MicroBooNE Report

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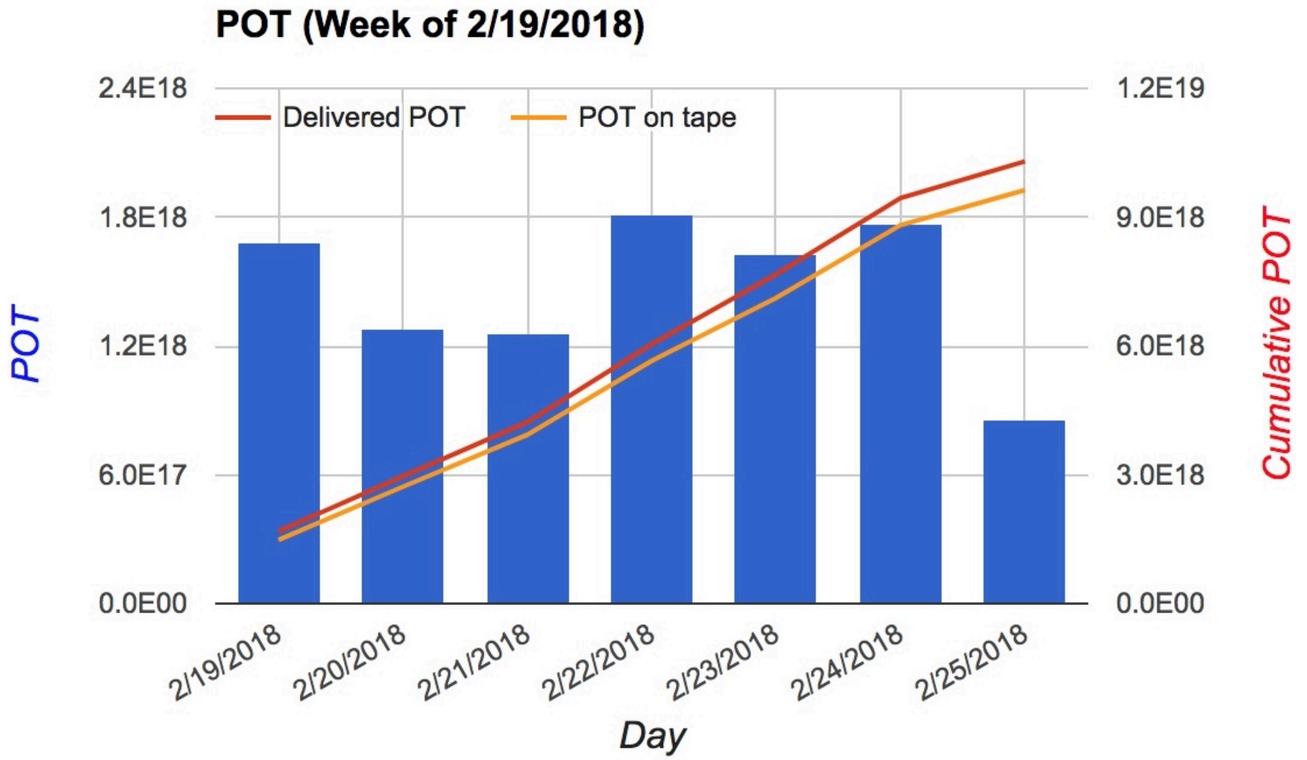
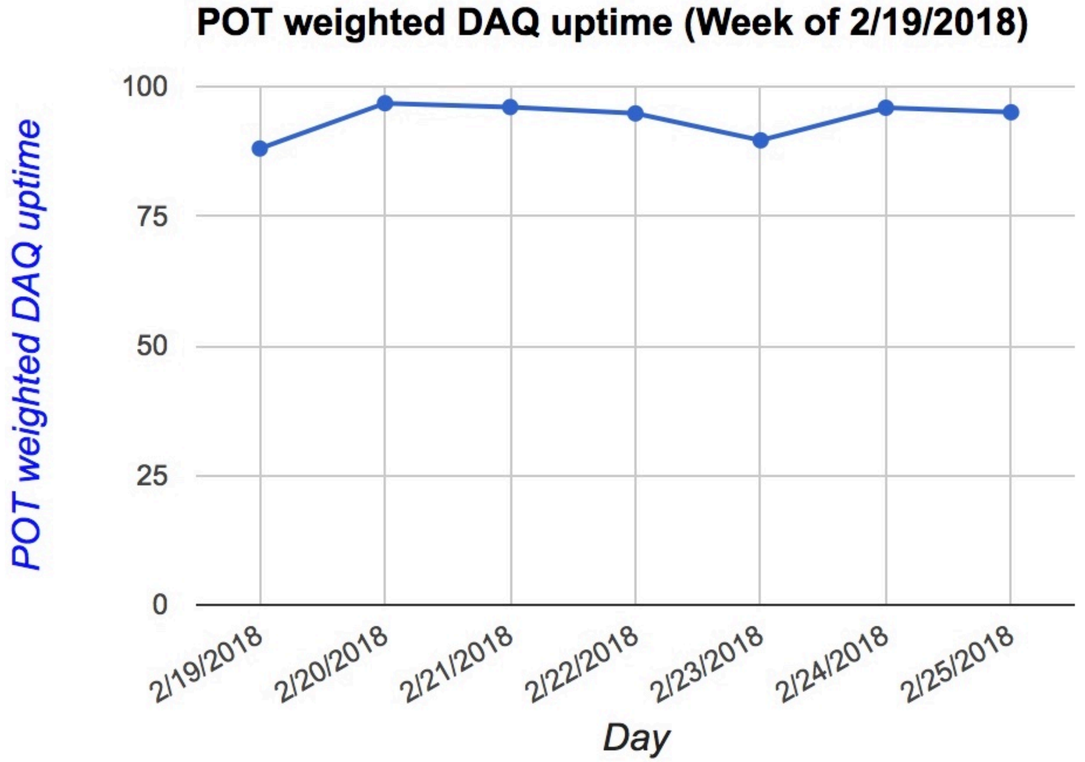
On Behalf of the MicroBooNE Collaboration

All Experimenters' Meeting – February 26, 2018

Beam Statistics & DAQ Uptime





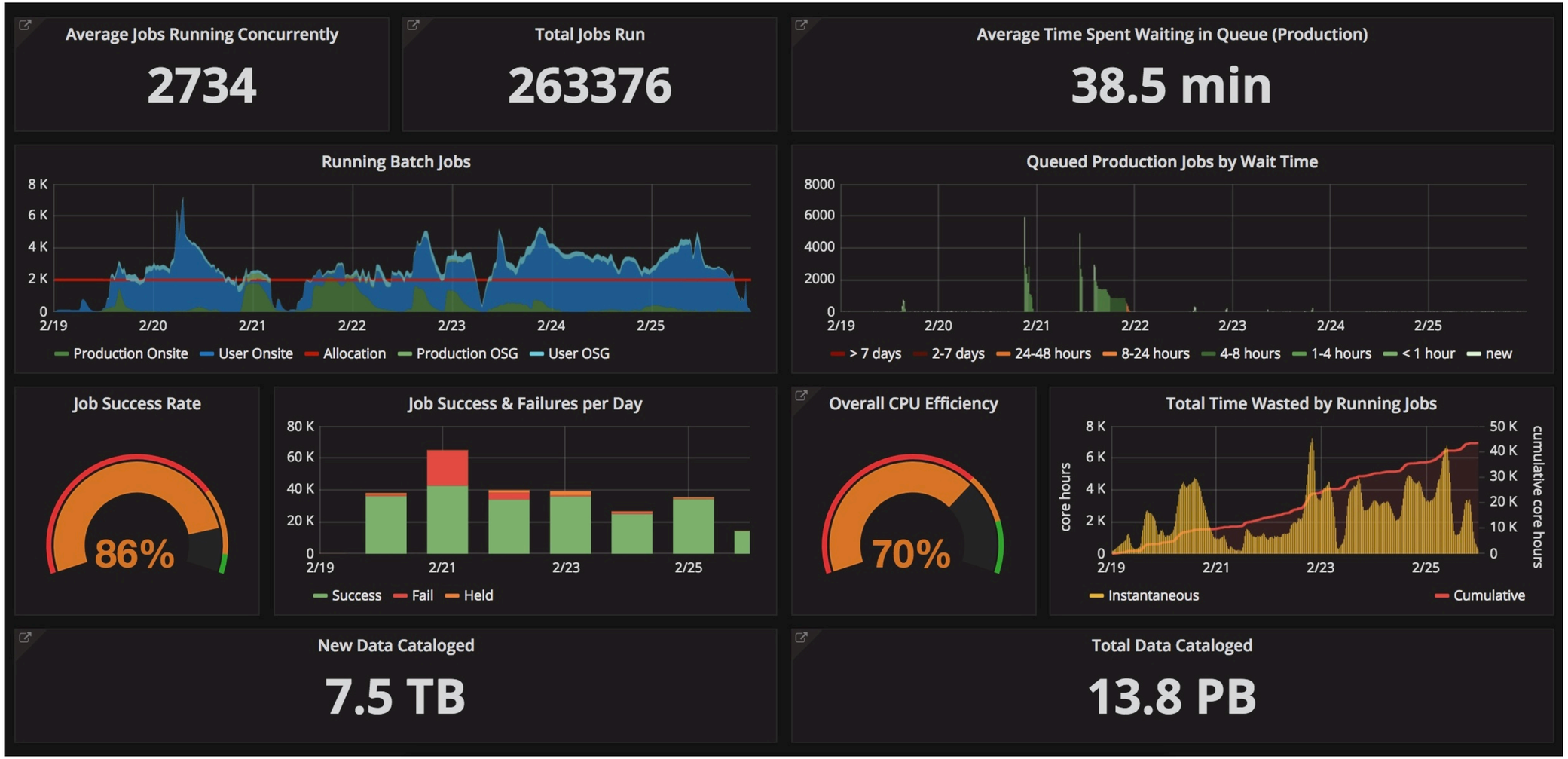
- 1.03×10^{19} POT delivered, 0.96×10^{19} POT recorded on tape
- 82% BNB uptime
- 93.5% POT-weighted DAQ uptime

Downtime

- POT-weighted DAQ uptime was low on Monday and Friday due to runs that did not automatically restart

- A power glitch affected much of Fermilab for ~30s around 10am on Sunday morning, including both the accelerator complex and LArTF
- We didn't loose the DAQ, slow monitoring, or cryo systems, but did temporarily loose TPC HV and CRT
- CRT recovered in about half an hour
- TPC HV recovered after 2-3 hours — this is the time needed to safely ramp up
- MicroBooNE was fully back and taking data cosmic ray data within about 4 hours
- BNB came back later that evening; we did not loose any beam data

Computing Summary



- Improvements to workflow and implementation of best practices continue

Summary

- Sump pump incident
  - A pipe connected to sump pump 1 failed
  - Bryan Johnson noticed water while he was there to do unrelated cryo work
  - Immediately submitted a work order request to FESS
  - FESS responded promptly and switched us to sump pump 2
  - Recovery will be complete this week, once FESS replaces the broken pipe and the floor is dried

- Sump pump pipe failure and power glitch made for a more exciting week than we might have liked, but anticipate full recovery from both of these issues within the next couple days