Open Science Grid

OSG Production Support

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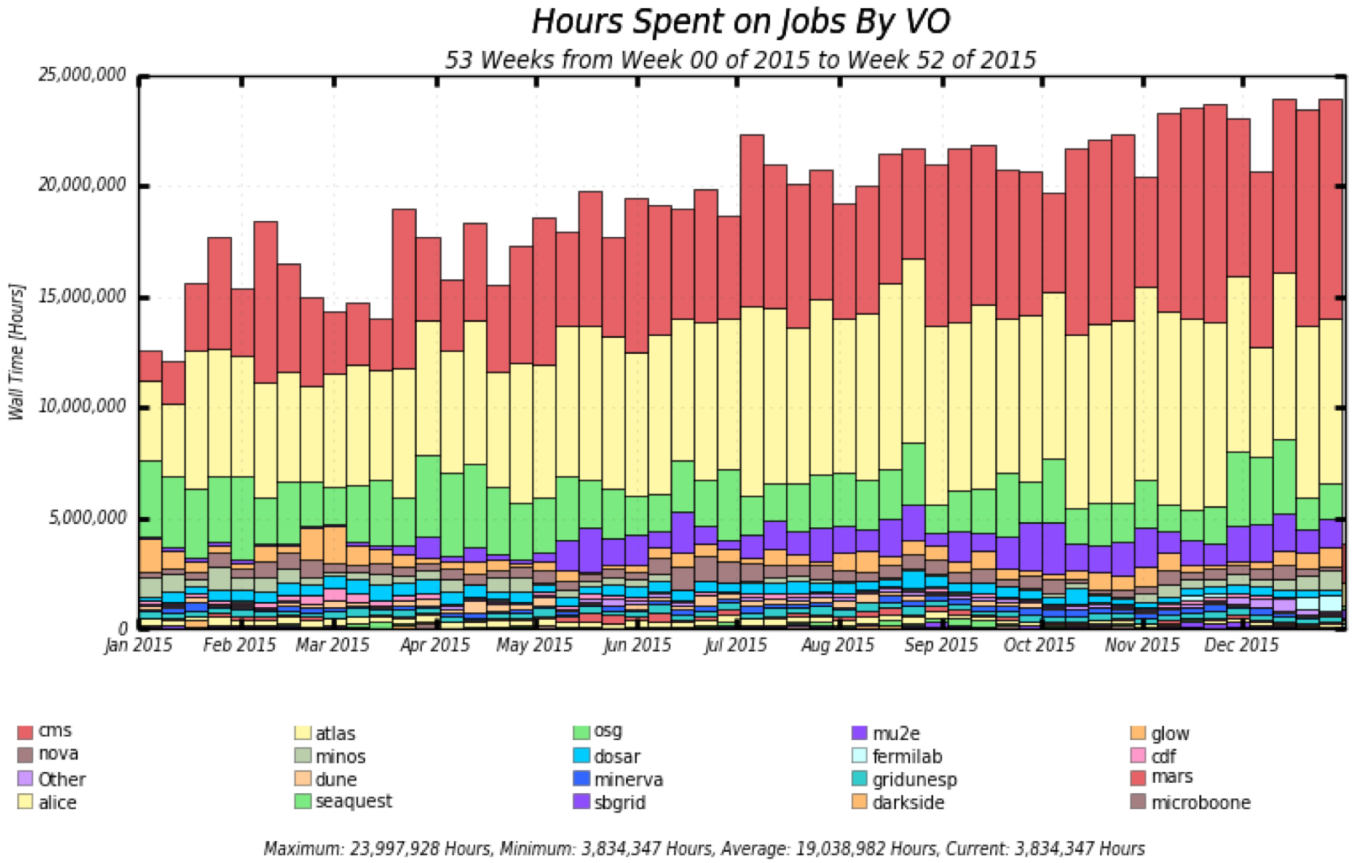
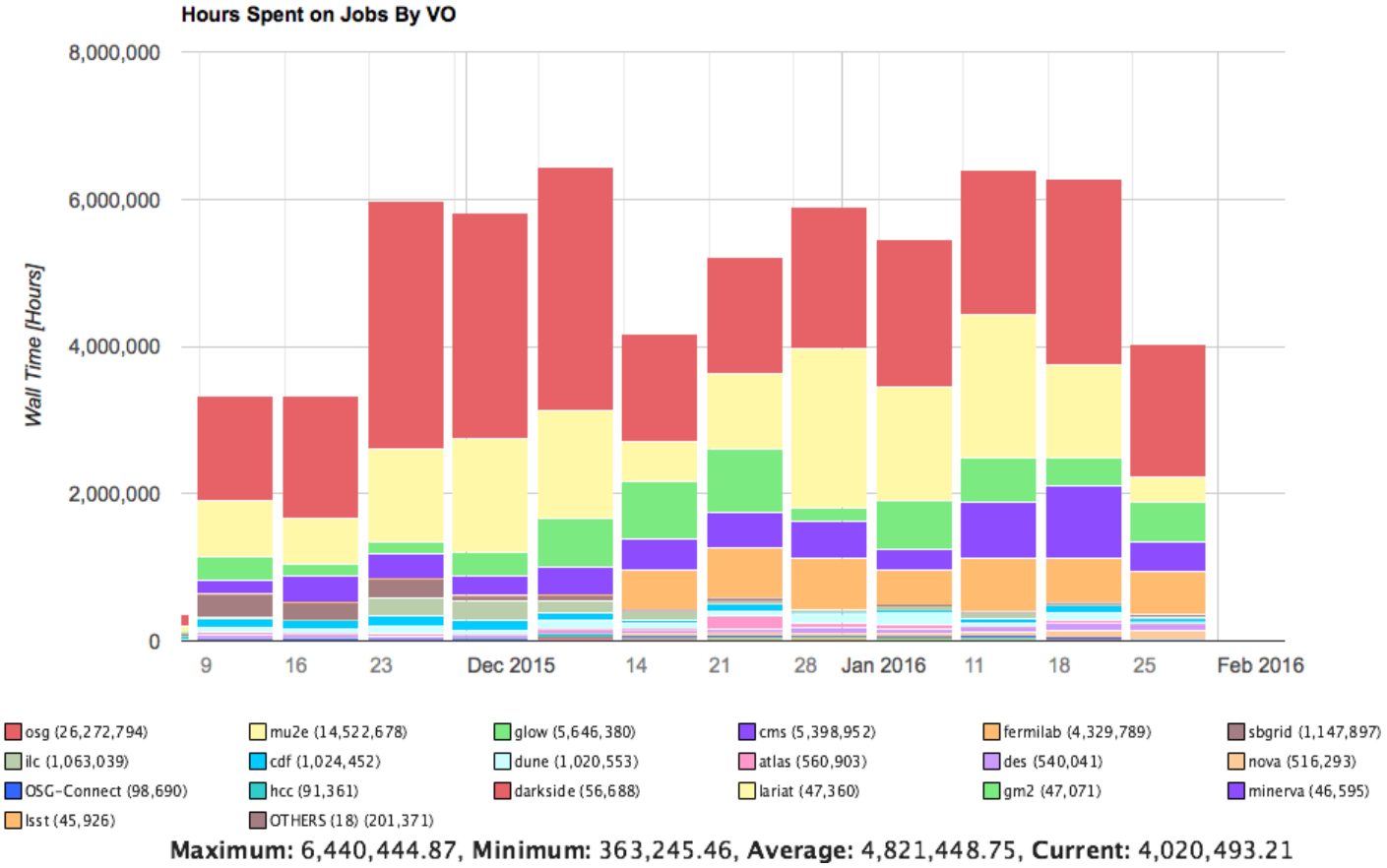
OSG Area Coordinators Call
February 3, 2016

2015 and Opportunistic Computing



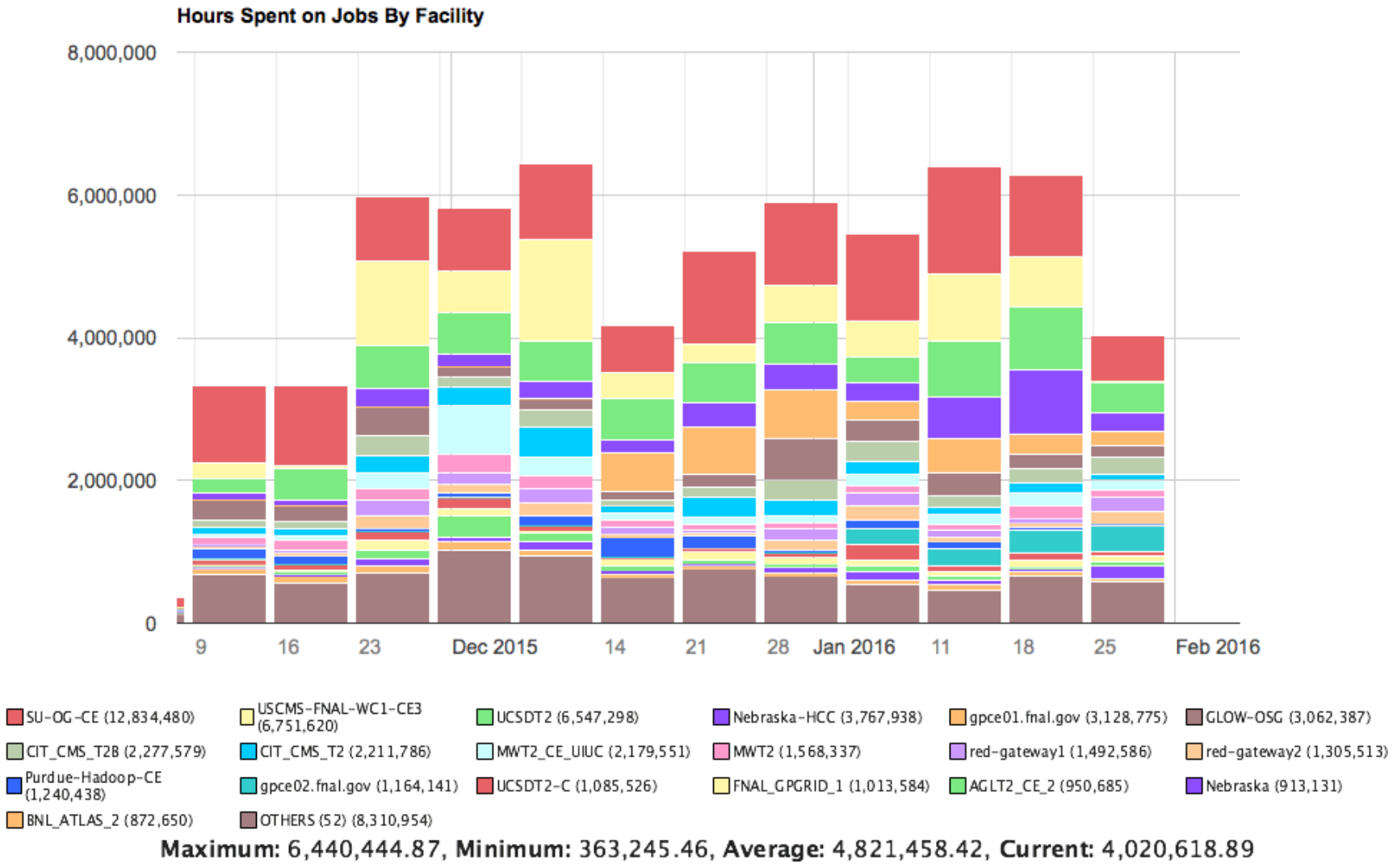
- First 1B hour year
  - 3 out of top 5 VOs were primarily opportunistic (one a new VO)
    - Those 3 alone over had **200M** opportunistic hours

Opportunistic: past 3 months

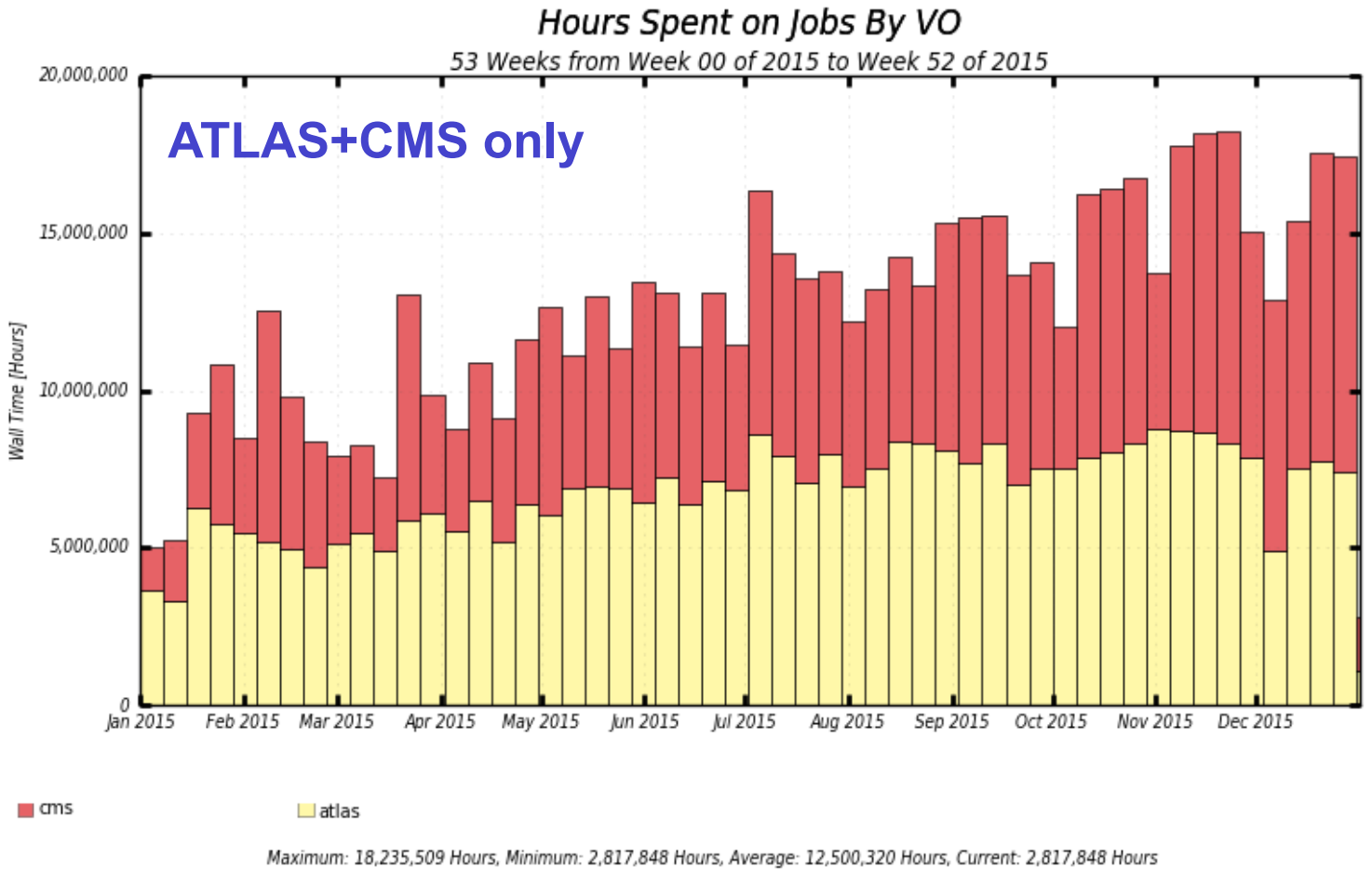


- ~60M hours (up from ~50M previous quarter)
- mu2e campaign is ramping down

Top opportunistic sites

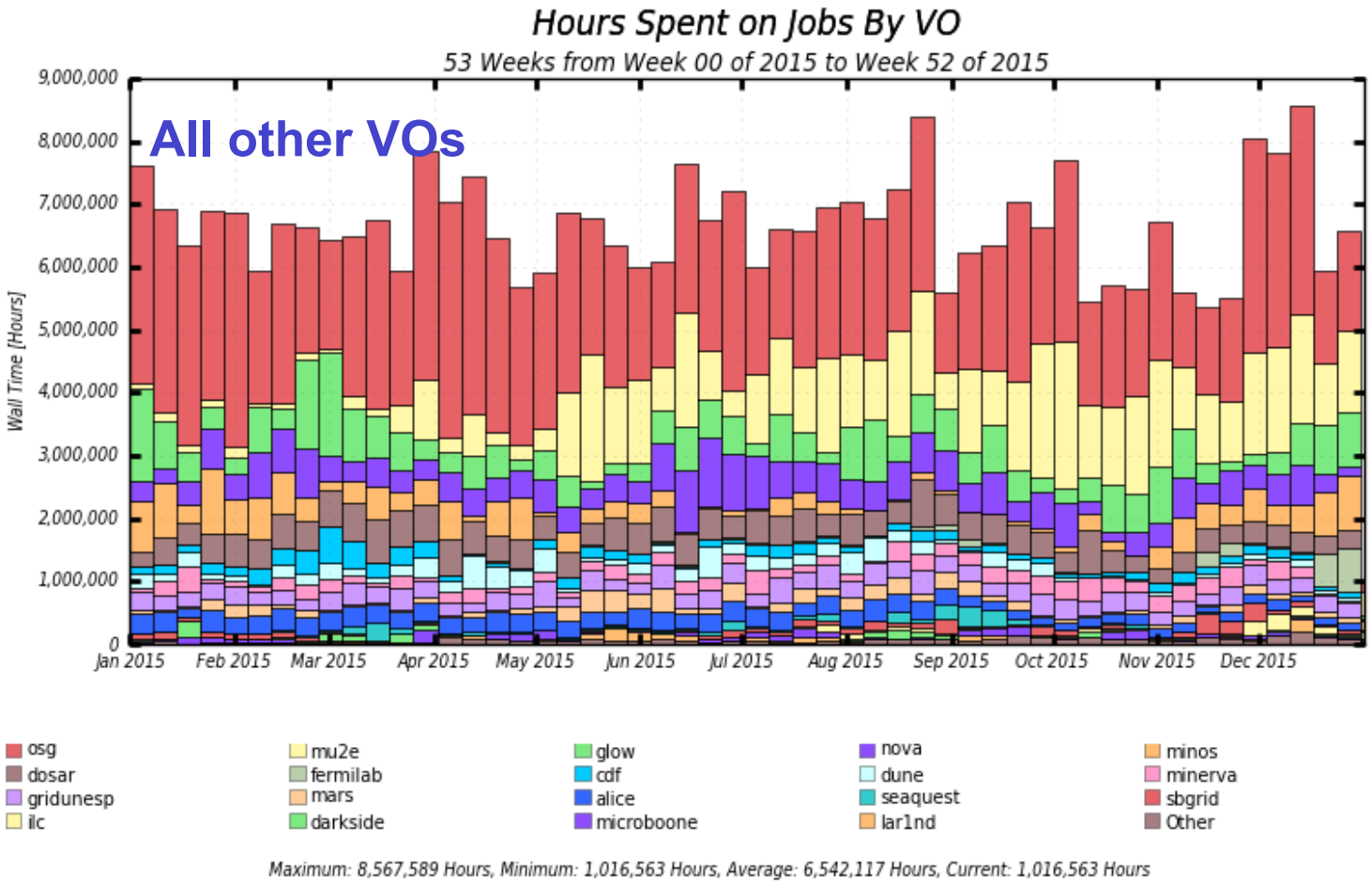


Question from Council



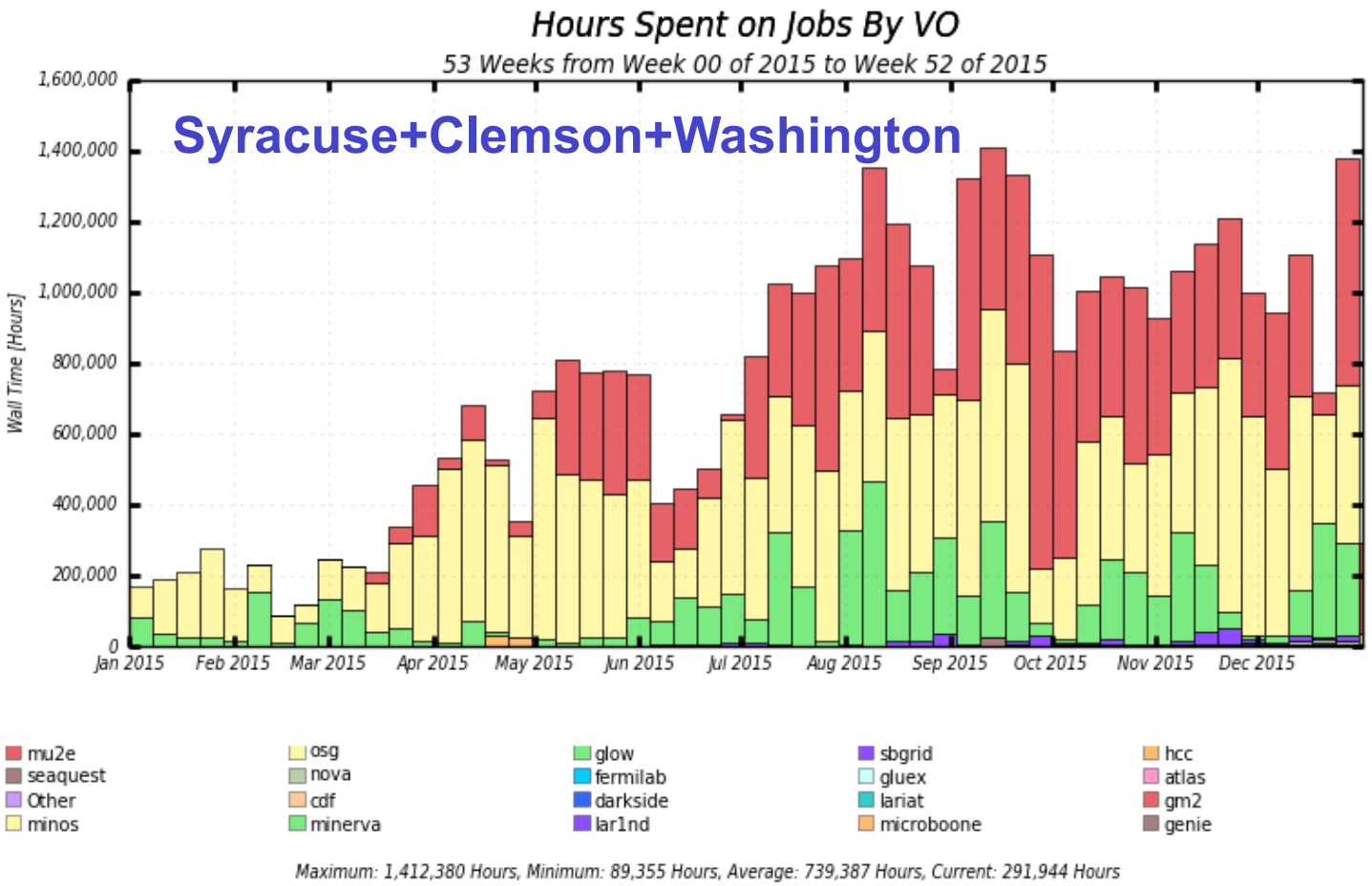
- Is increased OSG production [in 2015] due to LHC Run 2?
  - In large part…

Question from Council



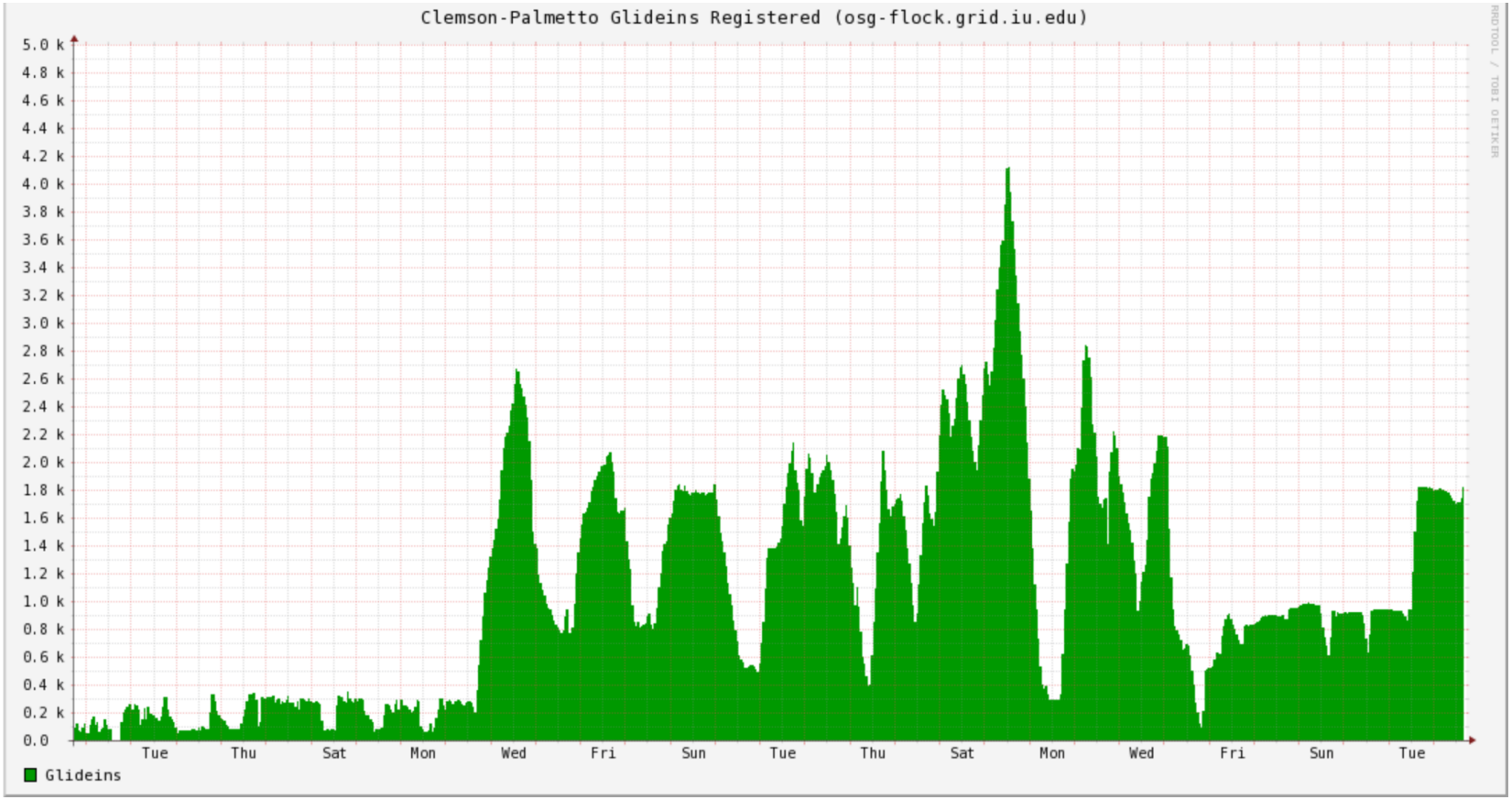
- Is increased OSG production [in 2015] due to LHC Run 2?
  - But not at anyone's expense…

Question from Council



- Is increased OSG production [in 2015] due to LHC Run 2?
  - In part thanks to increased university (non-LHC) site participation

Resources: site integration



- Clemson contributing heavily now
- Early discussions with Pitt, Utah, and Tufts

Resources: dedicated sites

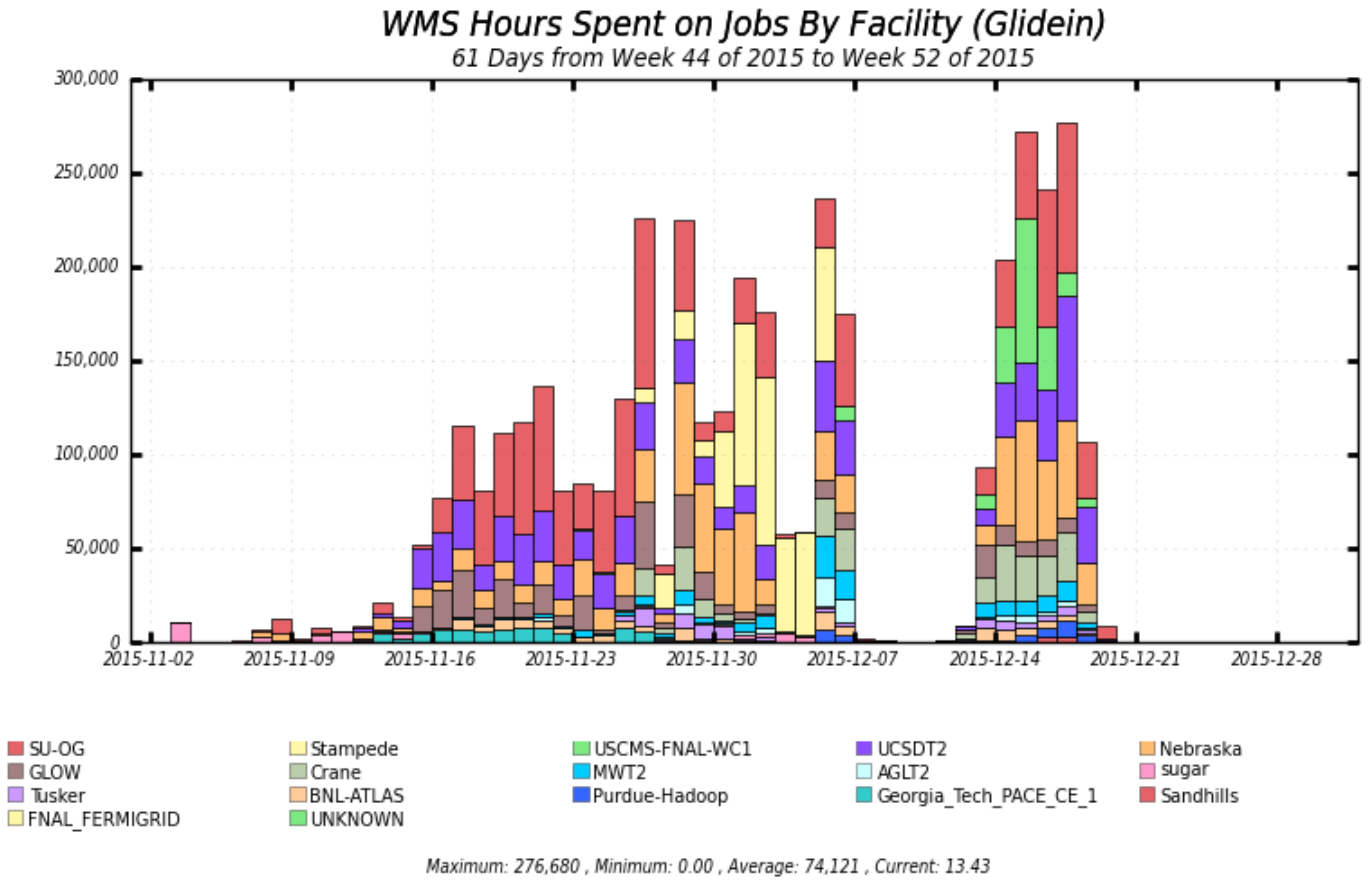
- MicroBooNE site from University of Bern integrated and in production
  - Incidentally one of the fastest site integrations we've had
- JINR site for NOvA effectively complete but not yet used in production
  - May also have GPU/Phi resources available there

Open Science Grid

Resources: HPC

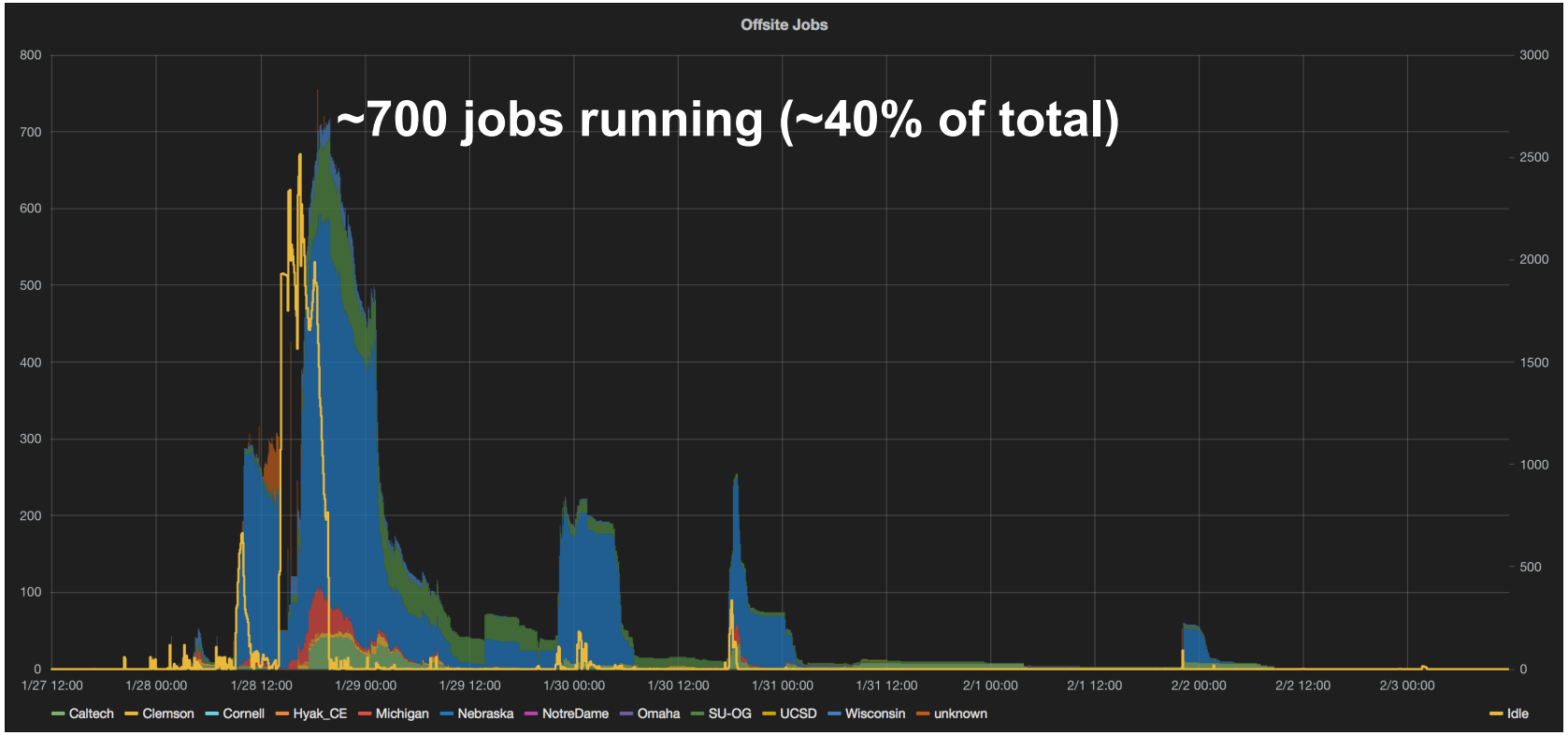
- SDSC Comet continues to be available opportunistically via UCSD T2 CEs
  - ~1.2M hours used by OSG VO users since November
- Next step is allowing allocation-based access via OSG infrastructure
  - Necessary gWMS changes (tracking allocations) pushed through and available in March update
  - Effectively already used for LIGO jobs running at Stampede
  - Will test with Comet as well

LIGO



- Made considerable use of OSG resources towards the end of the year
- 4.5M CPU hours (mostly opportunistic)
  - Expect more use starting in the coming days

DES[-GW]



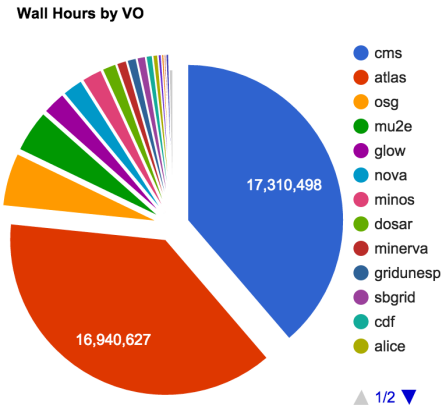
- Optical followup of any potential LIGO signal using DES data
  - Requires short turnaround processing
- Demonstrated feasibility on OSG (might have been real processing??)

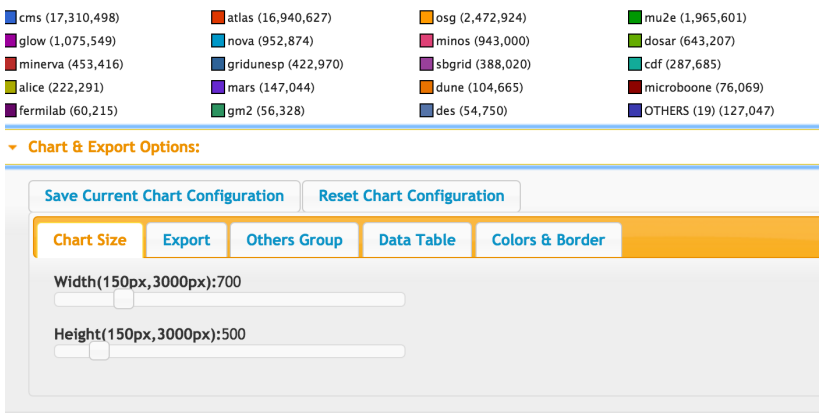
Community engagements

- IceCube
  - Currently running via GLOW both on-campus at Wisconsin and opportunistically on OSG sites
  - Would like to also run on dedicated European resources
  - Working with Miron et al to implement a solution
- SNO+
  - Arranging meeting
- Harvard Medical School
  - Interest in OSG being part of their standard computing toolkit
  - Frank, Rob G. and myself will be there Friday to make the appropriate pitch

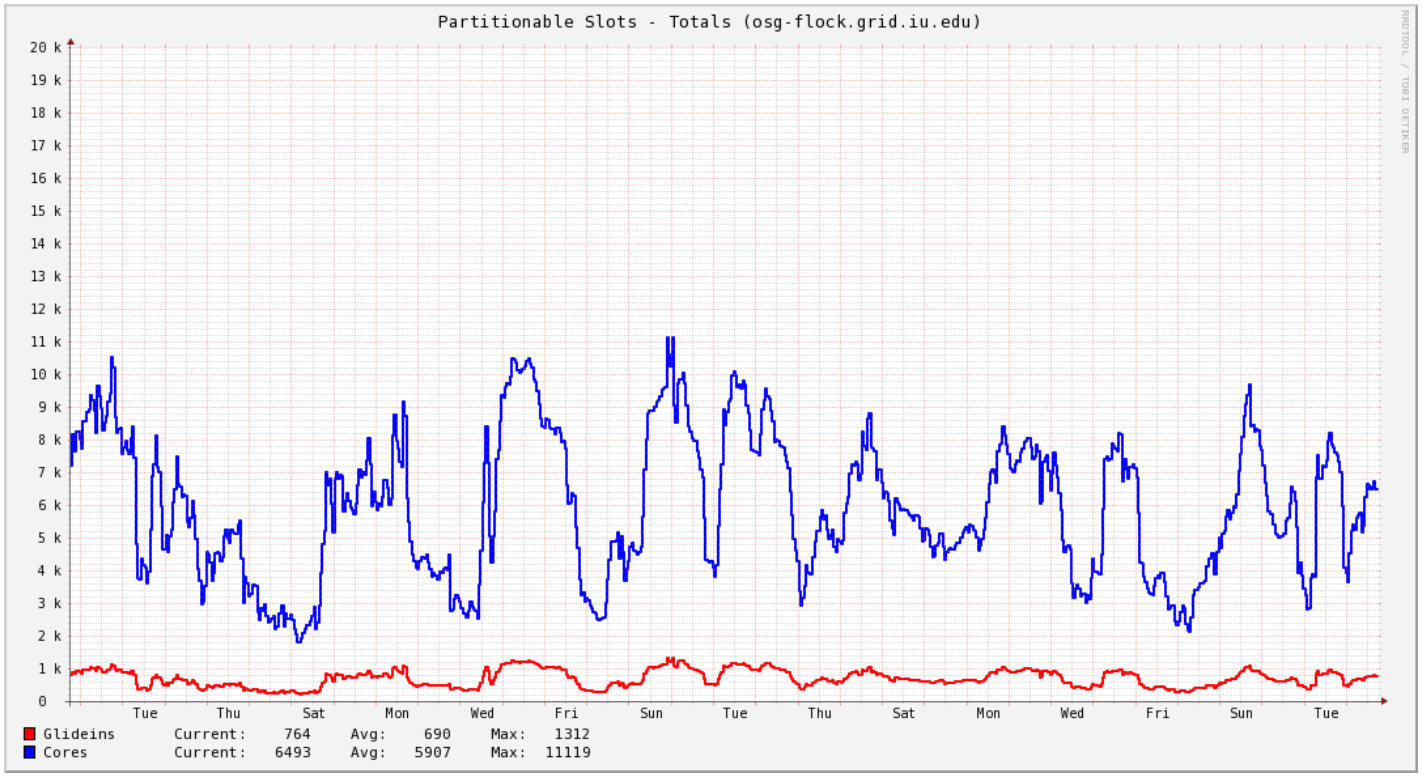
Accounting

- A version of gratiaweb with google charts available
  - Feedback is still welcome
  - In particular: should these be pushed to production and, if so, should old versions of these plots be retained?
- Accessible at gratiaweb ITB instance
  - http://gratiaweb-itb.grid.iu.edu
- Accounting **blueprint meeting** scheduled for February 23 at Fermilab
  - Please attend if you can





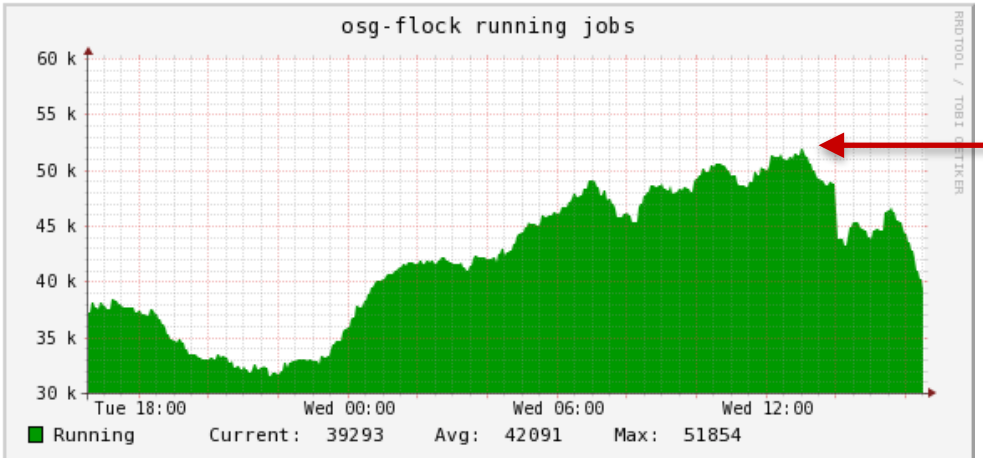
Multicore



- OSG VO multicore jobs now going to a variety of sites
  - ~6k cores on average for the past month
- Monitoring setup by Mats shows most are 8 core glideins

Other items

- Next NOvA campaign scheduled to start in ~1 week
  - Massive push towards Neutrino 2016
  - OSG resources should help them cover shortfall in resources
    - Working with NOvA physicists on this
- Keeping an eye on OSG VO flock
  - Accomplished peak of 51533 running jobs in December including two sleeper pools (~40k real jobs)
  - Would like to demonstrate 60k running jobs (with sleep pools) next.



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