Open Science Grid

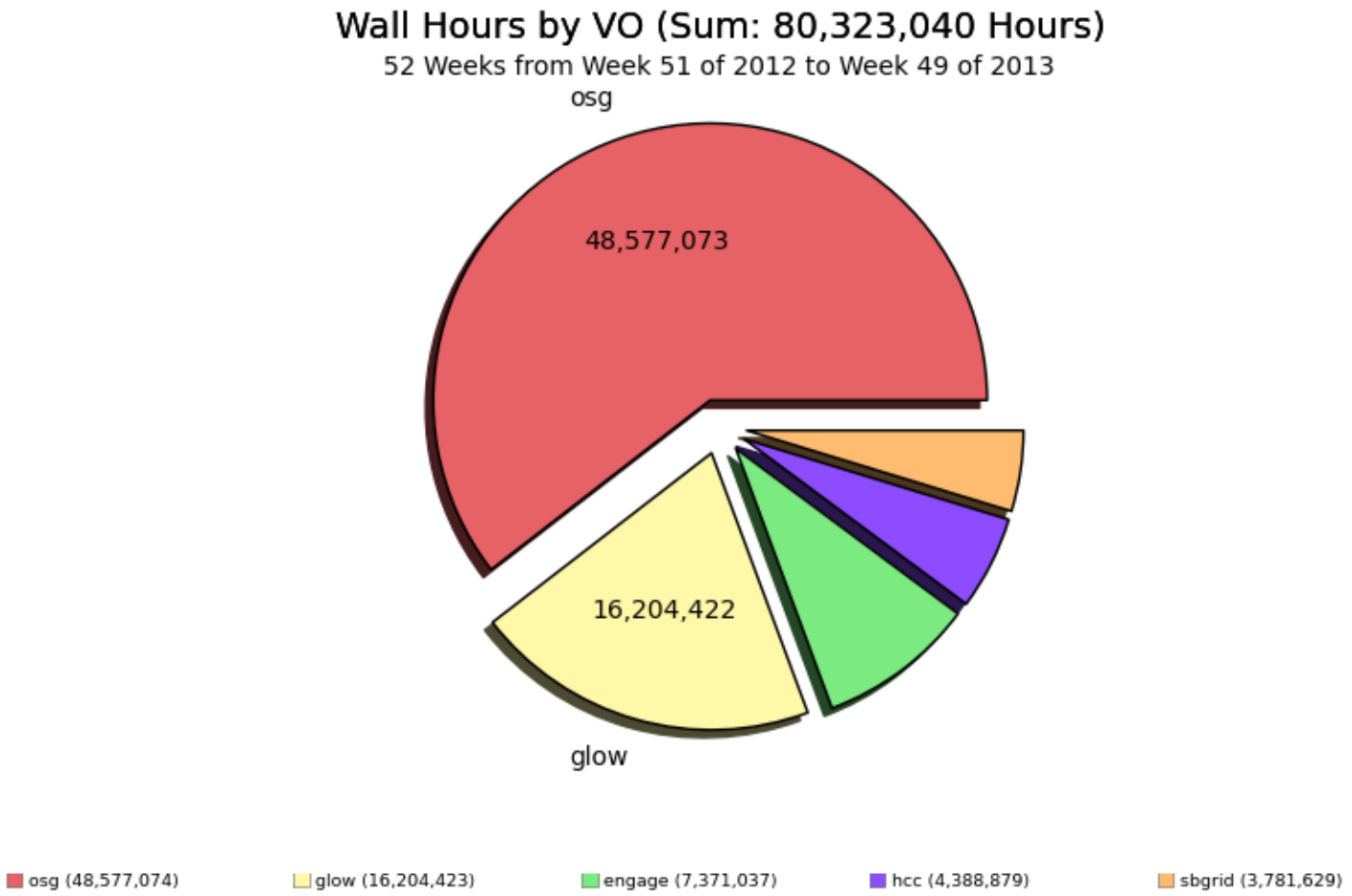
OSG User Support Update

OSG Area Coordinators Call

December 11, 2013

Chander Sehgal - FNAL

Overall Opportunistic Usage Last 12 months



Key Initiatives

1. **Effective service delivery for XSEDE Users of OSG – proceeding well**
2. **Enabling new researchers, who contact OSG directly, to access DHTC – proceeding OK (need more customers)**
3. **Support backend integration of Galaxy to OSG; focus is to assist IU staff with the data handling component – new initiative**
4. **Review Intensity Frontier Data Handling plan and provide inputs for FIFE on how to improve and leverage other OSG initiatives – new initiative**
5. **More opportunistic access; develop a plan for 2014 to increase sites and cycles accessible to the osg vo – new initiative**

What transformational changes do we need to make to achieve a 50% increase in 2014 for US researchers using DHTC?

Researcher Enabled in 2013
OSG-XD

Project Name	PI	University	Science Domain	Hours
TG-ATM130009	Phillip Anderson	University of Texas at Dallas	Atmospheric Sciences	51,221
TG-ATM130015	Phillip Anderson	University of Texas at Dallas	Atmospheric Sciences	77,168
TG-OCE130029	Yvonne Chan	University of Hawaii, Manoa	Ocean Sciences	15,781
TG-IRI130016	Joseph Cohen	University of Massachusetts, Boston	Information, Robotics, and Intelligent Systems	70,536
TG-MCB100109	Lillian Chong	University of Pittsburgh	Molecular Biosciences	174,010
TG-CCR120041	Luca Clementi	San Diego Supercomputer Center	Computer and Computation Research	12
TG-DMR130036	Emanuel Gull	University of Michigan	Materials Research	196,835
TG-DMR120085	Emanuel Gull	University of Michigan	Condensed Matter Physics	60,624
TG-MCB090163	Michael Hagan	Brandeis University	Biophysics	16,116
TG-MCB090174	Shantenu Jha	Rutgers, the State University of New Jersey	Molecular Biosciences	1,223
TG-IBN130001	Donald Krieger	University of Pittsburgh	Integrative Biology and Neuroscience	18,713,382
TG-CHE130103	Jeremy Moix	Massachusetts Institute of Technology	Chemistry	5,027
TG-PHY110015	Pran Nath	Northeastern University	Physics	1,004,429
TG-DMS120024	Benjamin Ong	Michigan State University	Mathematical Sciences	68,907
TG-MCB130072	Robert Quick	Indiana University	Molecular Biosciences	15
TG-TRA100004	Andrew Ruether	Swarthmore College	Training	444,374
TG-IBN130008	Jorden Schossau	Michigan State University	Integrative Biology and Neuroscience	4
TG-PHY120014	Qaisar Shafi	University of Delaware	Physics	403,126
TG-CHE130091	Paul Siders	University of Minnesota, Duluth	Chemistry	56,827
TG-STA110014S	Nancy Wilkins-Diehr	University of California-San Diego	Center Systems Staff	5
TG-STA120004	XD Staff	Various	Testing & Integration	14
XD Total				21,359,647

Researcher Enabled in 2013 OSG-Direct

Project Name	PI	University	Science Domain	Hours
Duke-QGP	Steffen A. Bass	Duke University	Nuclear Physics	2,237,773
SPLINTER	Robert Quick	Indiana University School of Medicine	Medicine	4,006,656
IU-GALAXY	Robert Quick	Indiana University	Bioinformatics	196,555
RIT	Alexander Arlange	Rochester Institute of Technology	Ramsey Numbers	836,826
Snowmass	Meenakshi Narain	Brown University	LPC group	9,972,492
ECFA	Meenakshi Narain	Brown University/LPC group	Particle Physics	1,744,646
SNOplus	Joshua R Klein	University of Pennsylvania	Physics - Neutrino	488
DetectorDesign	John Strologas	University of New Mexico	Medical Imaging	353,847
BNLPET	Martin Purschke	Brookhaven National Lab	Biomedical Imaging	22,453
UMich	Paul Wolberg	University of Michigan	Microbiology	793,091
EIC	Thomas Ullrich	Brookhaven National Lab	Particle Physics	231,815
UPRRP-MR	Steven Massey	Universidad de Puerto Rico, Rio Piedras (UPRRP)	Bioinformatics	41,183
TG-TRA120041				48
Unknown				4
OSG Total				20,437,882

Recent Accomplishments

- New Site integration has been established at a minimal level by negotiating and acquiring additional 0.1 FTE of Marko Slyz
- OSG-XD front-end has been upgraded to a two server configuration. Enables more flocking connections and ability to handle more (~20K) active jobs. Re-designed “groups” on the submit host to provider better load balancing and access to resources for flocking connections
- Continued to operate the OSG Public storage service (based on iRODs) for the benefit of the OSG VO community; planning to move this services to be hosted at GOC.
- Working to integrate one new sites: Saint Louis University.

Top Concerns

1. How do we identify more researchers who can benefit from access to OSG DHTC ?

2. How do we get more opportunistic cycles? (seem to have hit some sort of ceiling at ~12K cores)

3. Despite the best efforts of the gFactory operations team, vo=osg must contribute non-trivial effort to maintain production at levels needed to support our customers. We continue to struggle with inadequate tools for understanding production for our front-end using the Glide-in WMS system

4. Need to develop a plan for site support – especially as we understand the division of effort between gFactory operations and related site support

User Support Team

Name	Institution	%FTE
Mats Rynge	ISI	50%
Marko Slyz	FNAL	60%
Tanya Levshina	FNAL	25%
Alex Zaytsev	BNL	10%
Chander Sehgal	FNAL	40%