

OSG Production Support

Bo Jayatilaka Fermilab

OSG Area Coordinators Call March 18, 2015



Introduction

- Chander is stepping down as User Support lead this month
 - Will continue to be project manager
- The OSG ET has revised the organizational plan such that User Support is split into other functional areas
 - Personnel will either be part of the existing Campus Grids team or the new Production Support team
- Work involving campus researchers will fall under Campus Grids lead by Rob Gardner
 - OSG as an XSEDE service provider, ACI-REFs interface to OSG, direct support for campus researchers
- Working involving VO access to opportunistic resources will fall under Production Support lead by BAJ



Mission of Production Support

- 1. Growing the opportunistic pool of the OSG
 - Add sites to opportunistic sphere
 - Improve on methods and technology to access opportunistic resources more efficiently
- 2. Help experiments (and VOs) access the opportunistic sphere
 - e.g. find the right VO for experiments (OSG for PHENIX, Fermilab for the FNAL IF experiments)
- 3. Be a catalyst for projects and technologies that help VOs run opportunistically
 - e.g. XRootD based StashCache system for distributed storage



Personnel

Production Support

User Support

Name	Institution	
Alex Zaytsev	BNL	
Marko Slyz	FNAL	
Tanya Levshina	FNAL	
Bo Jayatilaka	FNAL	
Chander Sehgal	FNAL	
Mats Rynge	ISI	
Emelie Harstad	Nebraska	

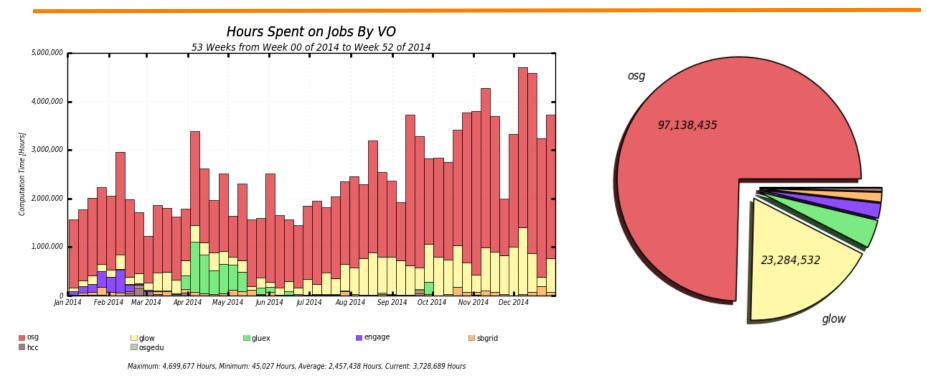
Name	Institution	FTE
Alex Zaytsev	BNL	0.10
Marko Slyz	FNAL	0.60
Tanya Levshina	FNAL	0.25
Bo Jayatilaka	FNAL	0.75
Chander Sehgal	FNAL	ex officio
Robert Illingworth	FNAL	0.50

2.2





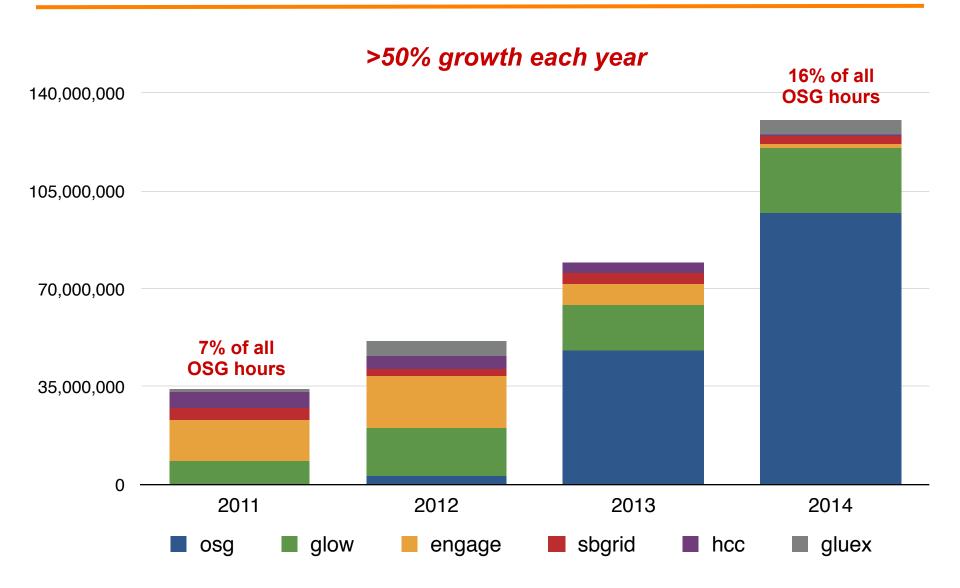
Opportunistic Computing in 2014



- Primarily opportunistic VOs (osg, glow, gluex, engage, sbgrid, hcc)
 received 130M wall hours in 2014
 - 16% of all OSG hours

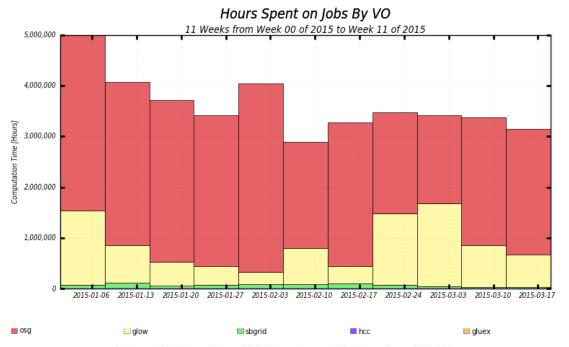


Growth of Opportunistic VOs

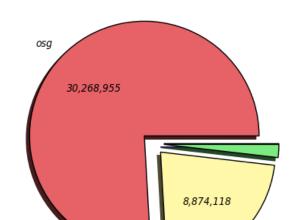




Opportunistic in 2015 so far



Wall Hours by VO (Sum: 39,876,209 Hours) 11 Weeks from Week 00 of 2015 to Week 11 of 2015



glow

Maximum: 4,998,485 Hours, Minimum: 2,894,461 Hours, Average: 3,625,110 Hours, Current: 3,153,405 Hours

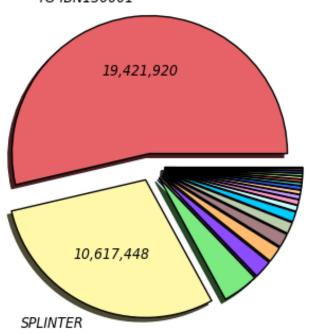
- Total of 39.9M hours to-date in 2015 for primarily opportunistic VOs
 - -~24% of all OSG hours

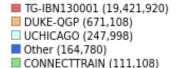


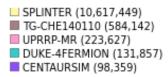
Open Facility for US Researchers

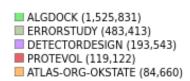
Wall Hours by VO (Sum: 36,210,244 Hours)

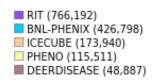
90 Days from Week 50 of 2014 to Week 11 of 2015 TG-IBN130001













Recent efforts

- Continue to work with FIU and Washington to bring new sites there on board
- Continuing to enable access to opportunistic resources by Fermilab Intensity Frontier experiments
 - mu2e will have a large campaign in 2015 which hopes to use 1M+hr/month from opportunistic resouces
- Continuing to work with GLOW to increase access to opportunistic resources
 - Now running on Fermigrid



Open Issues and Concerns

- Solution for data storage and access for Open Facility users (for beyond ~10 GB)
 - StashCache project will provide a solution using XRootD for up to ~1TB
 - Development of pilot in progress
 - R. Illingworth (FNAL) is member of development team
- Streamline process for new sites
 - In past year, Syracuse joined as new site, FIU and UW in progress, UVa considering
- Better utilization of available opportunistic cycles
 - Anticipate current level of availability through at least this year (until LHC Run2 computing ramps up)
 - Periodically demand-limited