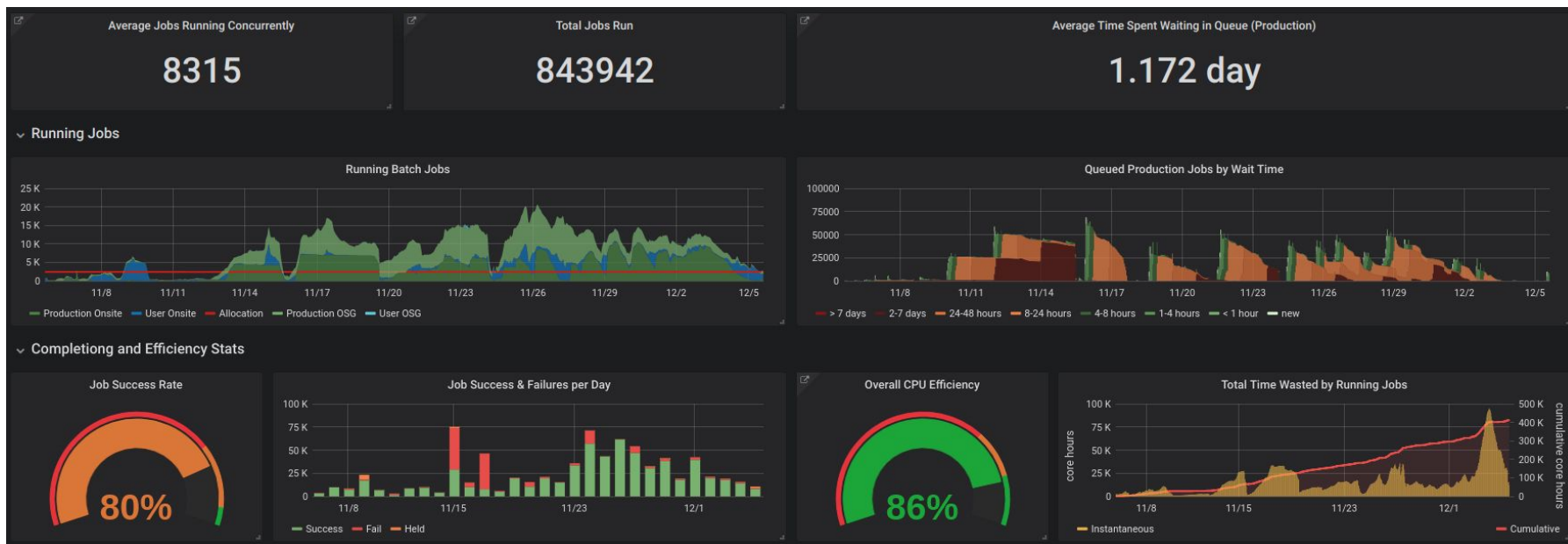# NOvA Experiment Report Update on NOvA Operations

Shih-Kai Lin

Colorado State University

PMG Meeting

Dec. 6, 2018

Computing Summary

- NOvA grid jobs over the last 30 days have primarily been production jobs to increase the statistics of the ND systematics samples
- In total, 1.8 M files with 2.1 PB will be produced for these samples
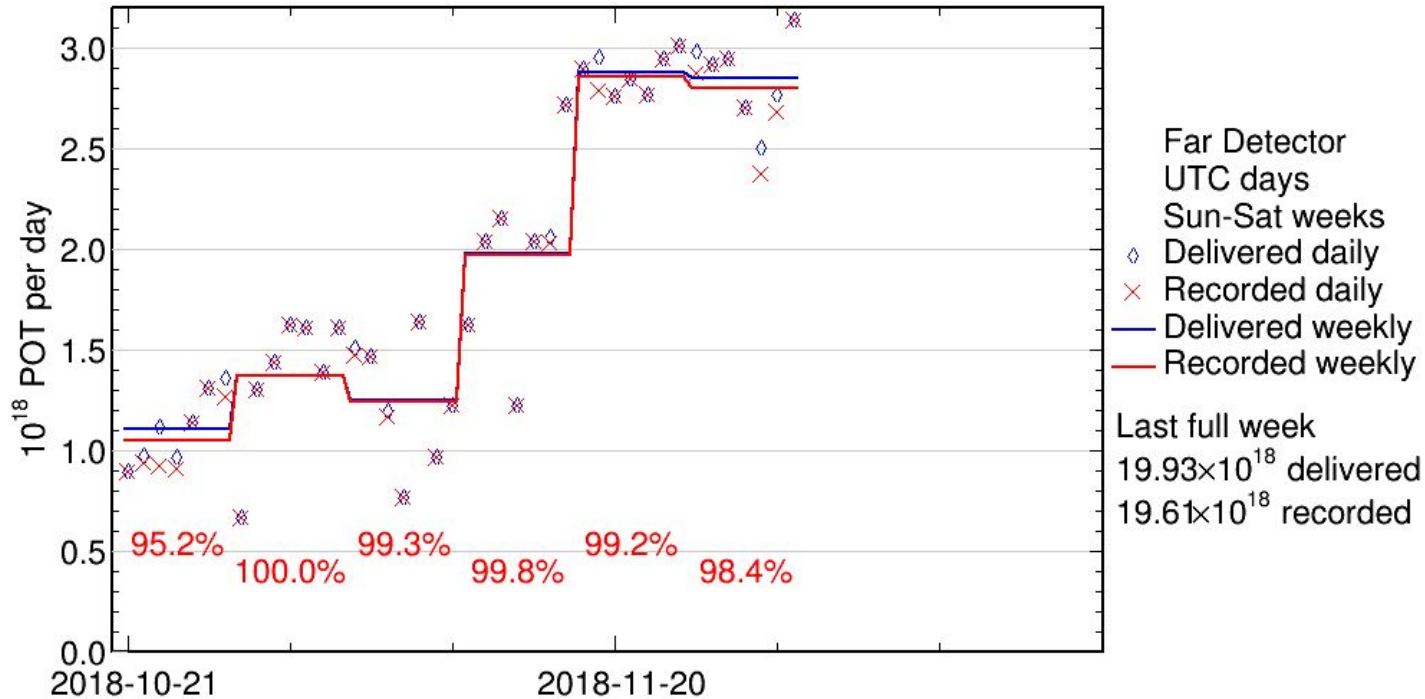- Production of these files is 75% complete

Summary

- On Nov 7, installed cpuset utilities for the ND farm nodes
  - lowered the incomplete event error rate
- On Nov 7, utilised scheduled downtime to swap 5 FEB and 1 APD on the FD.
- On Nov 8, there was ND temperature excursion.
  - Belts and filters changed on NOvA fan coil unit on November 20. No operational issues reported.
- On Nov 24, we had bursts of supernova triggers issued by the ND.
  - Investigation found this was because the automatic noise map module died causing SN trigger to fire repeatedly
  - We are adding in automatic monitoring.
  - Restarting the noise map module does not interrupt data taking.

FD Summary (up to Dec 2)

Far Detector
UTC days
Sun-Sat weeks
◇ Delivered daily
✕ Recorded daily
— Delivered weekly
— Recorded weekly

Last full week
19.93×10^{18} delivered
19.61×10^{18} recorded

- Total FY19 POT: 0.79×10^{20} delivered, 0.80×10^{20} recorded
- Total FHC POT recorded: 11.46×10^{20} (8.85×10^{20} 14 kT equivalent)
- Total RHC POT recorded: 10.24×10^{20}

4

ND Summary (up to Dec 2)