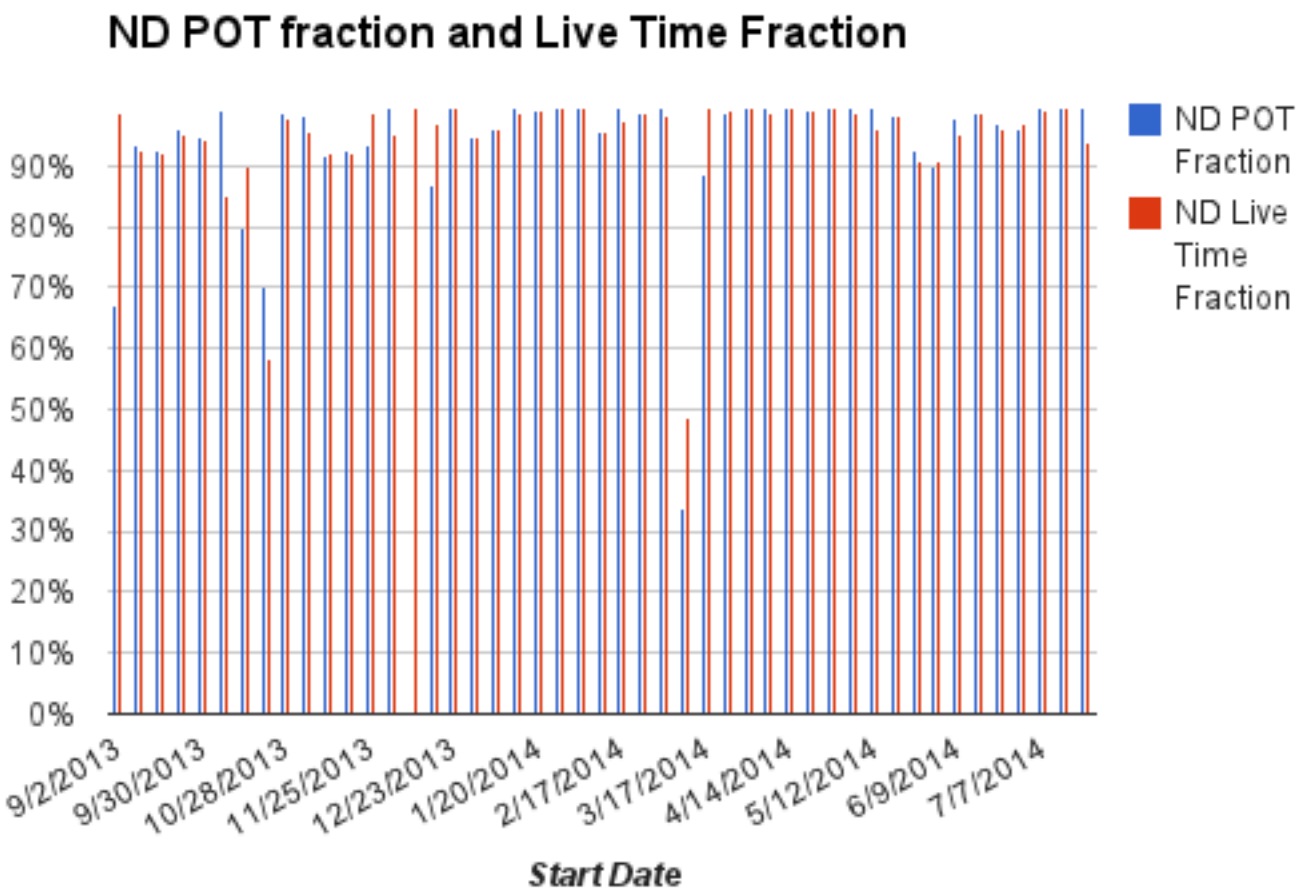
- Performed a Network Isolation test for both ND and FD during last week's Booster cavity replacement.
- Tried on Tuesday and found some incorrect kerberos configuration
- Fixed and retried on Wednesday, first at ND and then FD.
- We were able to keep taking data, write files on the local disks and monitor the detectors while disconnected from the outside world.
- All worked fine for us
- MINERvA (that shares the same Network switch) saw some issues that are under investigation

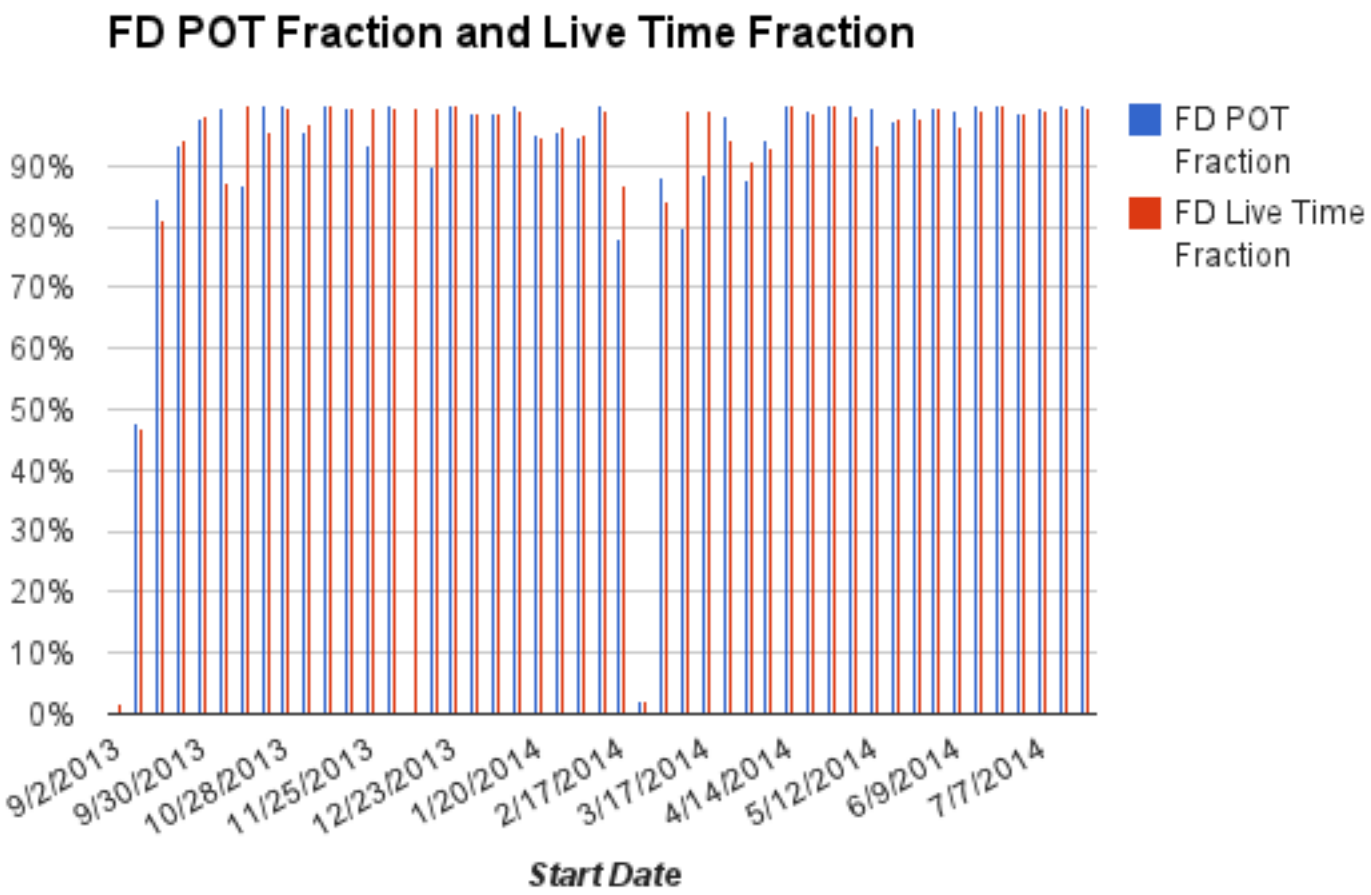
MINOS+ Status

		Near Detector		Far Detector	
Start Date/Time	**End Date/Time**	**POT Fraction**	**Live Time Fraction**	**POT Fraction**	**Live Time Fraction**
6/2/14 00:00:00	6/9/14 00:00:00	90%	91%	99.6%	99.6%
6/9/14 00:00:00	6/16/14 00:00:00	97.7%	95%	99.3%	96.7%
6/16/14 00:00:00	6/23/14 00:00:00	98.8%	98.7%	99.8%	99.3%
6/23/14 00:00:00	6/30/14 00:00:00	97%	96%	99.9%	99.9%
6/30/14 00:00:00	7/07/14 00:00:00	96%	97%	98.8%	98.9%
7/07/14 00:00:00	7/14/14 00:00:00	99.7%	99.3%	99.5%	99.3%
7/14/14 00:00:00	7/21/14 00:00:00	99.7%	99.7%	99.8%	99.5%
7/21/14 00:00:00	**7/28/14 00:00:00**	**99.5%**	**94%(*)**	**99.9%**	**99.6%**

(*) A few hours of BField are missing in our DB due to some issues connecting to ACNET.

Experts are working on recovering the data and fill the gaps in the affected DB table.


ND POT fraction and Live Time Fraction
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
9/2/2013
9/30/2013
10/28/2013
11/25/2013
12/23/2013
1/20/2014
2/17/2014
3/17/2014
4/14/2014
5/12/2014
6/9/2014
7/7/2014
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%
9/2/2013
9/30/2013
10/28/2013
11/25/2013
12/23/2013
1/20/2014
2/17/2014
3/17/2014
4/14/2014
5/12/2014
6/9/2014
7/7/2014
Start Date
FD POT Fraction
FD Live Time Fraction