The MINERνA Operations Report
All Experimenters Meeting
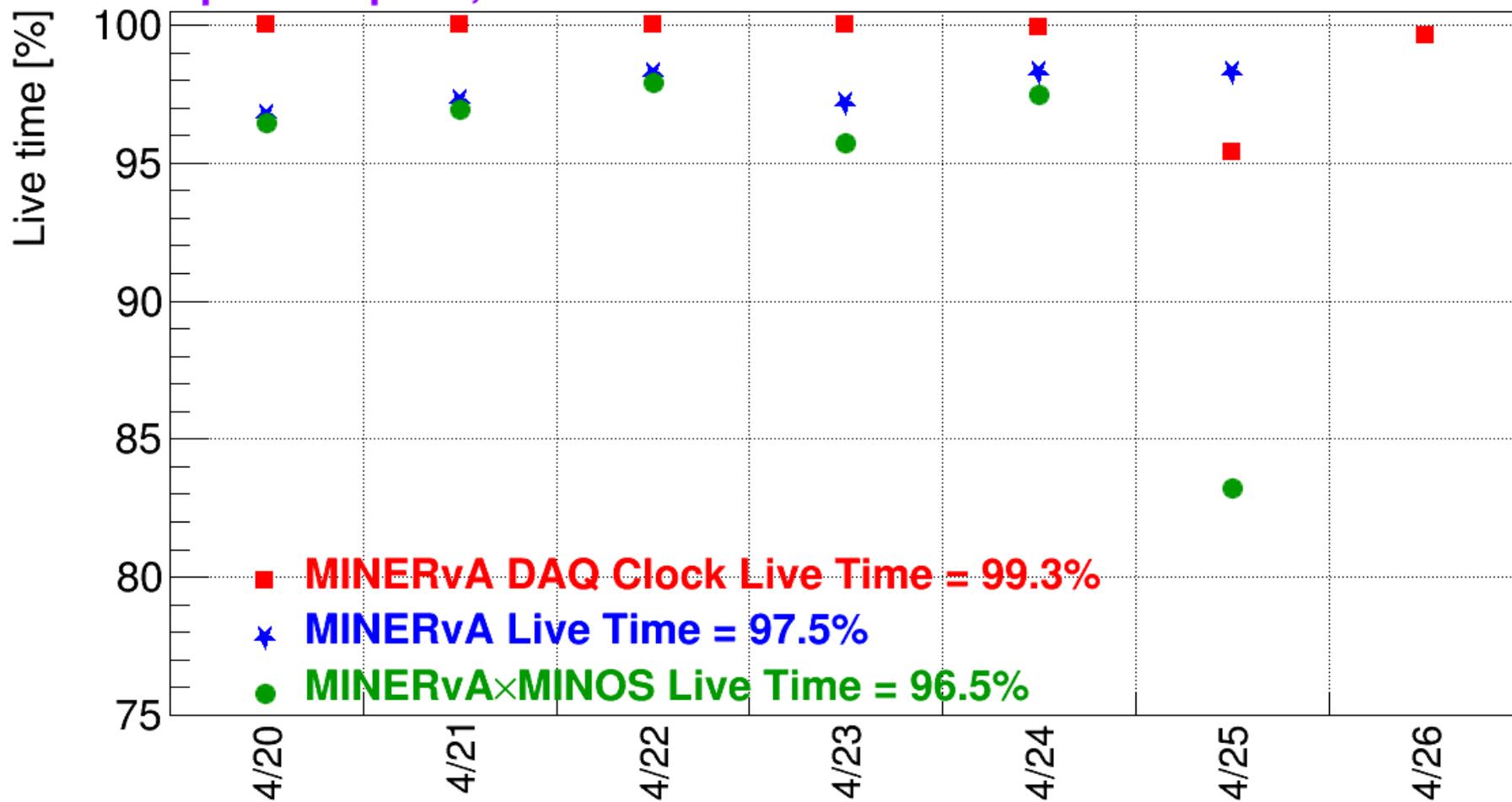
Howard Budd, University of Rochester
May 1, 2017

ν Data

Apr 20 - Apr 26, 2017: POT Delivered = 1.22×10^{19}

- ■ MINERvA DAQ Clock Live Time = 99.3%
- ✶ MINERvA Live Time = 97.5%
- ● MINERvA×MINOS Live Time = 96.5%

ν Data

- Apr 25 – 84.7% MINOS live
  - MINOS DAQ went down. Only ~ 4 hours of beam so MINOS as brought up fairly quickly

ν Data

- MINOS Magnet
  - MINOS Magnet tripped Apr 30 ~ 5 AM. Steve Hahn and Walt Jaskierny reset the breaker and got the magnet running ~ 8 AM.
    - Walt suggested it might be due to the heavy rain over the weekend filling up the conduit which holds the cables.
    - There are 4 cables taking power from the upstair breaker to downstairs. Only 2 are needed. Steve Chappa and Walt Jaskierny disconnect 2 of them in the MINOS hall. This helped. However, since they are still connected upstairs, they are still energized.
    - The Magnet run for ~ 12 day in this configuration, until this trip
  - The magnet tripped again ~ mid-night Apr 30. Steve Hahn reset the breaker and got the magnet running Mar 1 ~ 11 AM. The magnet tripped ~ ½ hour later.

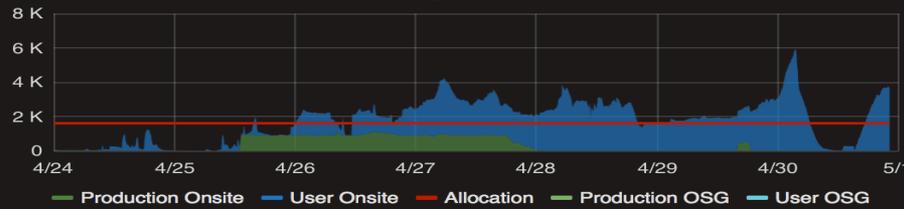MINERvA Computing Summary — Landscape / Fermilab

Average Jobs Running Concurrently: 1790
Total Jobs Run: 104946
Average Time Spent Waiting in Queue (Production): 5.84 hour
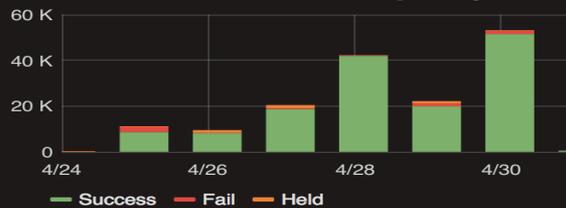
Running Batch Jobs
— Production Onsite — User Onsite — Allocation — Production OSG — User OSG

Queued Production Jobs by Wait Time
— > 7 days — 2-7 days — 24-48 hours — 8-24 hours — 4-8 hours — 1-4 hours — < 1 hour — new
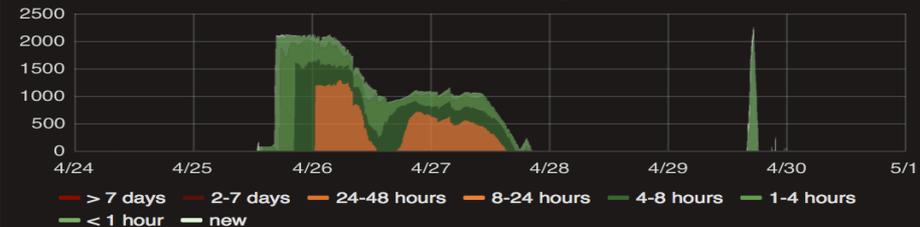
Job Success Rate: 94%

Job Success & Failures per Day
— Success — Fail — Held

Overall CPU Efficiency: 58%

Total Time Wasted by Running Jobs
— Instantaneous — Cumulative
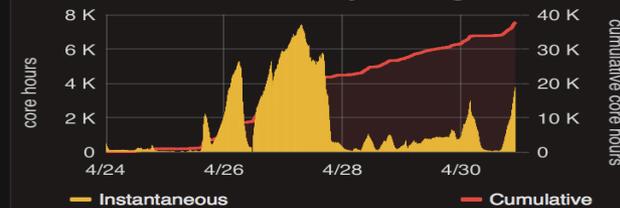
New Data Cataloged: 0.5 TB
Total Data Cataloged: 1.6 PB

- 04/24/2017 - 04/30/2017
- Average concurrent jobs are ~1800
- Job Success rate is good (Small fraction of analyzers' jobs was held mostly due to the time limit)
- Overall CPU Efficiency is low due to MINOS DB issue of the production jobs
  - MINOS DB was migrated into MariaDB and the validation study was done last week → Start using MariaDB for Production job from now

5