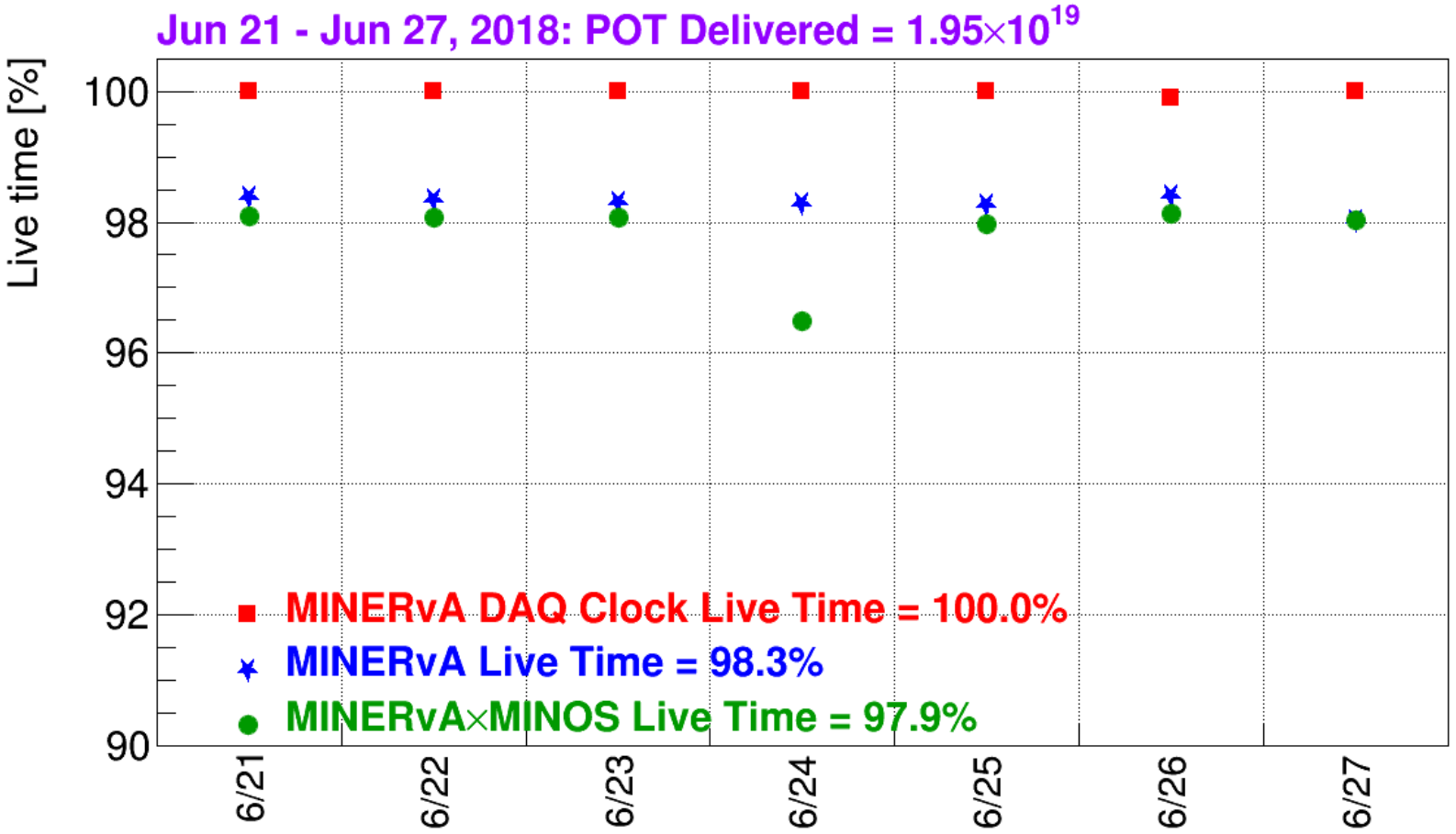
The MINERνA Operations Report
All Experimenters Meeting

Howard Budd, University of Rochester

Jul 2, 2018


MELIORA

anti–ν Data


Jun 21 - Jun 27, 2018: POT Delivered = 1.95×10^19
Live time [%]
100
98
96
94
92
90
6/21
6/22
6/23
6/24
6/25
6/26
6/27
MINERvA DAQ Clock Live Time = 100.0%
MINERvA Live Time = 98.3%
MINERvA×MINOS Live Time = 97.9%

MINERvA Shutdown Tasks

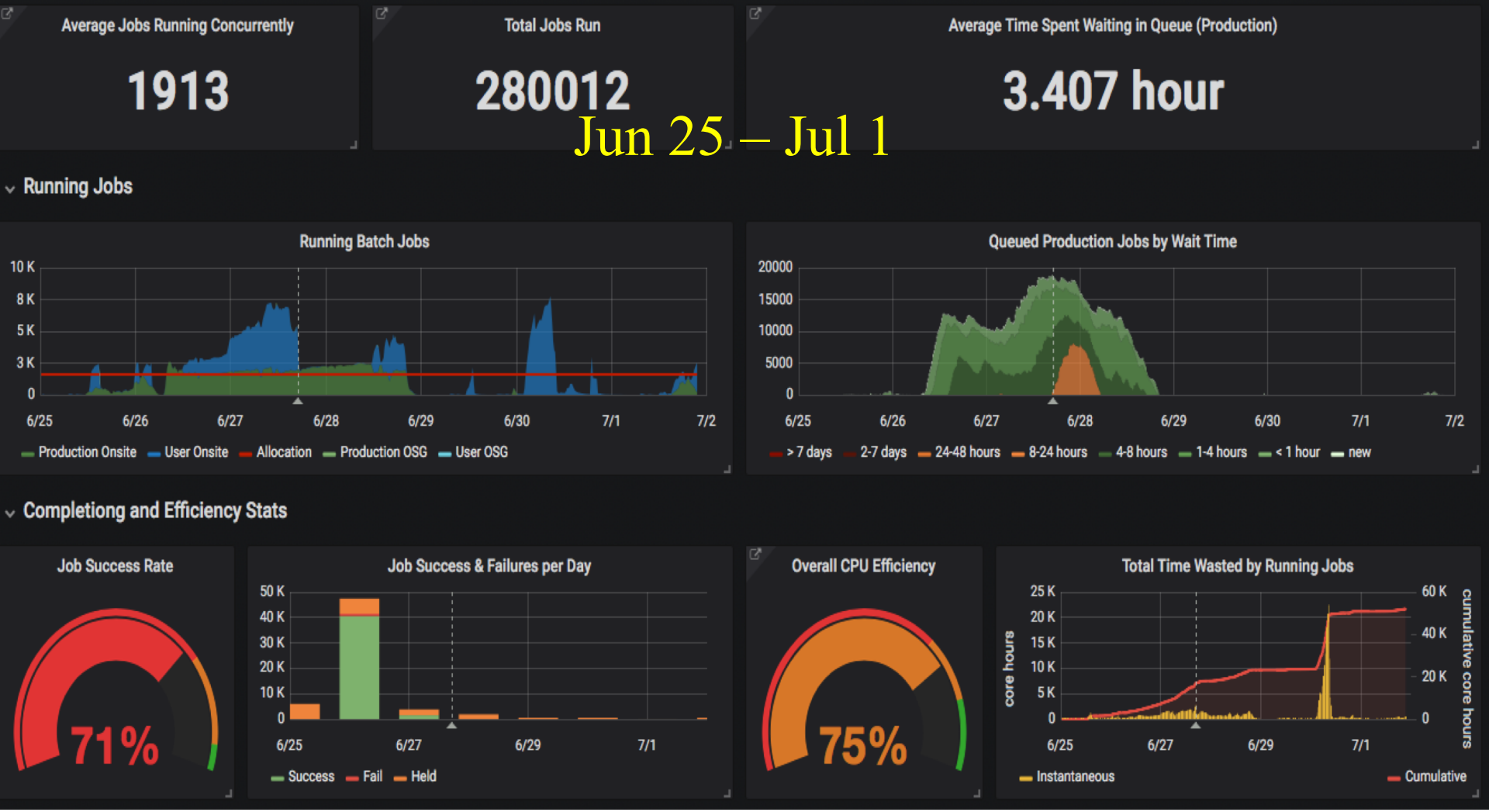
- Convert one the computers in Lab F to a spare DAQ computer.
- There are 2 PMTs which have been having HV spikes every 3 - 5 days. This is not often enough to cause a problem. If it happens more often, we will replace 1st the FEB and next the PMT box. Sometimes these HV spikes go away, so we will not take any immediate action.
- No other MINERvA hardware needs to be replaced.
- Clean the FESB power supplies (power supplies for the FEBs).

Shutdown MINOS Tasks

- Replace all rack rear filters; find new filters for LeCroy HV crates
- Clean HV cards and backplane in rear of LeCroy HV crates
- Magnet/Magnet Power Supply/LCW skid work:
  - Annual maintenance and repair; practice reversing polarity and improve HA (Walt Jaskierney)
  - Drain and replace all water with distilled water
  - While water is drained:
    - Replace flowmeter with flowmeter with stopcock
    - Replace filters (5) in large filter cylinder
    - Replace hand valve for DI bottle flow with one with finer control
- Clean and improve MINOS DAQ rack A/C
- Add new VMware Windows XP instance for video server readout of MINERvA cameras.
- Update the 2 MINOS Desktop computers to SLF 6.8 and put them on SLAM infrastructure.

MINOS Shutdown Task

- Replace a defective RBS Box for the rack which is giving a fake fan failure message.
- Replace hardware that fails during the shutdown: MINDER boards, MASTER boards, power supplies …



- Average concurrent jobs is 1913 which is slightly greater than the average quota,~1600.
- Job success rate is 71%, some jobs were held because of time limit.
- Overall CPU efficiency is 75%.