Jobs Buster

Sergey Padolski (BNL)

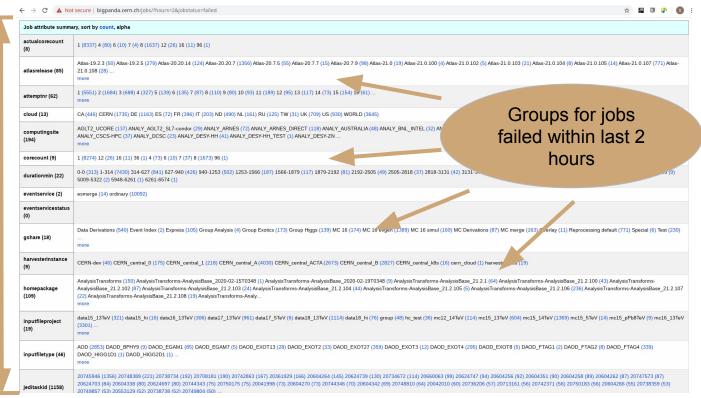
On behalf of the operational-intelligence@cern.ch community

Motivation

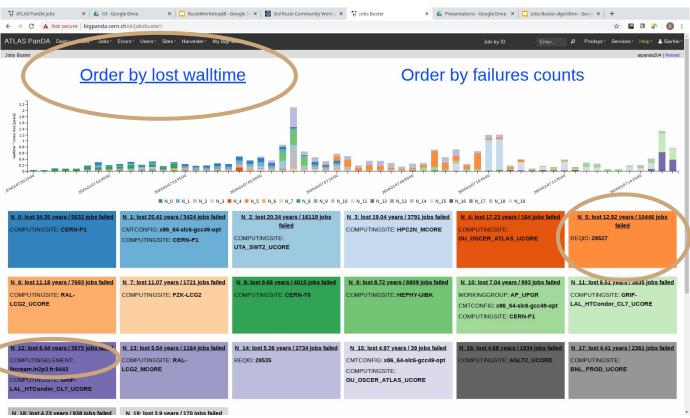
- Impressive numbers and facts about scale and FTEs of the current operational efforts are in the Federica Legger talk
- How can we spot problems automatically, using if-else, ML, OI,...?
- <u>Automatically</u> is the point

BigPanda Monitor (in Atlas)

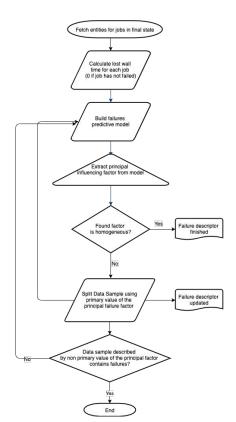
31 features



Jobs buster

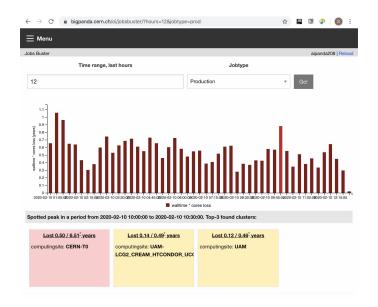


How it works

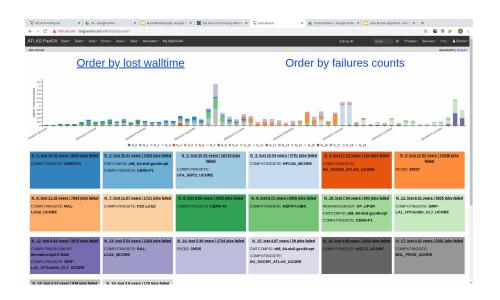


Step 1: Fetched 20424 failed and 145546 finished jobs Build failure (wall time loss) predictive model using both successful and failed statistics Principle factor at this step is Pilot Version. One value ("Unknown") is responsible for 150 failures. No successful jobs with this value Repeat procedure Failure spot #1 has found. We Select jobs with Pilot Version ≠ "Unknown" can clearly select jobs with homogeneous failure reason

Current Status



- Problems identification within tiny windows around peaks
- No persistency / problems merge
- Stand alone prototype



- Problems identification at whole timeline
- Persistency
- A use case pushing the OpInt framework development

Plans

- Assessment of the developed prototype. Use operation shifts reports as a source of information for findings comparison
- Tune up algorithms
- Add rules formalized by humans: task is a part of request, computing element is a part of site, etc.
- Enrich feature selection with log based semantic analysis

https://bigpanda.cern.ch/oi/jobsbuster/