

The MINERvA Operations Report All Experimenters Meeting

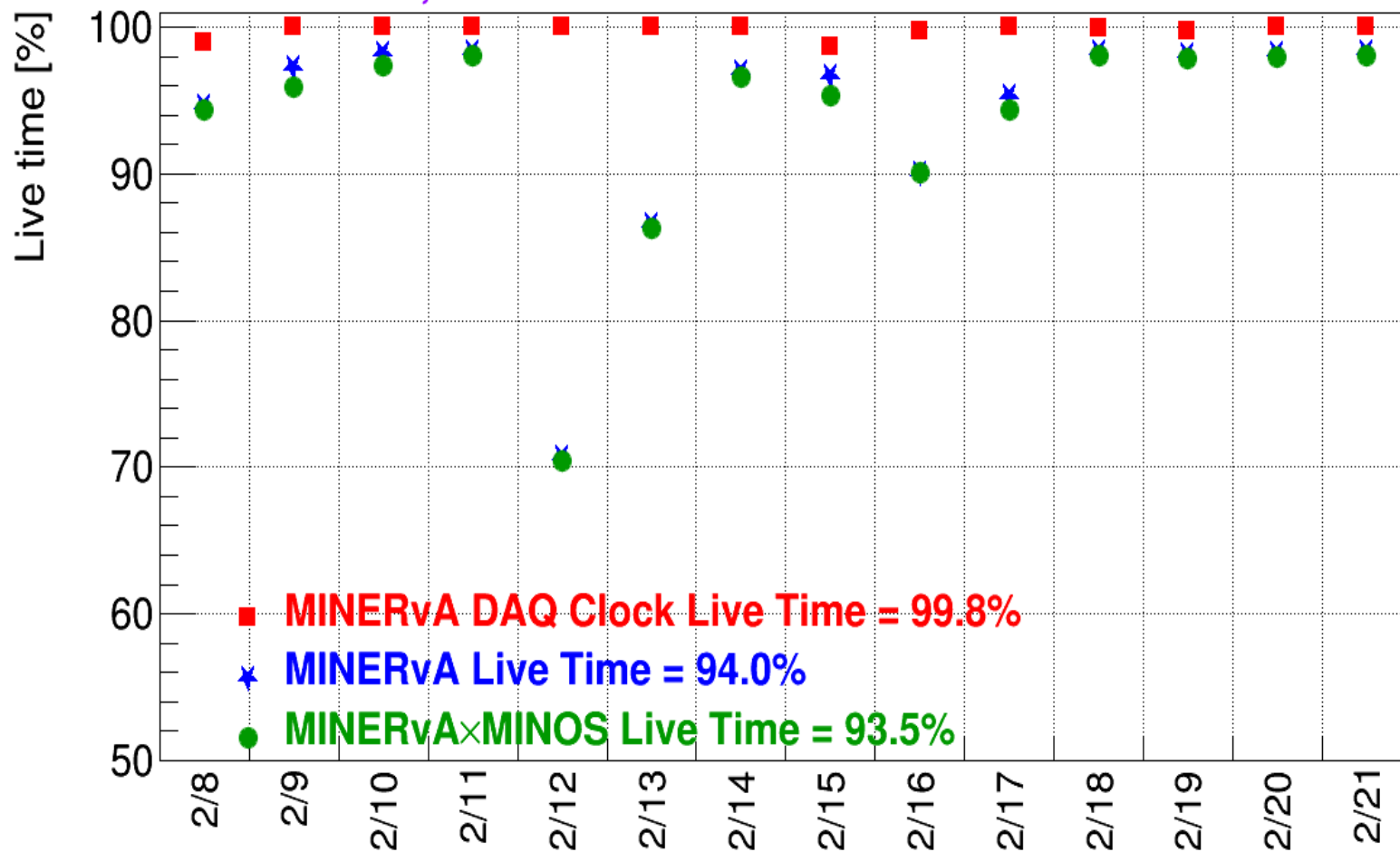
Howard Budd, University of Rochester
Feb 26, 2018



ν Data



Feb 8 - Feb 21, 2018: POT Delivered = 3.73×10^{19}





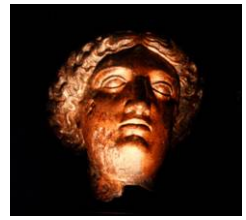
v Data



- Feb 8, 94.7% MINERvA live
 - Hardware error on one of the MINERvA chains.
- Feb 12,13, 78.5% MINERvA live
 - Live times not presented last week because of Feb 12-13. 10 hours of raw data files were not copied to long term storage. The data exist. The files have still not been processed.



v Data



- Feb 16, 90.1% MINERvA live
 - The DAQ machine sends the DAQ log files to a permanent location and the web area via minervagpvm02. The online monitoring (OM) system also uses minervagpvm02 to update database information for each subrun. However, minervagpvm02 was down and all the requests sent by the DAQ and OM were denied. Hence, the DAQ stopped and OM failed. We had to clean out all these requests to get the DAQ and OM going.
 - As the gpvm machines were becoming less reliable, minerva-cr-03, one of the ROC-W machines, is now doing the job previously done by minervagpvm02.
 - Thanks to the SLAM group.
 - Also a subrun not processed.
- Feb 17 95.4% MINERvA live
 - 3 subruns not processed



Feb 26 Power Outage



- MINERvA came back quickly with no issues, a bit of a surprise.
- MINOS did not come up so quickly and it took a couple of hours to bring MINOS up. As with any unplanned power outage, each component may have to be restarted, as the MINOS was not properly turned off. On the good side, no component failed during the shutdown, which sometimes happens.
 - We would like to thank help from Steve Hahn of ND on bringing up the MINOS detector.
- MINERvA and MINOS have been running well after the power outage.

Average Jobs Running Concurrently

3104

Total Jobs Run

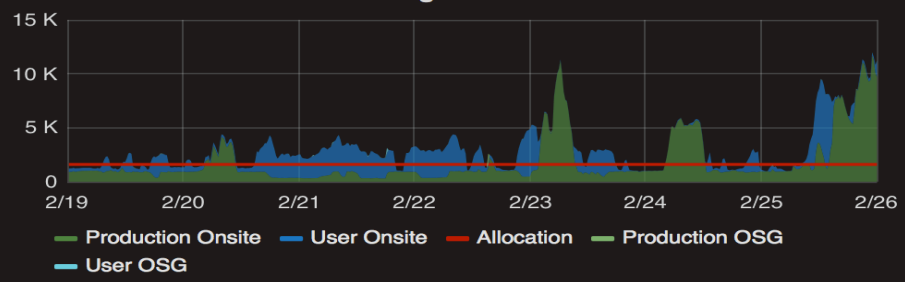
559036

Feb 19 - 25

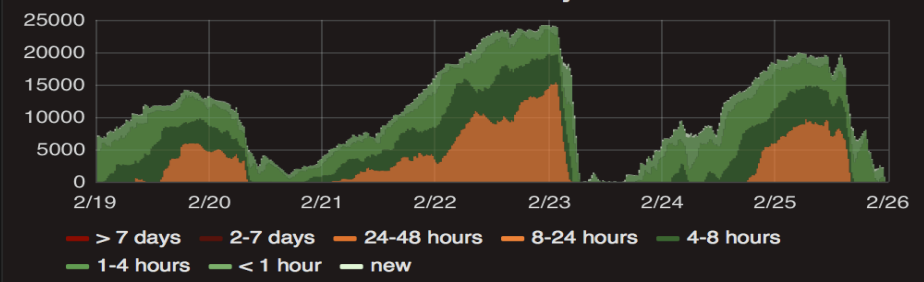
Average Time Spent Waiting in Queue (Production)

7.47 hour

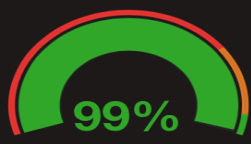
Running Batch Jobs



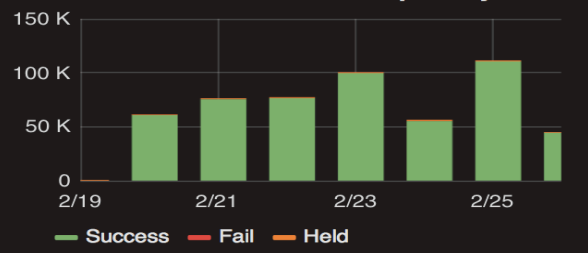
Queued Production Jobs by Wait Time



Job Success Rate



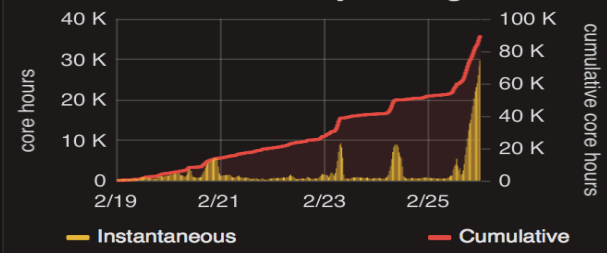
Job Success & Failures per Day



Overall CPU Efficiency



Total Time Wasted by Running Jobs



New Data Cataloged

2.4 TB

Total Data Cataloged

2.0 PB

- Average concurrent jobs are higher than quota (~1600) due to the production job
- Job success rate was very good (99%)
- CPU efficiency was low due to dCache issue, dCache was not stable last week.