

Technology Investigations Update

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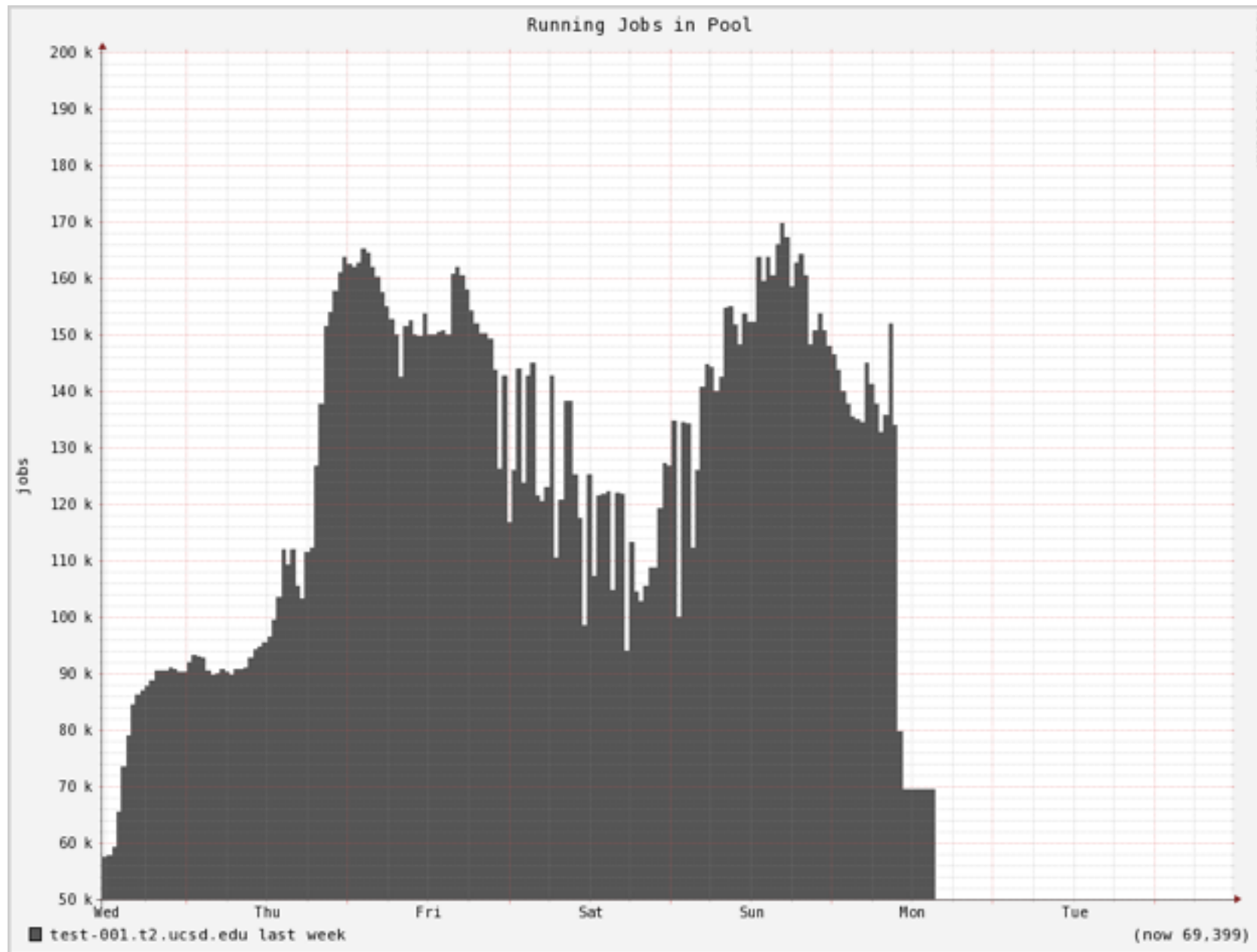
Progress since last time

- HTCondor-CE: Based on ATLAS input, sped up delivery of information service for HTCondor-CE.
 - Version 1.0 is released next week (original target: December). Version 2.0 targeted for December (original: Spring 2015).
 - Got feedback from both CMS (gFactory team) and ATLAS (AGIS).
- **External activity:** WLCG's SAMv3 monitoring framework has been released and can submit to HTCondor-CE (October 1). Pending verification of the end-to-end test results this week, GRAM will be turned off at Nebraska.
- **External activity:** 7 / 8 USCMS T2s have a HTCondor-CE in production.
- Many other HTCondor-CE developments across OSG; will defer further updates to Software, Release, and Operations.

Scalability Tests

- Prior to the OSG Review, we got a request from the OSG council to test OSG services at LHC Run-2 scale.
 - The OSG Reviewers actually emphasized this!
- Scalability work was revived @ UCSD and has been reporting under this area.
- A few results:
 - A single HTCondor schedd breaks at about 500k idle jobs. (Meets CMS target).
 - A single HTCondor schedd can be run stably until about 30k jobs. (Target=40k)
 - A single HTCondor pool can sustain 150k running jobs and peak at 170k. (Target=200k). Currently, we are hardware limited.
- We meet with HTCondor FW and CMS every-other week to discuss results.

Scale tests - last week



OASIS

- Progress on V2 has remained very slow.
- BNL is putting up an instance for USATLAS Tier-3 sites to get the software in continuous use.
- Progress on external repos has been slower-than-expected (unlike V2, it is based on an external contribution from FNAL). At current rates, I believe this will be resolved this calendar year.
- OIM improvements have been delivered from GOC.

Other Items

- Blueprint last week in Madison. Notes to follow from John Hover. Focus was primarily on VM-based services and getting input on .
- APF work between BNL and GLOW is ongoing.
- John H has requested we investigate the USATLAS tools for VM authoring for possible inclusion in OSG.
- PanDA packaging progress has been satisfactory - “ball is in their court”.
- GUMS 1.4 release scheduled for next week; checks off a WBS item.

Areas of Concern and Note

- Note: Brad Hurst left HCC, leaving GratiaWeb maintenance. We are in the process of migrating “ownership” to Software.
- Concern: Still struggling to make OASIS v2 deadlines “hard”.
 - Difficulties are similar for APF work.
- Concern: Network DB work has been silent for the two weeks. Am I just out of the loop?
- Have not had the personnel time to start XSEDE work in WBS.