

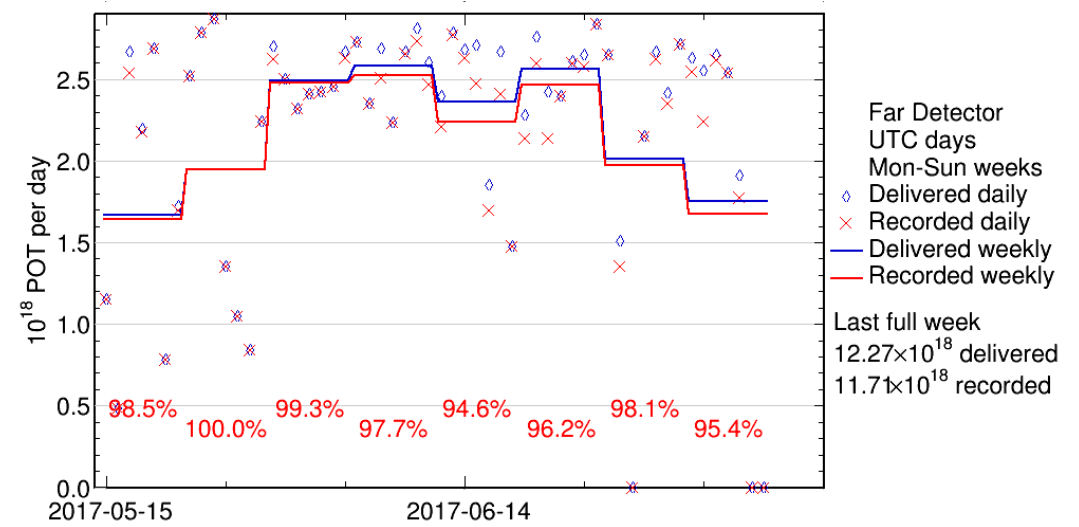
NOvA Experiment Report

Operations for the Week of 7/3

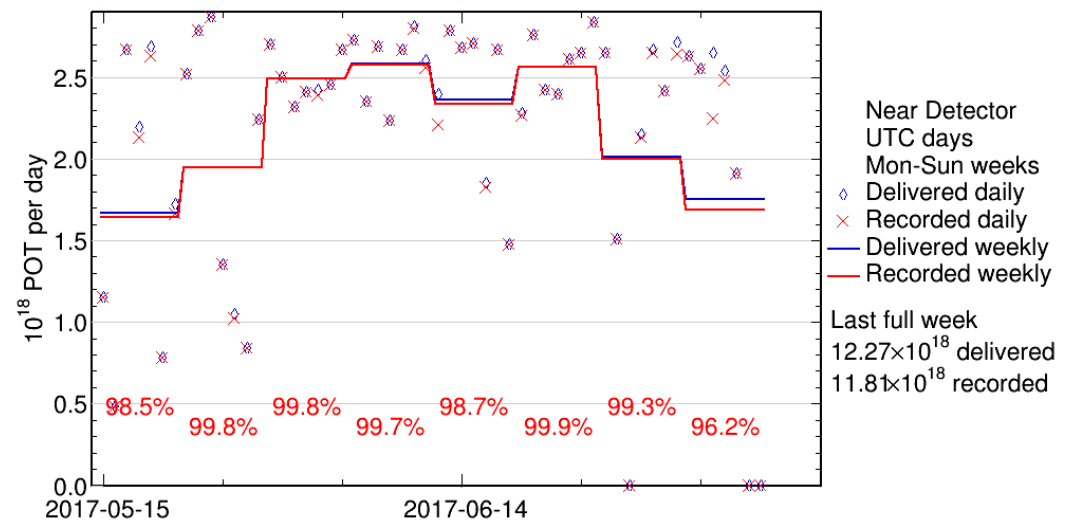
Gavin S. Davies
Indiana University
10 July 2017

DAQ Status and POT Recorded

95.7% POT recorded at the Far Detector over the last 8 weeks (95.4% over the full run period)



99.1% POT recorded at the Near Detector over the last 8 weeks



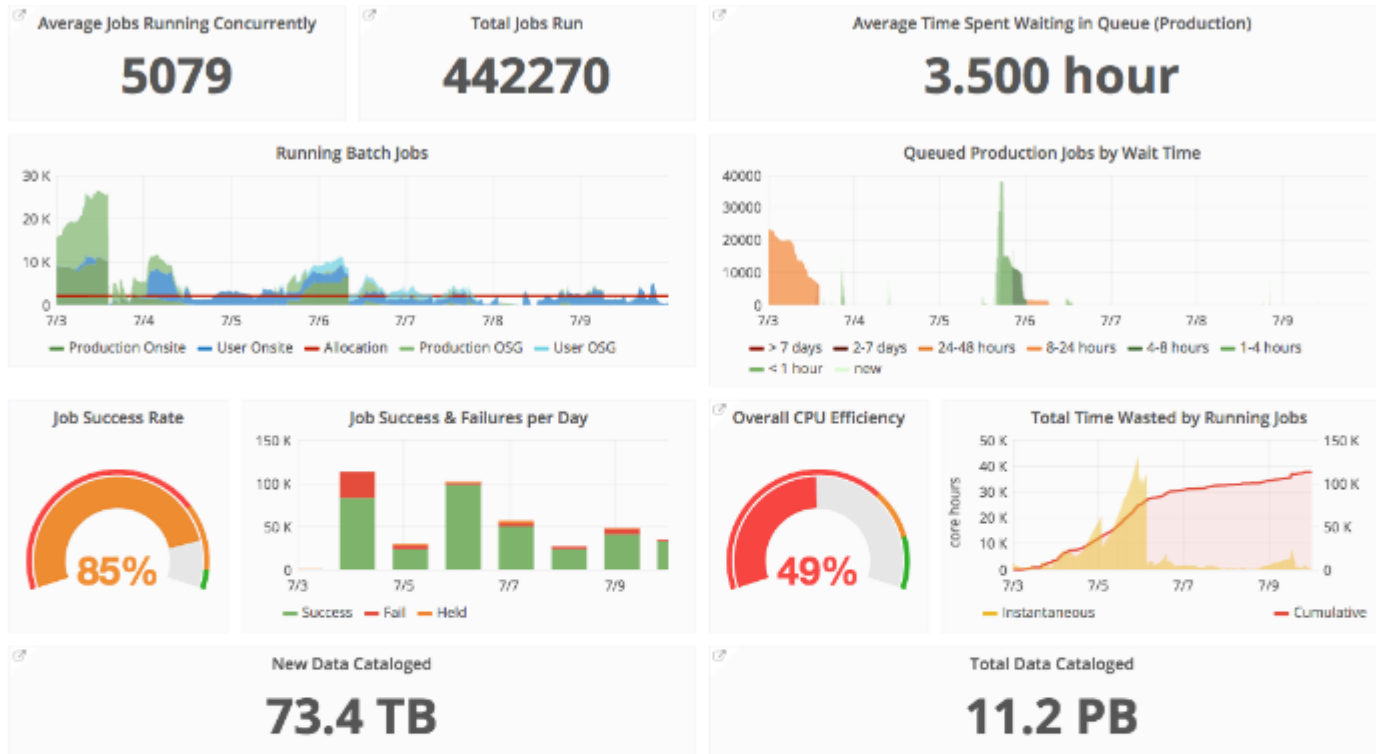
Comments on Uptime

- FD
 - On 7/3, an unexpected power glitch stopped data-taking.
 - Recovering took ~7 hours and led to additional DAQ instability on 7/4
- ND
 - On 7/4, ~4 hours of downtime due to timing system errors

Computing

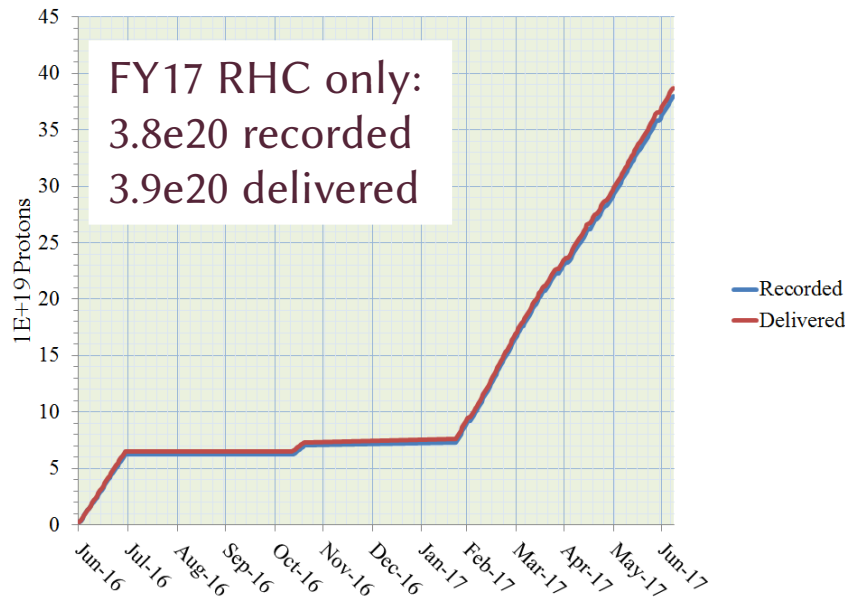
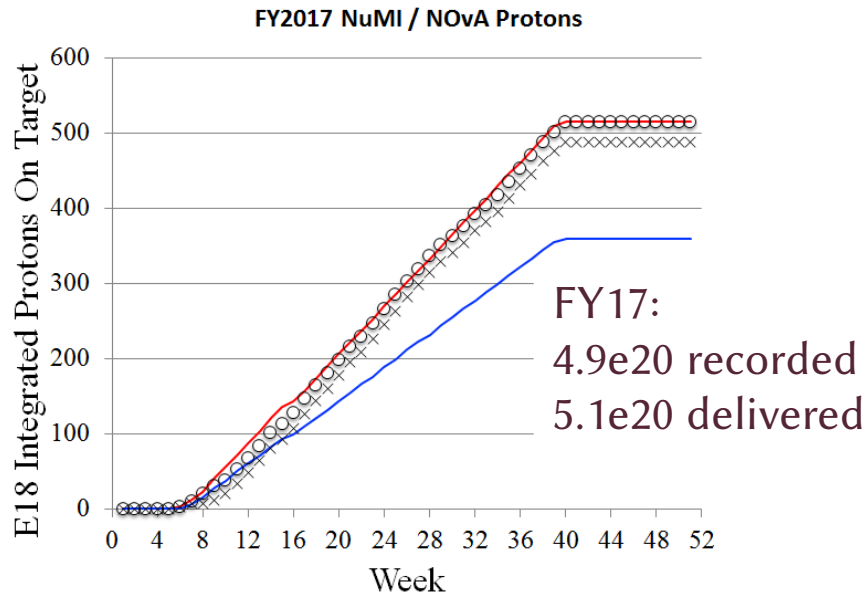


NOvA Computing Summary



- Last week's focus:
 - Clean up of FD data samples.
 - Special samples requested by analysis groups.
 - High Human/CPU-time tasks.
- Low efficiency
 - Investigation continues. Crash-and-hang in production jobs has been addressed.
 - Low efficiency may also be coming from dCache issues in user analysis jobs. Tickets already open with dCache team.

Achievements over the Run



PRL 118, 151802 (2017)

PHYSICAL REVIEW LETTERS

week ending
14 APRIL 2017

Measurement of the Neutrino Mixing Angle θ_{23} in NOvA

PRL 118, 231801 (2017)

PHYSICAL REVIEW LETTERS

week ending
9 JUNE 2017

Constraints on Oscillation Parameters from ν_e Appearance and ν_μ Disappearance in NOvA

FERMILAB-PUB-17-198-ND

Search for active-sterile neutrino mixing using neutral-current interactions in NOvA

Submitted to PRDRC