MicroBooNE Status Report

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On Behalf of the MicroBooNE Collaboration

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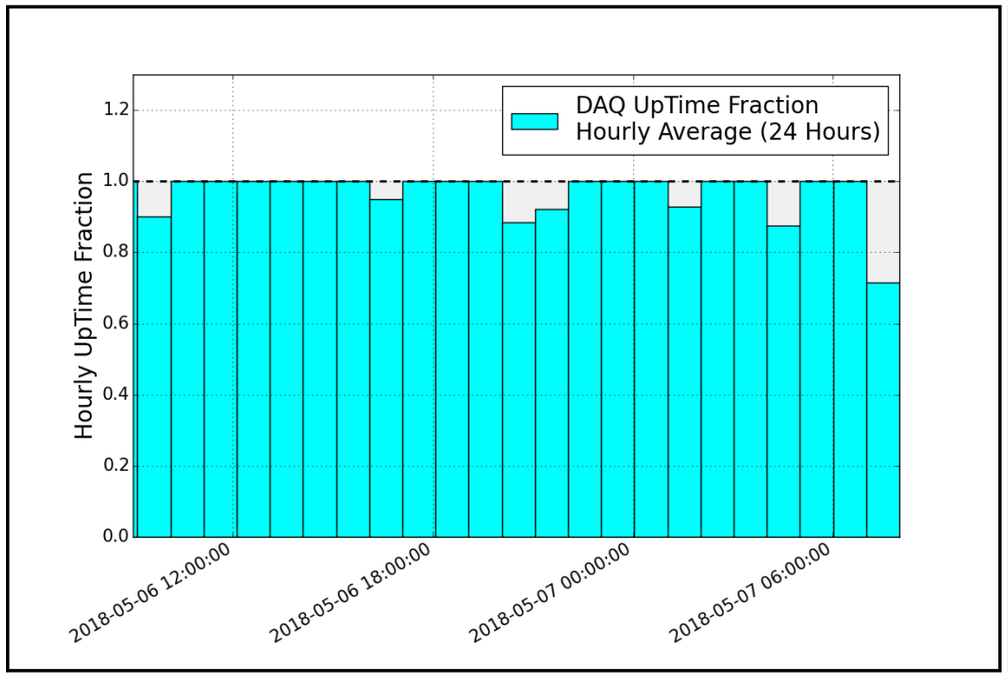
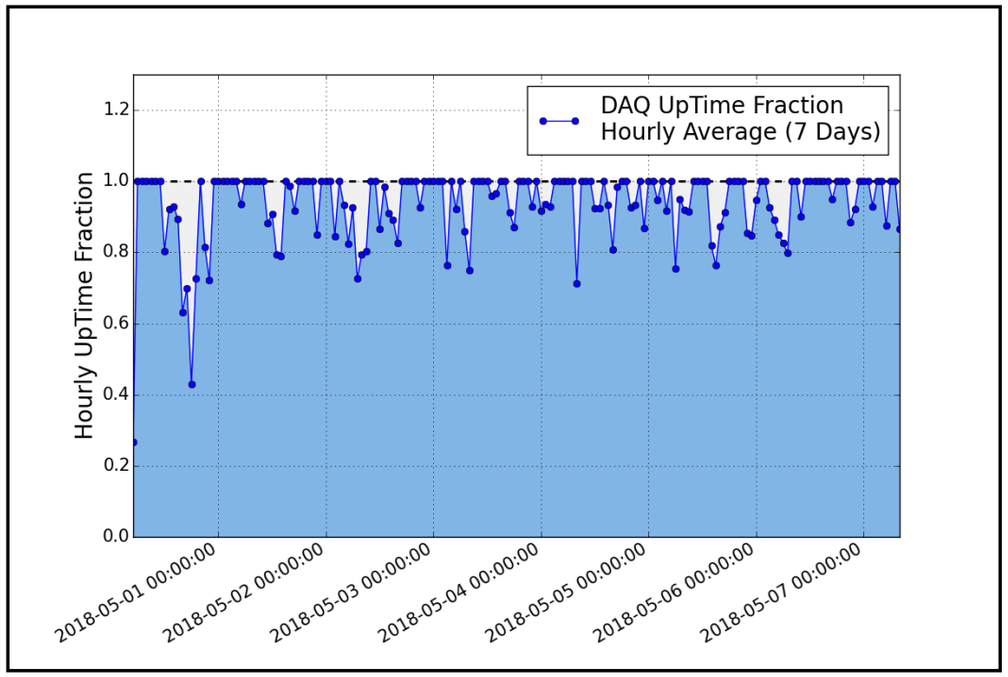
Beam Statistics/DAQ Uptime



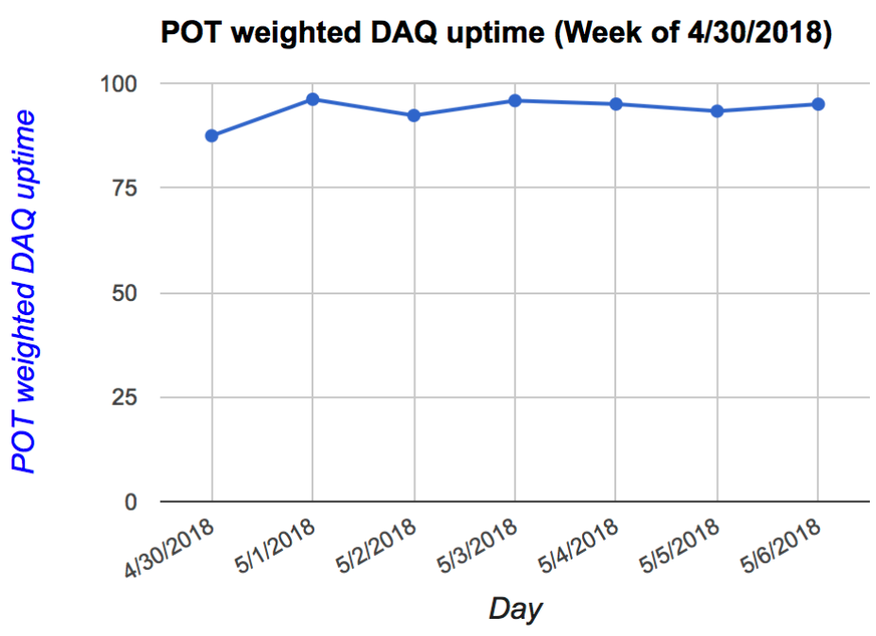
DAQ UpTime (Hourly, Last 24 Hours)

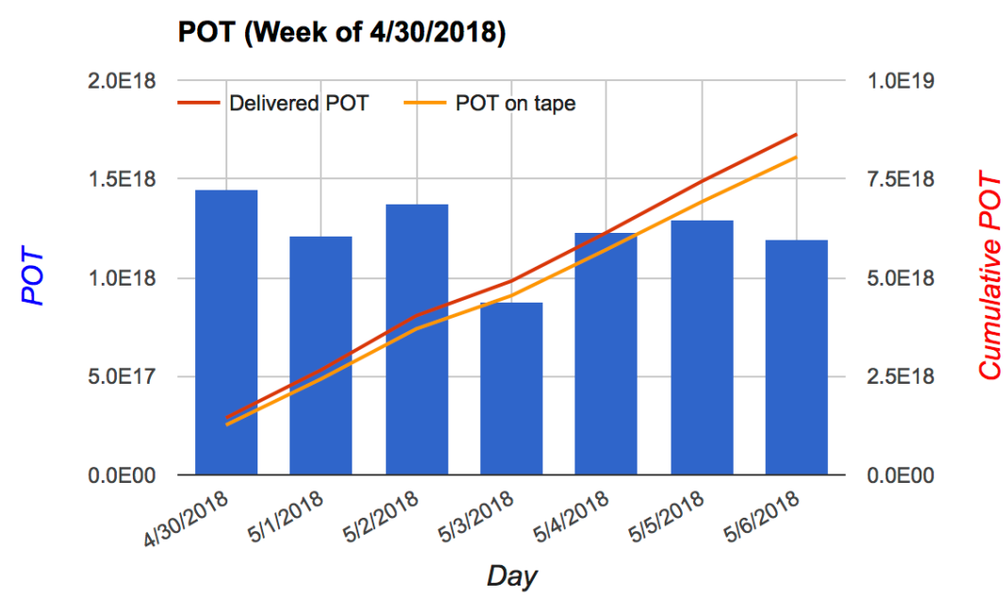


DAQ UpTime (Hourly, Past Week)

POT Weighted DAQ Uptime %: 93.3%

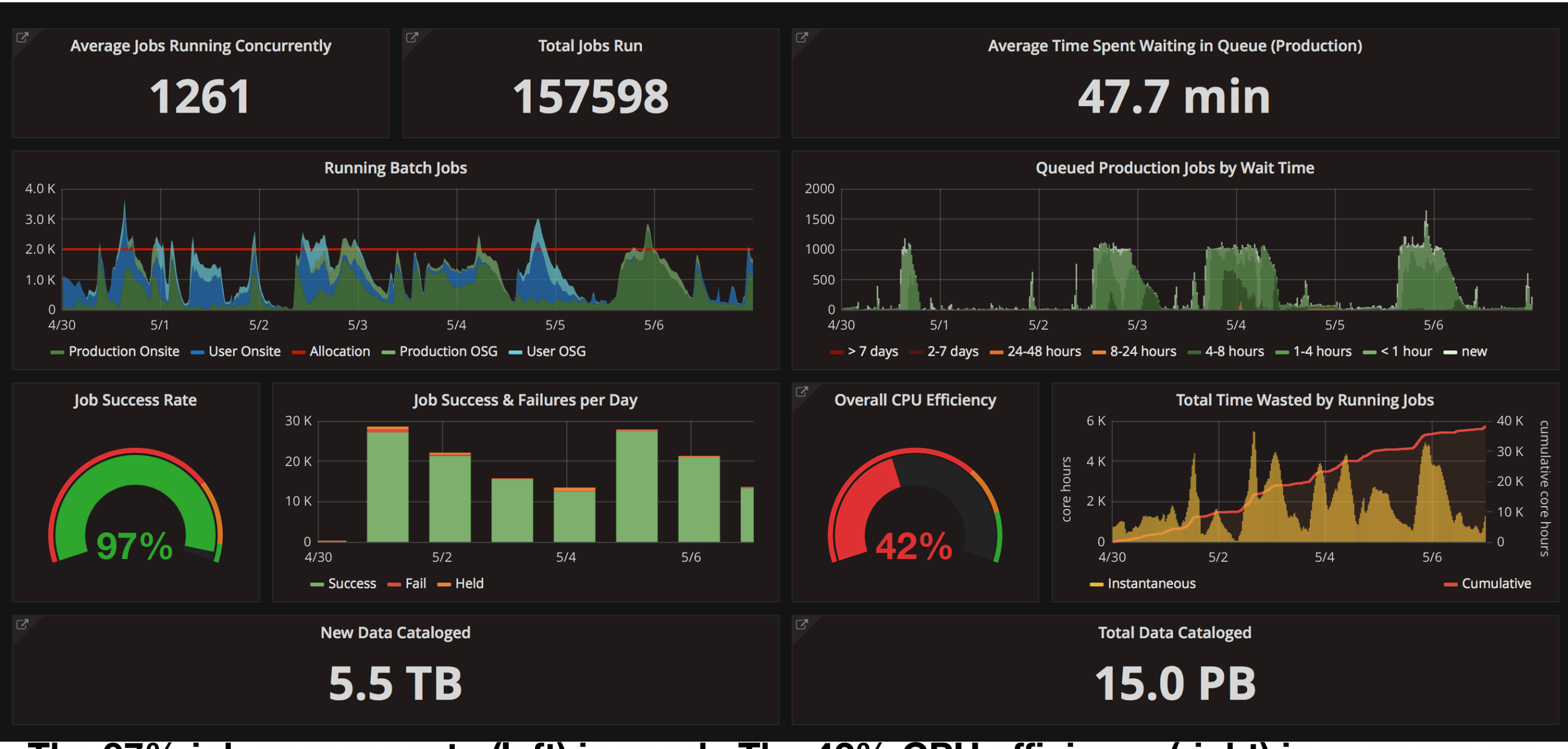
POT Delivered: 8.64e18





POT On Tape: 8.06e18

Computing Summary



The 97% job success rate (left) is good. The 42% CPU efficiency (right) is poor; we are reviewing performance and reaching out to analyzers with reminders on computing best practices.

Readout Instabilities

Starting Monday, a Readout crate experienced an increased rate of failure.

This explains the low DAQ uptime on Monday.

Lowering the off-beam trigger rate to 7 Hz made the crashes less frequent.

We reverted the off-beam trigger rate to 16 Hz on Thursday. We are currently running more stably, but the issue is not fully addressed and is presently under investigation.

Fluctuations in TPC HV

Last Thursday evening, there was evidence of increased noise in the TPC due to drift HV instabilities. These instabilities were orders of magnitude less than what MicroBooNE experienced during January 2017.

There was a possible correlation with increased humidity in the detector hall. We eliminated the presence of ice and water near one of the HV feedthroughs to the TPC. Since then, we have been running without problems.

Data taking was not impacted during this episode.