

MINERvA Operations Report

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for the MINERvA Collaboration

Proton PMG

7 March 2019

MINERvA Concluded

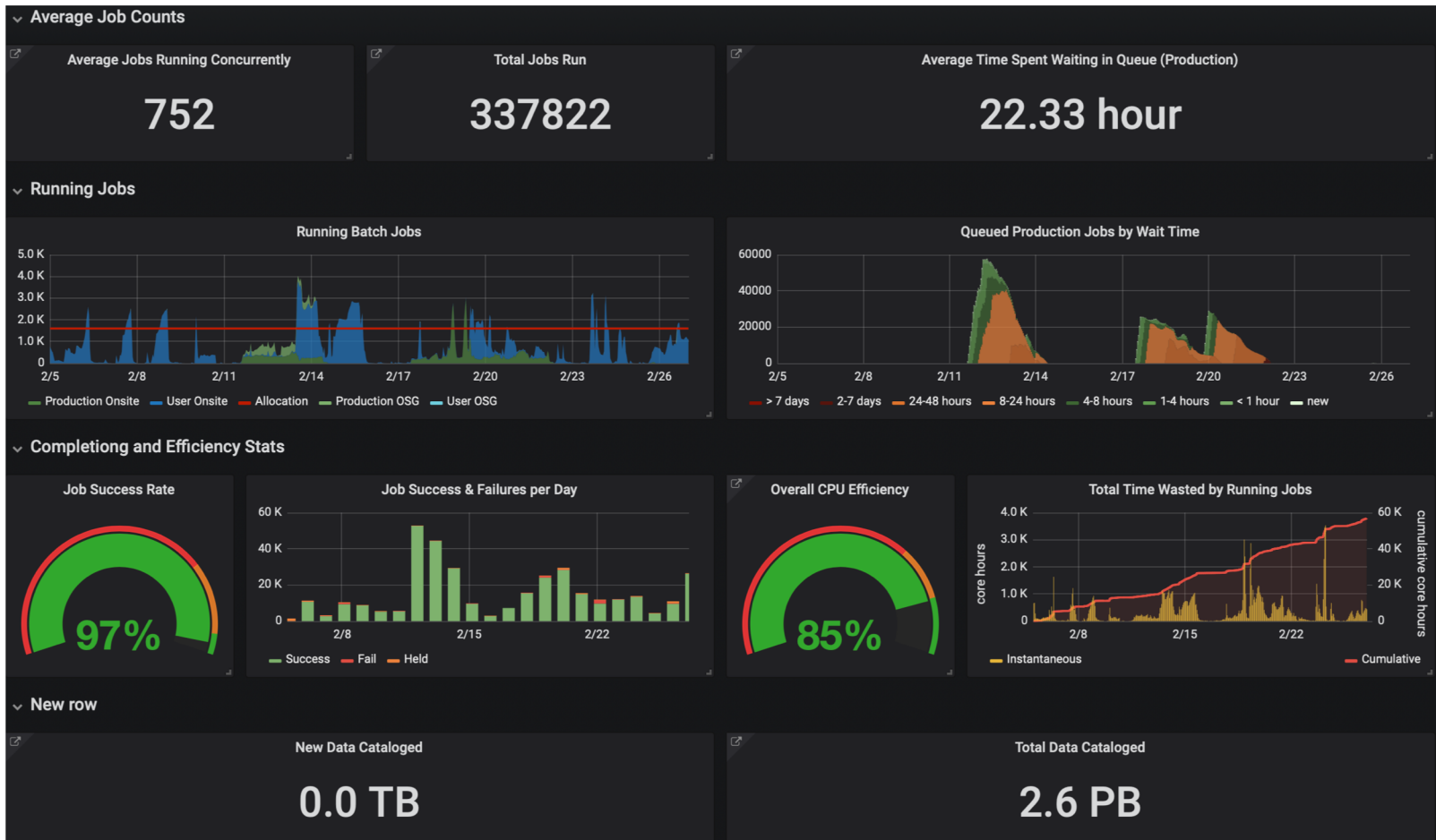


MINERvA concluded its Medium Energy physics data collection on 26th February 2019.

Thank you

- AD: Beam, MINOS magnet
- ND: Helping to run MINOS and MINERvA
- PPD
 - ENG. Sup.: Mechanical support for MINERvA
 - Cryo: He target
 - EED: Firmware, MINERvA DAQ, MINOS hardware
- SCD: Computer, network support etc.
- DB: MINOS and MINERvA data quality monitoring
- Test Beam: test beam detector and operations
- All other support groups!

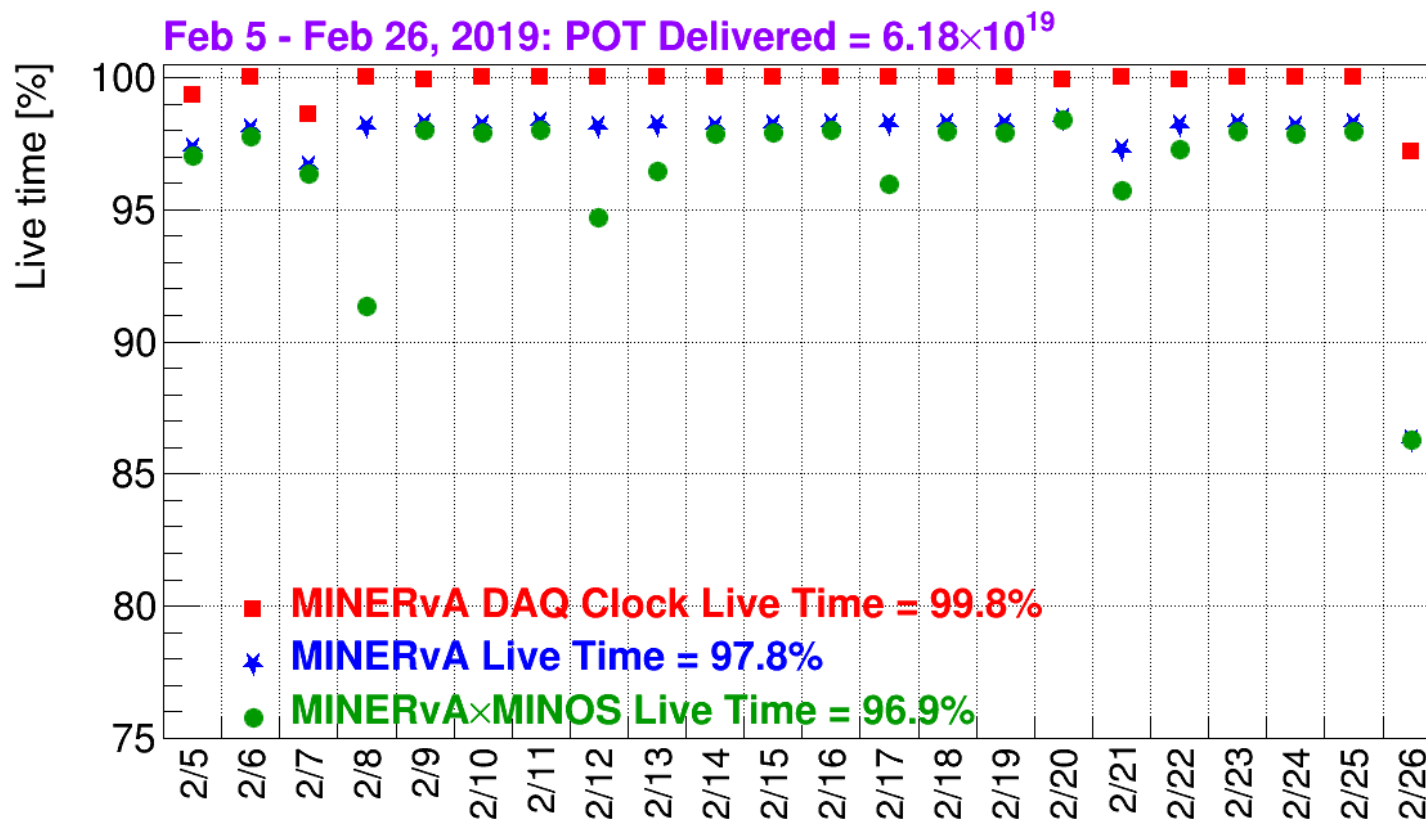
Computing



- Average concurrent jobs is 752, which is less than average quota (~1600).
- Job success rate is 97%.
- Overall CPU efficiency is 85%.

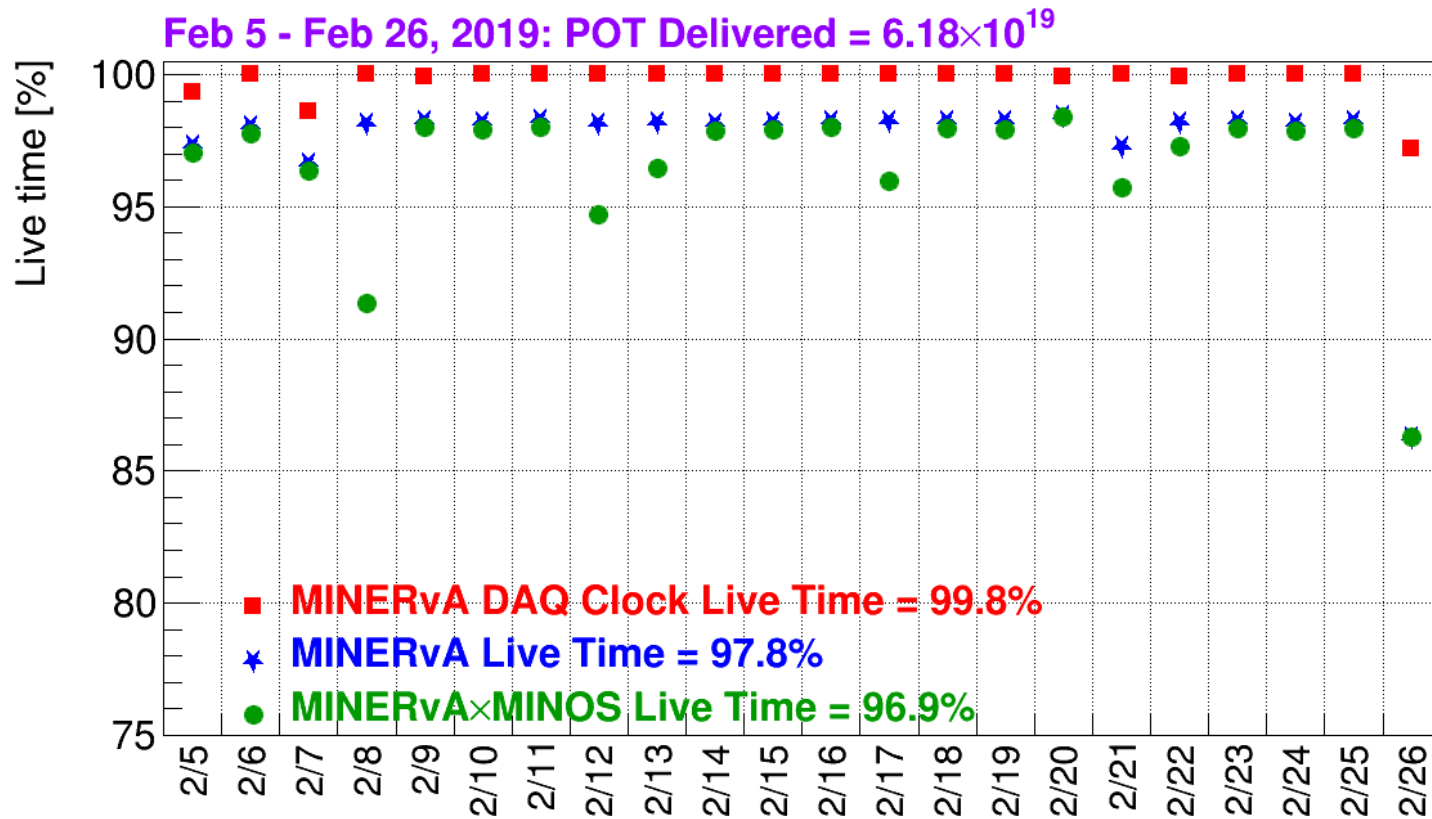
Period
02/05-26, 2019

Live Time and Data Collection



- 2/08 – MINOS fan pack failure.
 - Replaced fan pack. The PS seems to be the issue.
- 2/12 – MINOS QIE board error and noisy channels.
 - Replaced 2 minder boards. Seems to fix the issue.
- 2/13 – Noisy crate 0 signals in MINOS.
 - Recalibration decreased the noise level.

Issues



- ❑ 2/17 and 02/21 – MINOS DAQ crashed.
 - Software reset fixed the issue.
- ❑ 2/26 – Noisy crate 0 signals in MINOS.
 - Recalibration decreased the noise level.
- ❑ 2/26 – Issues with livetime calculation.
 - Working on it. Reprocessing should fix it.

Current Status



- ❑ Not going to process the neutrino mode data taken after 02/26. Running the detectors to monitor beam quality.
- ❑ Running both detectors with checklist shift once a day and expert shift for handling any issues.

- ❑ MINERvA:
 - Replaced 1 FEB to fix a high voltage fluctuation. This seems to be fixed now.

- ❑ MINOS:
 - Discovered LCW water level was going down on 02/27.
 - Magnet tripped on 03/05 due to low water level in the LCW.
 - Steve Hahn et. al. are working on it. This might take a while to fix the issue.

ME Proton On Target



Neutrino:

06 Sep 13 – 28 Jun 16

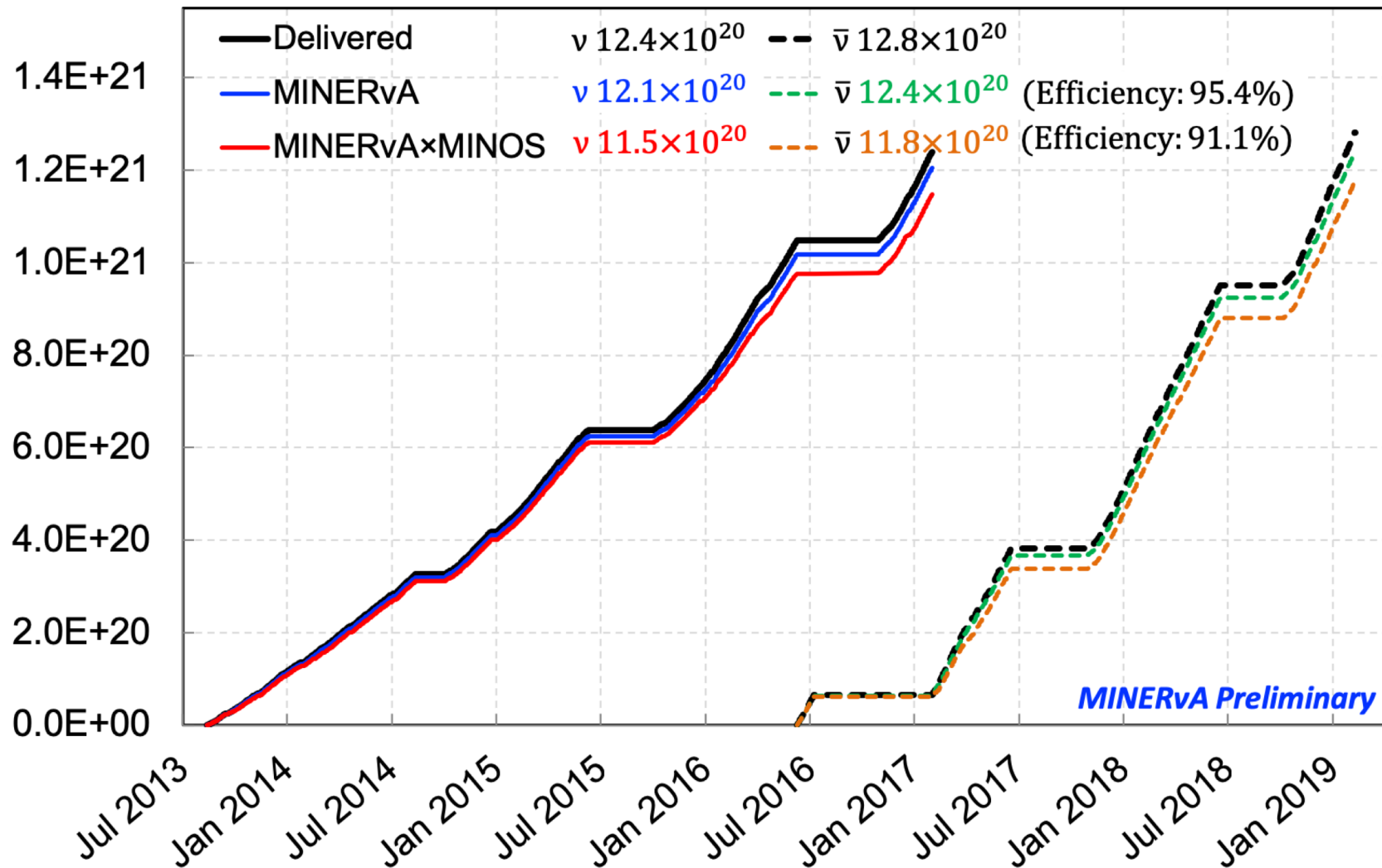
17 Nov 16 – 19 Feb 17

Anti-neutrino:

29 Jun 16 – 29 Jul 16

20 Feb 17 – 26 Feb 19

Protons On Target (POT)





Thank You