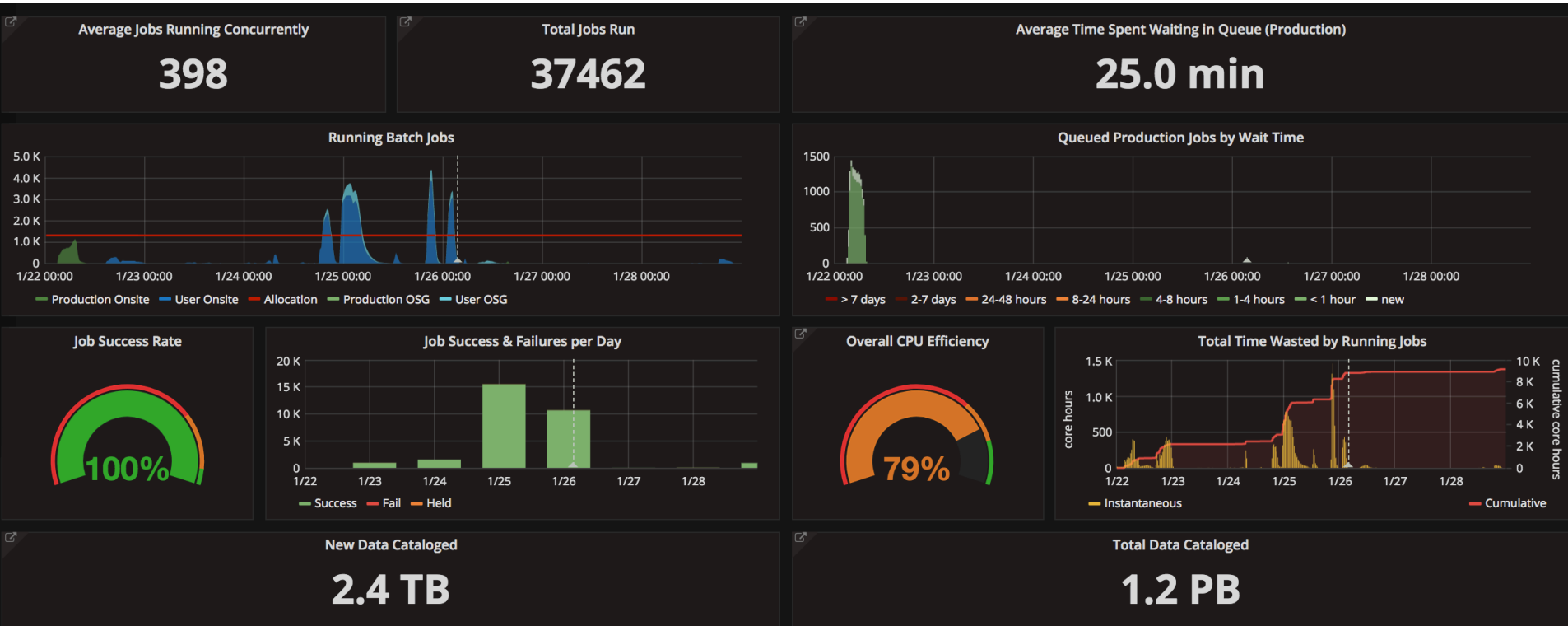


Muon $g-2$ AEM Update

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Computing Update

- combination of data processing/reprocessing/MC production



Experiment update week of 1/22

- Inflector (magnet to inject beam into ring)
 - re-commissioned for a higher max current of 2850 A
- Kicker and Quads (Injection systems to put/keep muons on proper orbit in ring)
 - kicker pulse shape studies aiming at improving peak strength and width of plateau
 - quad scraping studies (step and time) to improve CBO amplitude
- Calorimeter (measure decay positrons from muons)
 - Operating 24 / 24 calorimeters.
- Tracker (measures spatial profile of decay positrons)
 - Operating 16 / 26 modules.
- Trolley (Maps the magnetic field when the muon beam is off)
 - Taking field maps
 - Re-aligning garage for a smoother parking experience.
- Surface coils (Toll to smoothen out magnetic field, and vertically align beam)
 - Scans of various magnetic field multipoles
- Plunging probe (Absolute calibration of magnetic field)
 - Installed last Thursday
 - It was the last piece of equipment to be installed
- Beam Tuning (An iterative procedure optimizing storage fraction)
 - x/x' , y/y' , and final focus scans on the inflector entrance

Main focus week of 1/29

- Cryo pump commissioning
- Clock blinding
- Plunging probe and trolley cross-calibration
- More iterations on beam, injection, and detector tuning
- Another 16 bunch test
 - 40 trains of 16 bunches per super-cycle
- A production test (48 h)
 - exercise all systems, collect statistics, measure performance
 - inform final weeks of tweaks
- Switching to production in early/mid February