

MINOS+ Status Report



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All Experimenters' Meetings
February 2, 2015



Near Detector



DAQ news

- DAQ has been running well this past week
- Cooling issues in new DAQ rack resolved
 - Running well with door closed
 - Added hot spare DCS computer on bottom
 - Temp in rack increased two degC ; alarm will go off at 42 degC



Electronics/Detector news

- Cold channel 7-16-1-0 remains
 - Swapped Minder a few times
 - Need more investigation but is a minor problem
- Hot channel 5-9-4-13
 - We'll swap the Minder board at the next opportunity
 - Single bad channels are masked in DQ and offline



Far Detector



DAQ news



- DAQ has been running well this past week
- One crash at 15:40 pm on Thursday afternoon addressed by the Soudan crew:
 - Up and running again in about 10 minutes
 - Corrupt data packet between ROP 2 and BRP

Electronics/Detector news

- One intermittent CI low gain channel
- CI Special runs have been taken during occasional beam downtimes
- Replace LeCroy MF 6 controller card because voltages were off ~10-13 volts from nominal values



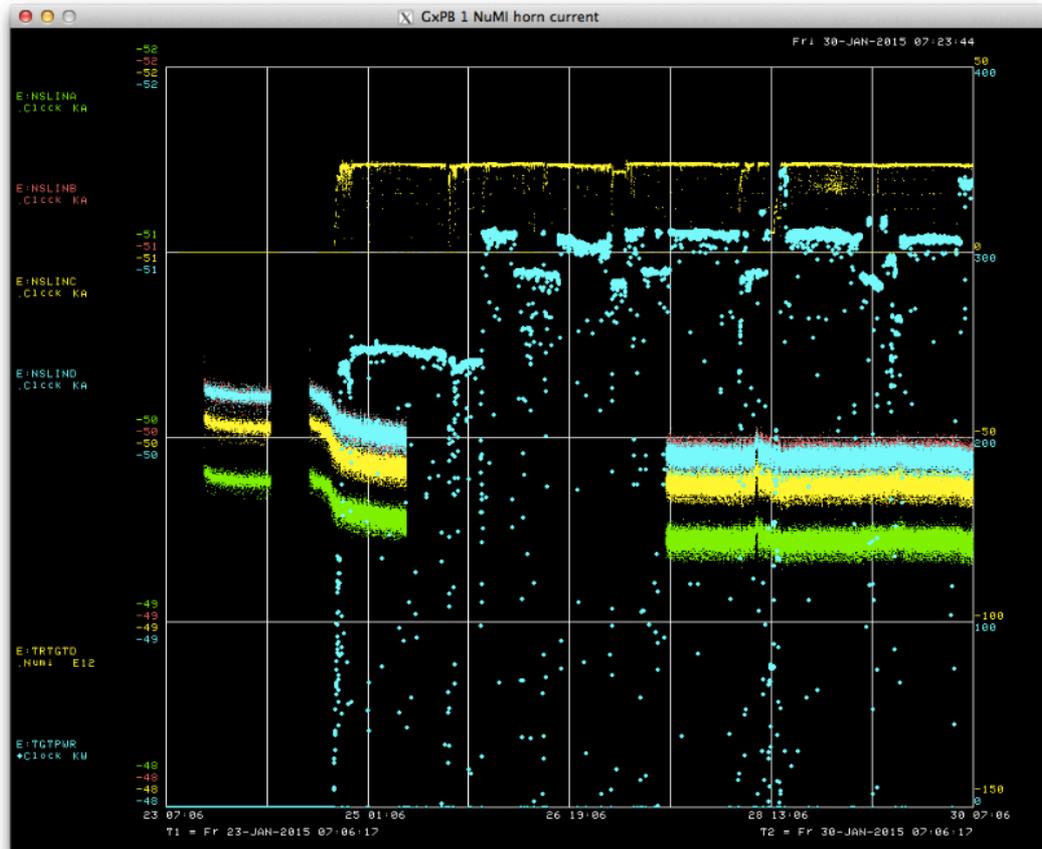
ACnet issues Sunday Jan 25- Tuesday 28, 2015



- On Sunday morning there was a glitch in the clock reading of the horn power supply front end NUMIHS (that reads out the the four Horn Current Strip Lines devices (E:NSLINA,B,C,D))
- These values are used to calculate the neutrino flux: missing these values causes our data to be flagged BAD
- Around 9:15 on Sunday this front end was rebooted but the connection with the NTP server that provides the timestamps was broken, leading to corrupted timestamps in 2036 !
- The AD datalogger program rejects timestamps in the future, so **the data with timestamp in the future has NOT been logged**
- The timestamp problem was fixed on Tuesday Jan 28, ~ 15:17 pm
- All as been OK since



ACnet issues when beam returned on 1/24/2015



- Plot courtesy of Steve Hahn
- Data is missing in ACnet DB after Sunday's morning front end reboot up to Tuesday afternoon (snippet below is for device E:NSLINB):

Sun	Jan	25	09:13:00.662	-49.97680664
Sun	Jan	25	09:13:02.328	-49.99511719
Sun	Jan	25	09:13:03.994	-49.9621582
Sun	Jan	25	09:13:11.526	-49.98779297
Sun	Jan	25	09:13:13.192	-49.99145508
Sun	Jan	25	09:13:14.858	-50.00244141
Sun	Jan	25	09:13:16.525	-49.99145508
Tue	Jan	27	15:16:32.765	-49.92919922
Tue	Jan	27	15:16:34.099	-49.93652344
Tue	Jan	27	15:16:35.433	-49.91088867
Tue	Jan	27	15:16:36.766	-49.92553711
Tue	Jan	27	15:16:39.967	-49.94384766
Tue	Jan	27	15:16:41.301	-49.89990234

- Met today with IFBeam DB group and J. Patrick from AD to investigate how to recover the missing data

From top: E:TGFTGD, E:TGTPWR, E:NSLIN(A,B,C,D)



MINOS+ Status



Start Date/Time	End Date/Time	Near Detector		Far Detector	
		POT Fraction	Live Time Fraction	POT Fraction	Live Time Fraction
10/20/2014 00:00:00	10/27/2014 00:00:00	95.1%	97.2%	98.1%	99.8%
10/27/2014 00:00:00	11/03/2014 00:00:00	99.5%	97.8%	87.4%	81.4%
11/03/2014 00:00:00	11/10/2014 00:00:00	99.2%	94%	99.6%	97.5%
11/10/2014 00:00:00	11/17/2014 00:00:00	99.5%	98.3%	99.7%	98.8%
11/17/2014 00:00:00	11/24/2014 00:00:00	96.5%	96.4%	99.7%	99.9%
11/24/2014 00:00:00	12/01/2014 00:00:00	97.4%	90.3%	83.8%	78.0%
12/01/2014 00:00:00	12/08/2014 00:00:00	99.3%	98.3%	90%	91%
12/08/2014 00:00:00	12/15/2014 00:00:00	99.6%	99.7%	99.8%	99.5%
12/15/2014 00:00:00	12/22/2014 00:00:00	99%	99%	99.8%	99.9%
12/22/2014 00:00:00	12/29/2014 00:00:00	99.5%	99.5%	99.8%	99.6%
12/29/2014 00:00:00	01/05/2015 00:00:00	99.4%	99.1%	99.3%	98.2%
01/05/2015 00:00:00	01/12/2015 00:00:00	99.5%	99.6%	98.5%	98.6%
01/12/2015 00:00:00	01/19/2015 00:00:00	99.7%	95.0%	99.8%	98.8%
01/19/2015 00:00:00	01/26/2015 00:00:00	0%	97.7%	0%	93.7%
01/26/2015 00:00:00	02/02/2015 00:00:00	73%	99.3%	73.5%	99.7%

Missing info in offline DB working on fixing this



ND POT fraction and Live Time Fraction





FD POT Fraction and Live Time Fraction

