

OSG Production Analysis: Goals, Status, and Plans

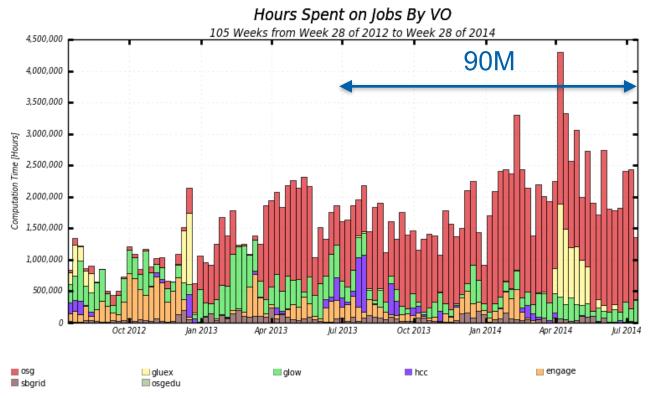
Bo Jayatilaka *Fermilab*

OSG Council Meeting July 15, 2014



Introduction

- Opportunistic* VOs constitute ~90M hours over the past year
 - 63M from OSG VO alone
- Target growing to 100M hours from OSG VO in year 3



Maximum: 4,301,975 Hours, Minimum: 443,446 Hours, Average: 1,633,068 Hours, Current: 1,362,837 Hours

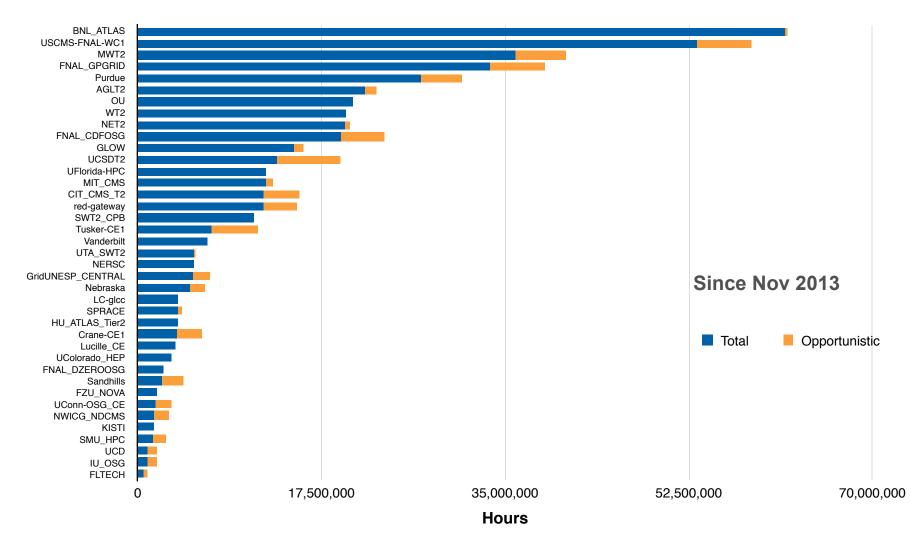


Increasing Opportunistic Cycles

- 1. Grow overall size of OSG
 - Rate of new sites approaching OSG is increasing
 - Existing ATLAS/CMS sites growing anticipating Run 2
- 2. Increase opportunistic share at existing sites
 - Are existing sites not providing all opportunistic hours they can
 - Are opportunistic jobs not configured to take advantage of existing resource
- 3. Eliminate inefficiencies in existing infrastructure
 - e.g., at Factory-level



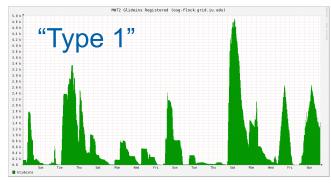
A top-down look

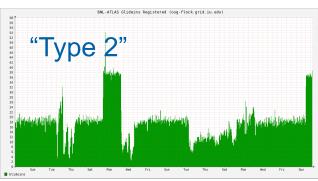




Categorizing sites

- Broadly break sites down into three categories
 - 1. Sites accepting OSG VO jobs "fully opportunistically"
 - 2. Sites accepting OSG VO jobs with a cap/quota
 - 3. Sites not accepting OSG VO jobs
- Metrics used to determine
 - Glidein monitoring per site
 - Correlations between opportunistic
 VOs and dominant VO for a site

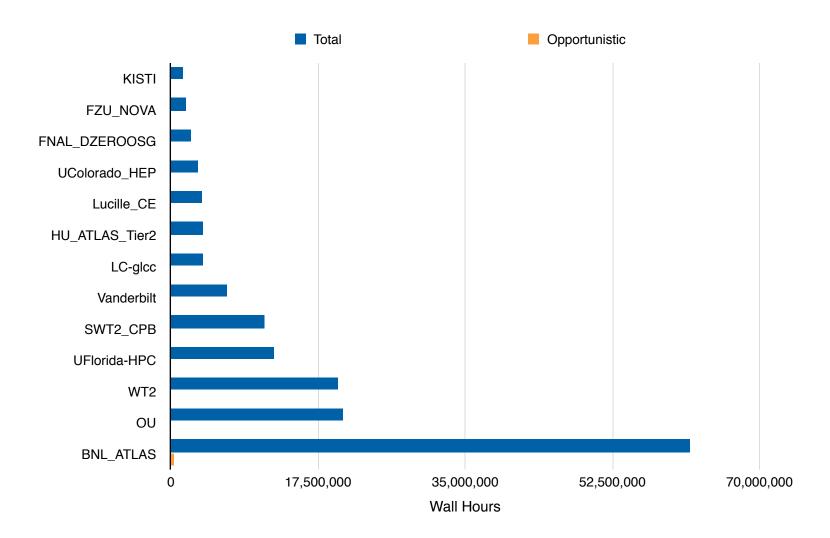




	cms	osg	engage
cms	1.00000	-0.83145	-0.68202
osg	-0.83145	1.00000	0.60380
engage	-0.68202	0.60380	1.00000



Sites with little opportunistic availability





Next steps

- Approach sites/organizations about providing more opportunistic cycles
 - e.g., productive presentation to US ATLAS computing on 7/9
 - Better communication of what our preferences are (e.g., occasional opportunistic fills better than small but constant quota)
- Understand how we can reconfigure to better take advantage of available resources
 - e.g., should there be a "short" job queue?
- What role does the OSG council foresee playing in this process?