

The MINERvA Operations Report All Experimenters Meeting

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Dec 12, 2016

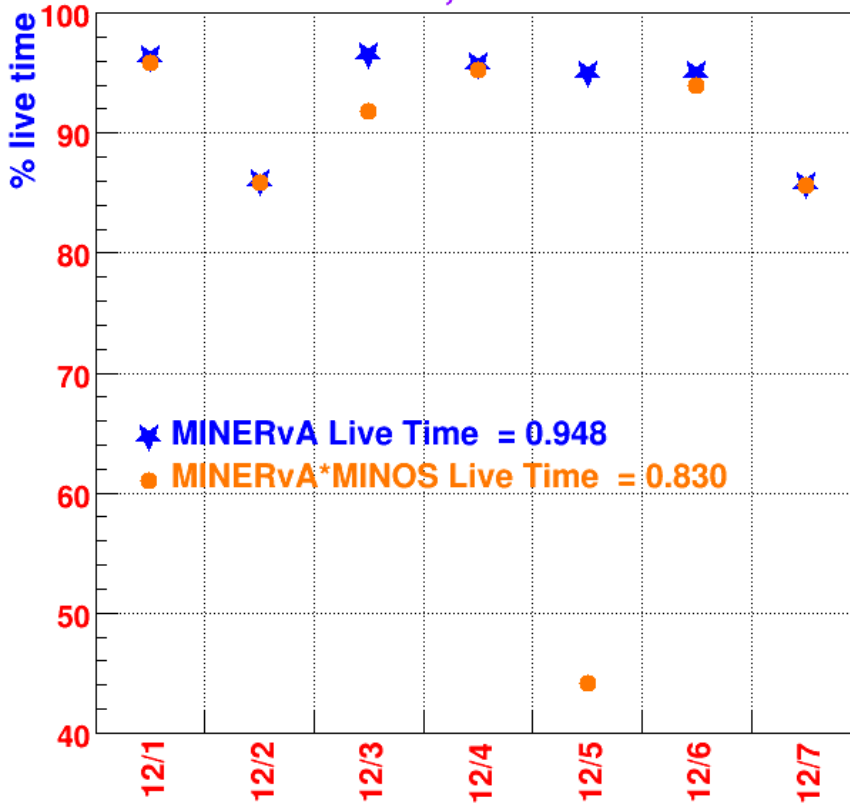




ν Data

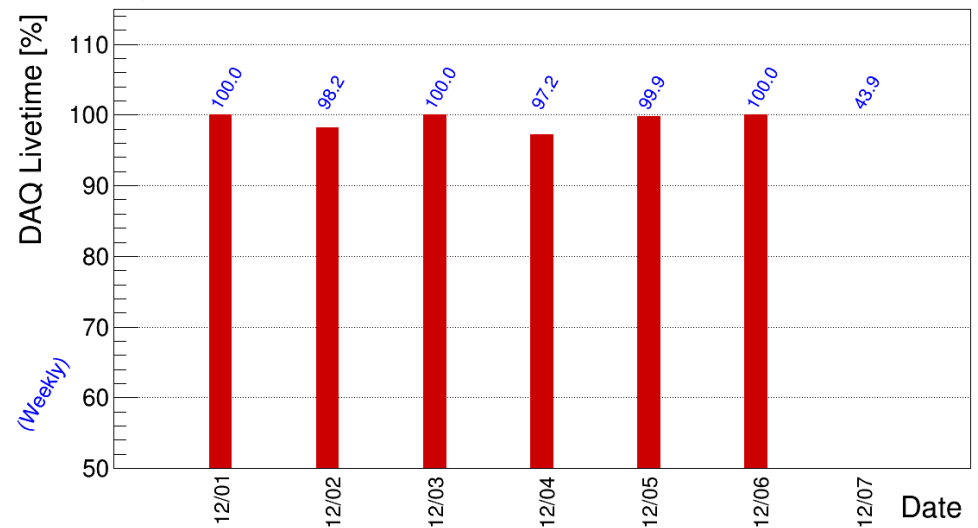


Dec 1 to Dec 7, 0.84×10^{19} POT



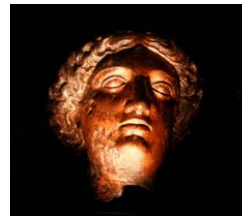
- Live Time – Dec 1-7 2016
- 0.84×10^{19} POT
- MINERvA 94.8% live
- MINERvA DAQ 91.3% live
- MINERvA*MINOS 83.0% live

Avg. 12/01-12/07 = 91.3% MINERvA DAQ Clock Livetime





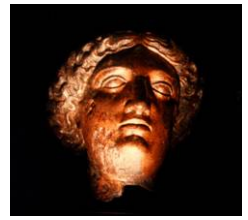
v Data



- Dec 3 - 95% MINOS live.
 - MINOS DAQ stopped; it took a while to get it going.
- Dec 5 - 46.5% MINOS live .
 - The CPU of one of the MINOS DAQ computer died. It took most of the day to switch over to the hot spare.
 - Thanks to Bill Badgett, Donatella Torretta, & Steve Hahn of the ND & the SLAM group.
 - The CPU was replaced on the computer that died, and it is now underground as a hot spare.
- Dec 9 - MINOS
 - The ND chiller tripped off due to a glycol leak, but the temperatures did not get high enough to cause a problem in MINOS.



v Data



- Dec 1-7 - 94.8% MINERvA POT live
 - Not clear why our live times were lower. As seen from the DAQ live time plot, they should have been higher. The slightly lower DAQ live times are due to 1 hardware error & 2 times where the DAQ stopped without a hardware error. These problems were quickly resolved. We are investigating the lower POT live times.
 - Dec 7 – 85.6% MINERvA live
 - The lower DAQ live time on Dec 7 was due to switching the DAQ computer from mnvonline06 to mnvonline05 as a test, but this does not explain the lower POT efficiency.

Average Jobs Running Concurrently [↗](#)

1189

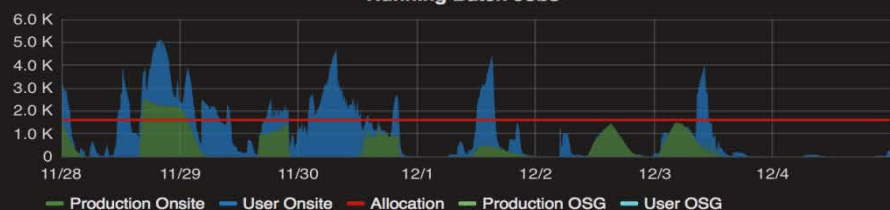
Total Jobs Run [↗](#)

192841

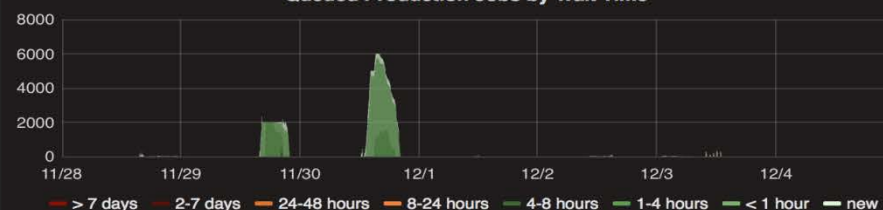
Average Time Spent Waiting in Queue (Production) [↗](#)

11.7 min

Running Batch Jobs



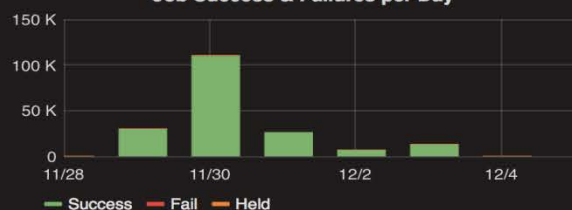
Queued Production Jobs by Wait Time



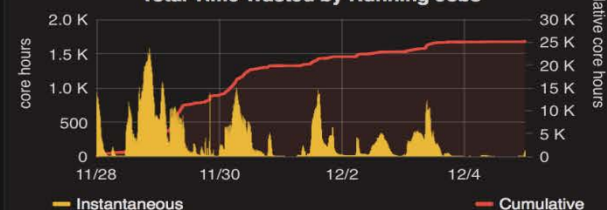
Job Success Rate



Job Success & Failures per Day

Overall CPU Efficiency [↗](#)

Total Time Wasted by Running Jobs

New Data Cataloged [↗](#)

21.5 TB

Total Data Cataloged [↗](#)

1.4 PB

- Period 12/05 - 12/12.
- Average concurrent jobs are lower than quota.
- Success Rate is very good.
- Efficiency is slightly low. Appears to be a production inefficiency. Working with the production team to figure out what happened.