



MINOS

MINOS+ Status Report

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All Experimenters' Meetings
April 28 , 2014



Near Detector

MINOS



Overall Steady Running

- No Hardware issues known



Far Detector

MINOS

Overall Steady Running



- Accidentally killed the DAQ by power cycling a crate: a few minutes of downtime
- Ongoing issues with auxiliary PPS monitor system in Crate 4
 - Still under investigation:
 - Primary system in Crate 2 works fine
- Two flat CI channels (minor calibration problem)
 - Possible PMT base failure for one: they'll try replacing it at the next beam downtime
 - Still monitoring/investigating the other



Near/Far Detector

MINOS

BlueArc issues

- Last week, ND and FD DAQ crashed twice, on Thursday and Friday around 16:00 pm
- msg alerts were sent to cell phones and were responded within minutes
- When trying to restart the DAQ, we noticed that:
 - DCP processes were not completing
 - Logging into the gateways machine and in the Daq machines was very slow
 - When successful, commands like “df” or “ls” were also very slow
- A ticket was opened with FEF/SWS that immediately responded
- Problems were traced down to a loss of connectivity to BlueArc, where the home area resides
- BlueArc Monitoring pages showed a very high disk usage at the time
- Eventually the system recovered by its own within 20 minutes on Thursday (about 6 minutes on Friday).
- Storage Network Services is now assigned to this ticket and they are monitoring the BlueArc system. Still unclear who’s filling up the disk.
- We would like to thank CS FEF/SWS and everyone involved for their help.



Near/Far Detector

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Network issues

- A(nother) DNS (Domain Name System) bug was discovered this past Saturday (previous issue happened on 4/11)
- Remote location kerberos failed to reverse authenticate node names
- This prevented remote shifts to be able to startup the RunControl GUIs and monitoring the detectors
- The issue affected MINOS+ ROC (Duluth) but also MINERvA ROC (Tufts)
- A ServiceDesk ticket was opened and CS responded immediately
- Cause was traced back to a problem in reverse DNS lookups for addresses registered to Fermilab
- From INC000000411965 : "Until the DNS records can be corrected at the American Registry for Internet Numbers (ARIN) to point to the correct DNS servers, we opened NSDNS1 and NSDNS2 to the Internet to restore functionality until ARIN gets updated and DNS gets corrected".
- This workaround fixed the connection problems and all was back to normal within an hour. **No data was lost** because of this problem.
- We would like to thank CS Network group for their help.



MINOS+ Status

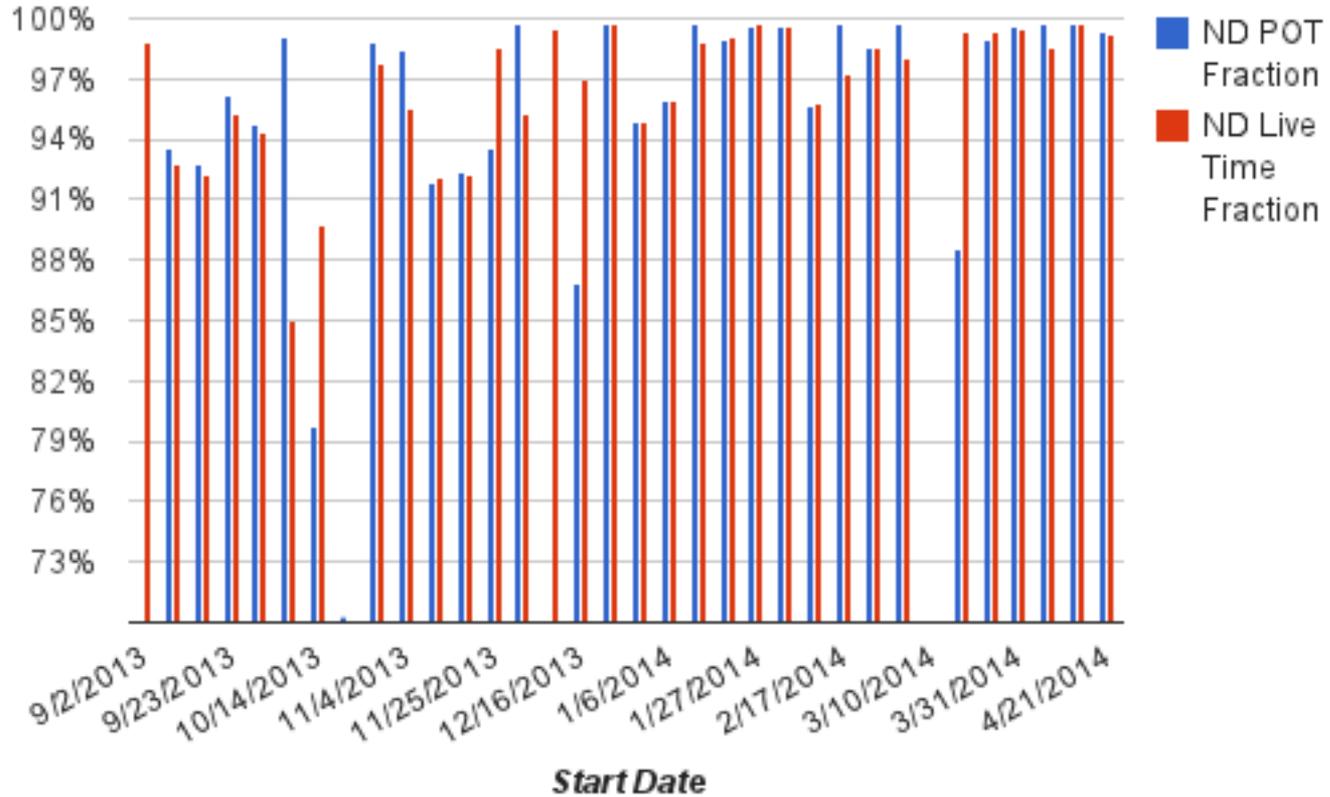


Start Date/Time	End Date/Time	Near Detector		Far Detector	
		POT Fraction	Live Time Fraction	POT Fraction	Live Time Fraction
12/30/13 00:00:00	01/06/14 00:00:00	94.9%	94.9%	98.5%	98.5%
01/06/14 00:00:00	01/13/14 00:00:00	95.9%	95.9%	98.7%	98.8%
01/13/14 00:00:00	01/20/14 00:00:00	99.7%	98.8%	99.8%	99.3%
01/20/14 00:00:00	01/27/14 00:00:00	99.0%	99.1%	95.2%	94.8%
1/27/14 00:00:00	2/3/14 00:00:00	99.7%	99.7%	95.8%	96.6%
2/3/14 00:00:00	2/10/14 00:00:00	99.5%	99.6%	94.9%	95.2%
2/10/14 00:00:00	2/17/14 00:00:00	95.7%	95.7%	99.9%	99.0%
2/17/14 00:00:00	2/24/14 12:00 AM	99.7%	97.2%	78.0%	87.0%
2/24/14 00:00:00	3/03/14 12:00 AM	98.5%	98.5%	2.09%	2.13%
3/03/14 00:00:00	3/10/14 00:00:00	99.8%	98.0%	88.0%	84.2%
3/03/14 00:00:00	3/17/14 00:00:00	33.6%	48.5%	79.8%	99.1%
3/17/14 00:00:00	3/23/14 12:00:00	88.6%	99.4%	88.4%	99.3%
3/23/14 00:00:00	3/30/14 00:00:00	98.9%	99.3%	98.3%	94.1%
3/31/14 00:00:00	4/7/14 00:00:00	99.6%	99.5%	87.6%	91%
4/7/14 00:00:00	4/14/14 00:00:00	99.7%	98.5%	94.3%	93.2%
4/21/14 00:00:00	4/28/14 00:00:00	99.3%	99.2%	99.1%	98.5%



MINOS

ND POT fraction and Live Time Fraction





MINOS

FD POT Fraction and Live Time Fraction

