



Open Science Grid

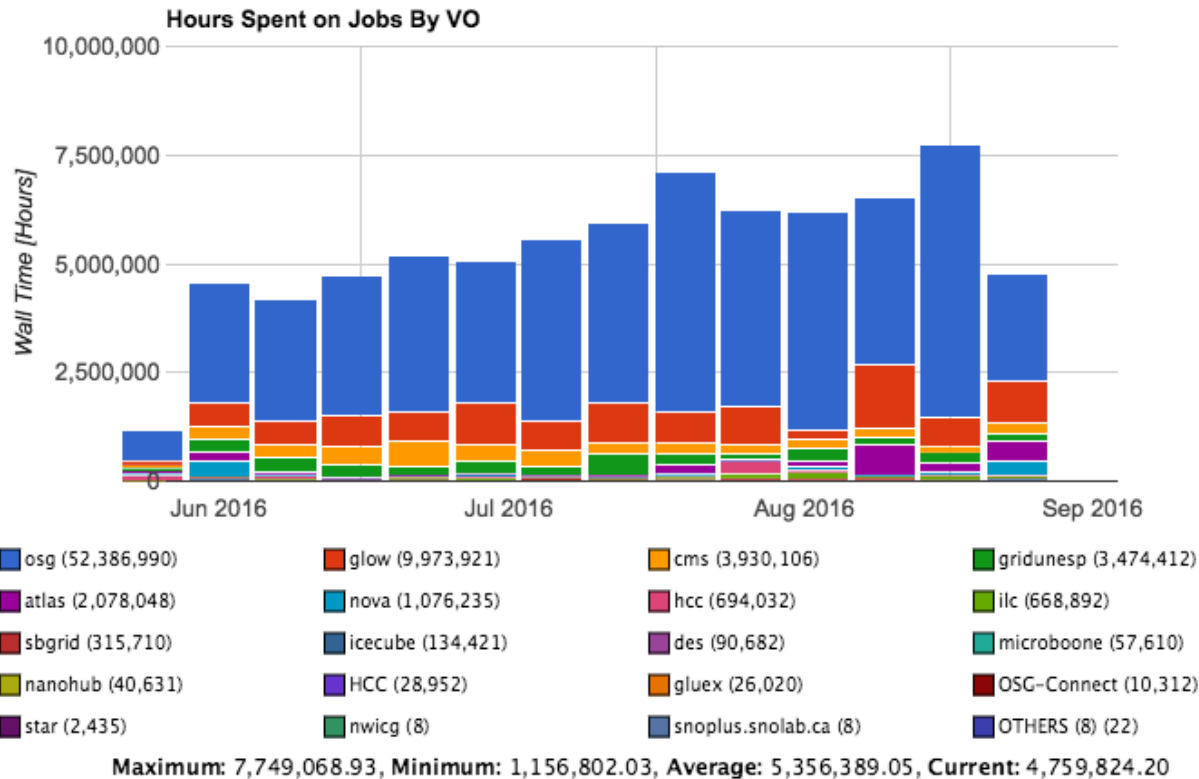
# Production Support Report

Ken Herner

14 Sep 2016



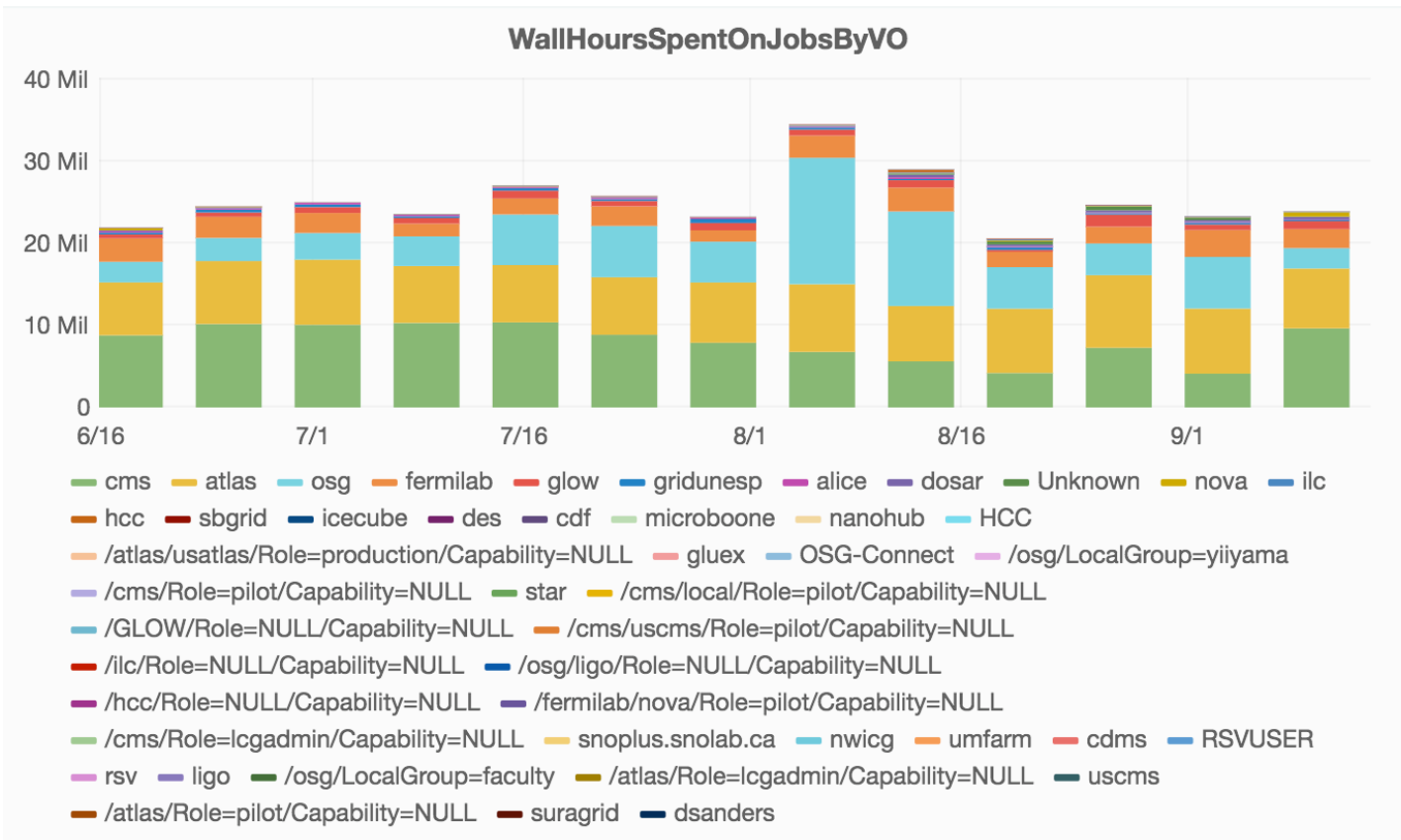
# Opportunistic jobs: past 90 days



- Nearly 75M past 90 days (58M hours from 4/26 – 7/26)
- Total does not include all Fermilab VO jobs (accounting issue). Fermilab experiments totaled about 3.1M hours in this period outside of FNAL GPGGrid (nearly all from NOvA or Mu2e)



# Similar, but from GRACC...

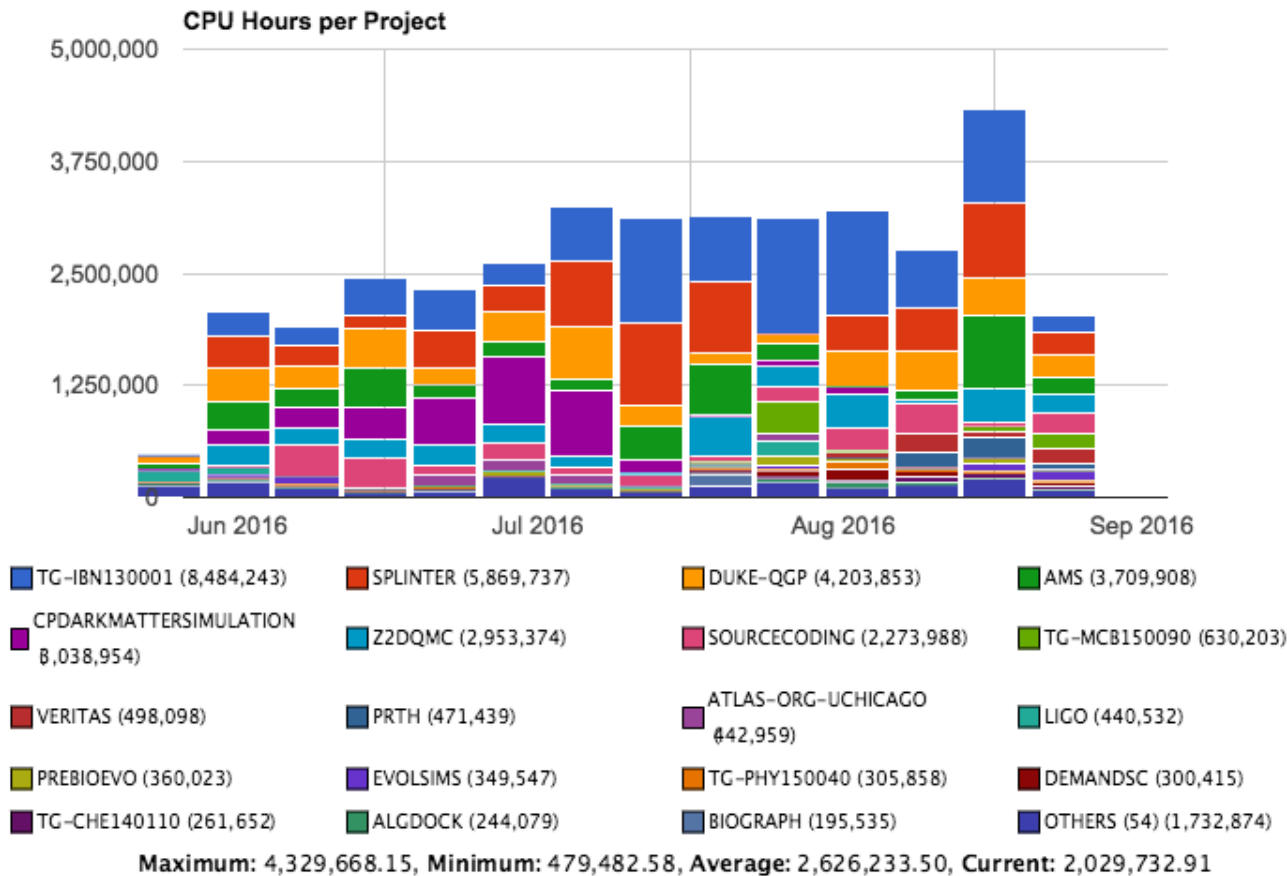


**This is not opportunistic only though**

- Total does not include all Fermilab VO jobs (accounting issue)
- Fermilab experiments totaled about 3.1M hours in this period outside of FNAL GPGrid (nearly all from NOvA or Mu2e)

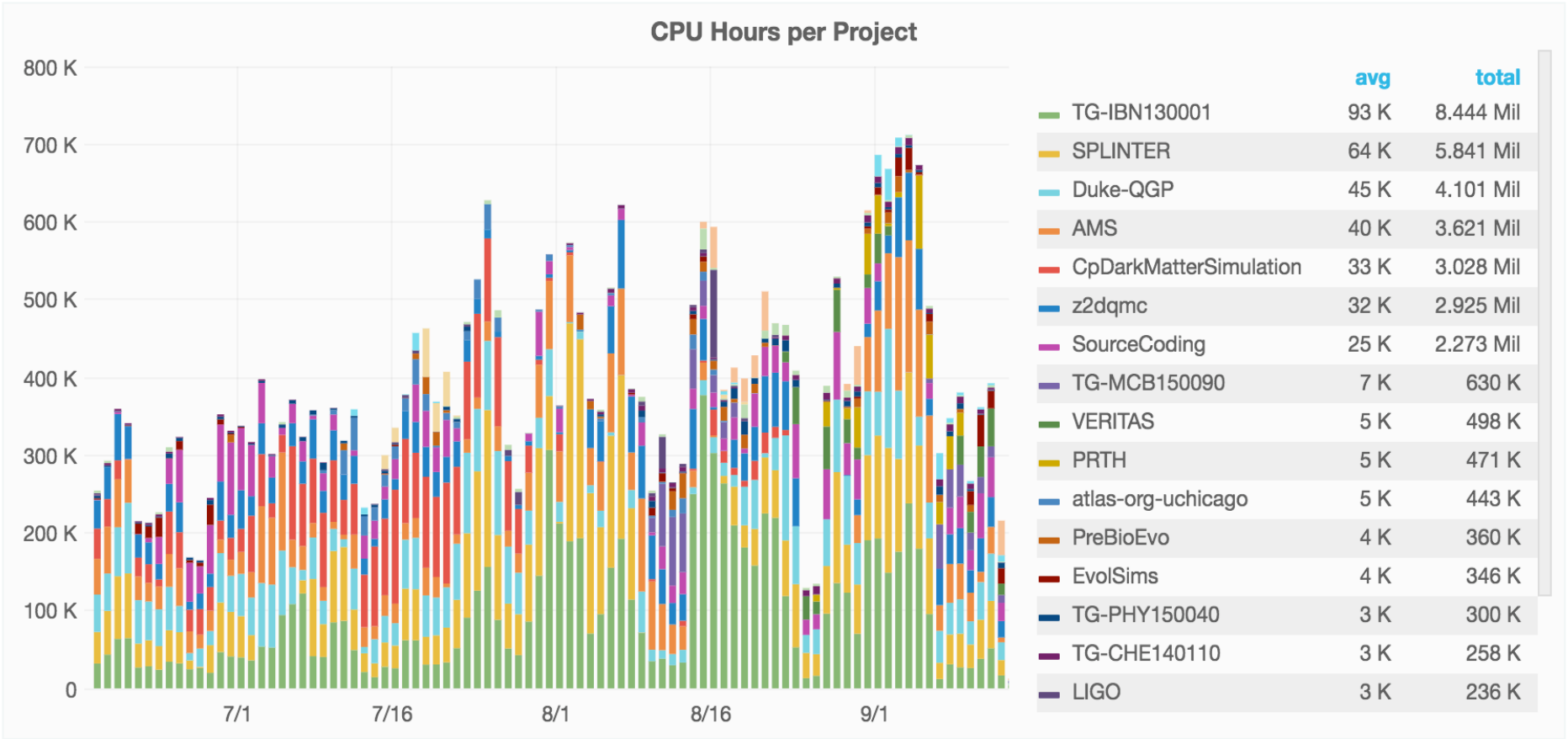


# OSG VO at the project level



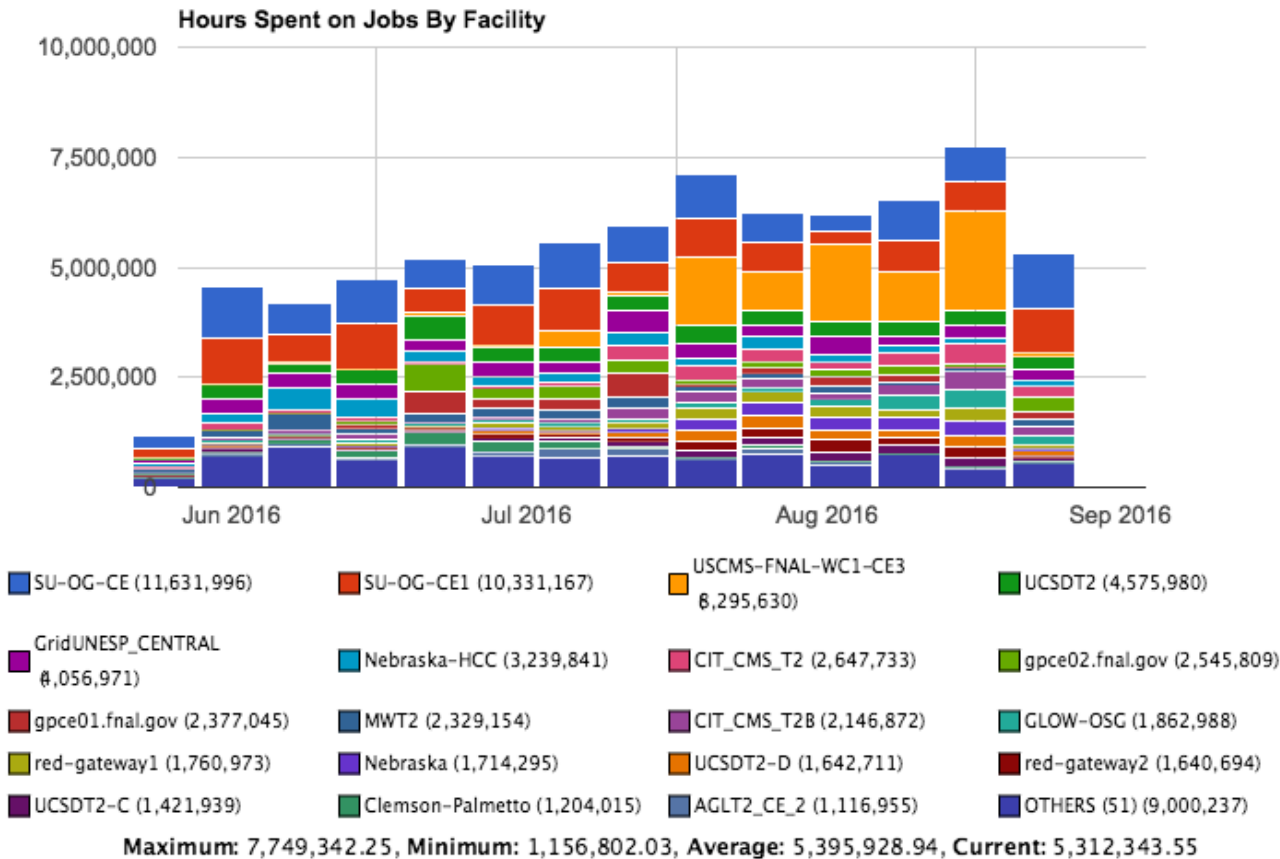


# OSG VO at the project level





# Top opportunistic sites



- Larger contribution from FNAL GPGGrid in Jul/Aug (low pressure from FIFE)
- Syracuse still very strong

# Recent progress with new sites

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- Stanford
  - Pilots working, jobs going through (some plot of hours)
  - Working to get multicore pilots set up now
- CENF (Neutrino Platform at CERN)
  - Basic HTCondor installation set up
  - Intended for (proto)DUNE
  - Now installing HTCondor-CE
- JINR
  - Two existing CREAM CEs; using them for WLCG jobs
  - Now setting up third (HTCondor) CE per OSG instructions
    - Will initially be limited to NOvA and STAR



# HPC

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- MINOS and CMS still attempting to run at Stampede
  - MINOS still seeing authentication issues (project # or misconfigured allocation?)
  - Authentication issue for CMS seems to be fixed, on to new (rare) globus error
- Opportunistic running on Comet continues
  - still not yet with allocations
- Hopeful to get Stanford GPU cluster up and running in the semi-near future (get rest of site working first)





# GPUs

- Tusker (HCC) has nodes with GPUs on OSG
  - accessible via dedicated factory entry
- Currently in use by IceCube (GLOW) and OSG VOs
- Would like to make this an option for all VOs that want to use GPUs opportunistically
  - Using OSG VO configuration as template
  - Enabled Fermilab VO in factory
    - Still need a frontend change at FNAL; will assist personally this week
- We should also express openness to sites that are willing to share GPUs
  - e.g., new BNL institutional cluster (non-ATLAS) with ~200 GPUs, Stanford



# FIFE Updates

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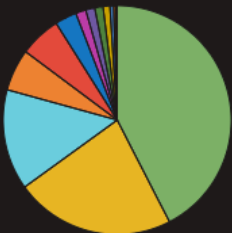
- NOvA's now running again at OSC:  
<https://ticket.opensciencegrid.org/30192>
- NOvA testing StashCache over CVMFS (requires CVMFS 2.2)
  - Focusing on FZU (Prague) in the short term
  - Several sites have upgraded their installations since last time. Should be able to run a more meaningful test soon.
- (not technically FIFE but uses a lot of the tools) DES StashCache instance now deployed
  - Probably won't be widely adopted until FNAL is on CVMFS 2.2 (working on that!)



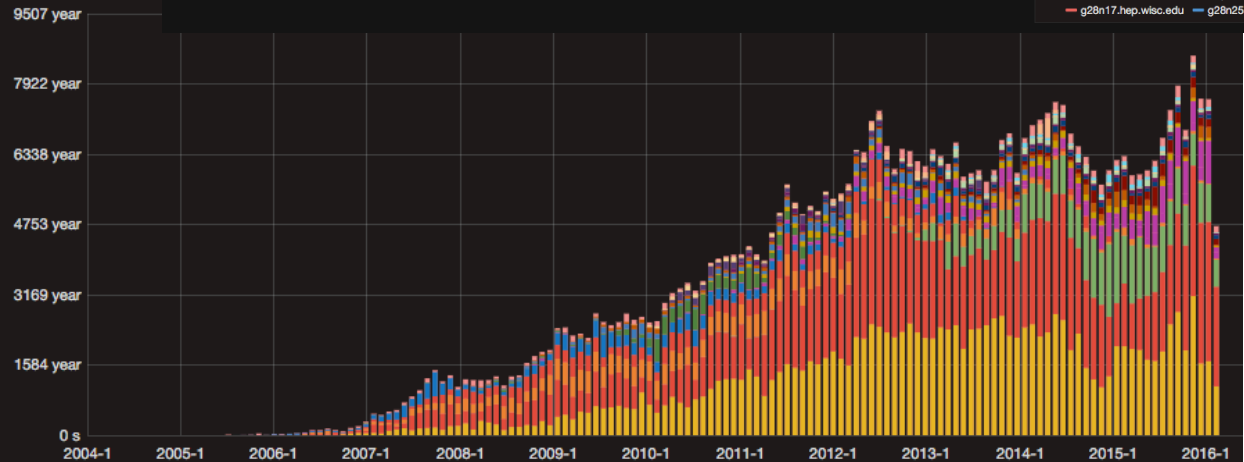
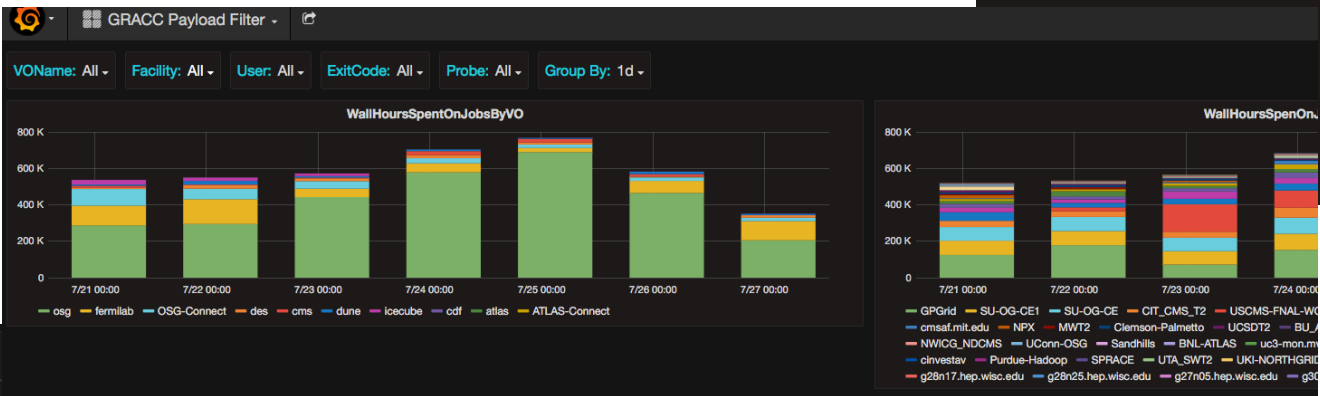
# Monitoring/GRACC

- Good progress on GRACC
- Check out [gracc.opensciencegrid.org](http://gracc.opensciencegrid.org)

WallHoursByVO



osg	4288517
GLOW	2287670
fermilab	1436956
Duke-Connect	597488
OSG-Connect	590048
ATLAS-Connect	311429
cms	146765
icecube	130604
dune	118722
des	97430
SBBGrid	52409
cdf	33963
ligo	16477
atlas	315
UChicago-Connect	299
bitp	120





# Plans

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- Continue efforts on new sites (LSJU, JINR, CENF, already mentioned)
- Need to also follow up on Utah (BOSCO proxy issue) and Colorado; Rutgers may also come into play later
- Continue to push HPC (e.g. Stampede) and GPU (Nebraska can be a good template)
- Fix that Fermilab Opportunistic accounting issue...