

Status Report (III Quarter)

Tanya Levshina

Gratia Development (I)

- Gratia Core
 - Working on new release
 - Admin interface fixes
 - Registration of “overly efficient” job records in trace table
 - Ant build
 - New hibernate libs (?)
- Gratia Probes
 - Bug fixes (slurm, psacct)
 - Production release:
 - Quarantine records
 - Pbs/lsf records unrealistic efficiency
 - Handle condor job records with RemoteCpu = 2^{32} (condor bug)
 - rpm packaging improvements
 - New features:
 - Get rid of GLOB for condor probes

Gratia Development (II)

- Gratia reporting
 - New reports:
 - Fermilab accounting report
 - OSG usage of Fermilab resource
 - Campus Grid report
 - OSG Projects report modification and addition. Integration with XD database.
- Gratia-Gold code modification and new release (consultant)
- Fields of Science Project – design and coordination of gratiaweb and OIM development
- Expand/improve Gratia Probe testing in OSG-testing framework
- Fermilab scoreboard – more plots & reports

Fermi Accounting Scoreboard


Progress:


- Fermi Resource used by OSG Project
- Fields of Science used by OSG Projects
- <http://fermigrid.fnal.gov/scoreboard>

Fermi Grid Resources Usage by FIFE

Select plot: Wall Hours per VO on Fermi Clusters Bar Graph ▾

Select experiment: all ▾


Start Time (DD-MM-YYYY): 


End Time (DD-MM-YYYY): 

Fermi Grid Resources Usage by OSG VOs

Select plot: Daily Wall Hours by Project and Site Bar Graph ▾

Select Facility: all ▾


Start Time (DD-MM-YYYY): 


End Time (DD-MM-YYYY): 

Fermi Grid Resources Usage by Fields of Science

Select plot: Wall Hours by Field of Science Bar Graph ▾

Select Facility: all ▾

Start Time (DD-MM-YYYY): 

End Time (DD-MM-YYYY): 

Todo list

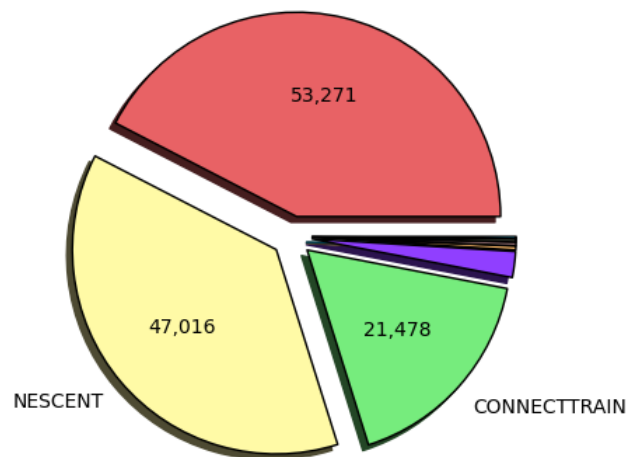
- GPCF accounting – requested by Stu Fuess
- Add CMS clusters in monthly reporting – req. by Ruth Pordes
- Plot that allows see trends (by Exp Name of usage and waiting jobs vs time; fraction of total resources are being consumed) - req. by Rob Roser
- website design

We have more efforts now – Marco Mambelli – 50% FTE

Gratia – Campus Grid

Wall Hours by VO (Sum: 125,562 Hours)

8 Weeks from Week 35 of 2013 to Week 42 of 2013
PATHSPACEHMC



■ NESCENT (47,017)
 ■ CONNECTTRAIN (21,478)
 ■ OSG-STAFF (2,570)
 ■ SOUTHPOLETELESCOPE (350.00)
 ■ EVO THEORY (264.00)
 ■ COMPCHEM (229.00)

OSG-Connect Report for 2013-10-14 - 2013-10-21

Project Name	PI	University	Science Domain	Hours
SouthPoleTelescope	John Carlstrom	University of Chicago	Astrophysics	114
ConnectTrain	Robert Gardner	University of Chicago	HTC Training	1
NESCent	Fabricia Nascimento	Duke University, The University of North Carolina at Chapel Hill, and North Carolina State University	Cross-disciplinary Evolution	12,698
OSG-Staff	OSG Staff	Various	Testing & Integration	784
Unknown				64
OSG-Connect Total				13,661

Fields of Science

- Sys Admin of the submission node registers a new project and relevant information at OIM
- Project is associated with a VO or a Campus Grid

My Projects

BNLPET	DetectorDesign	Duke-QGP	ECFA	EIC
OSG-Staff	RIT	SNOplus	Snowmass	sPHENIX
TG-ATM130009	TG-ATM130015	TG-BCS110002	TG-CHE130091	TG-DMR130036
TG-IRI130016	TG-MCB090163	TG-MCB090174	TG-MCB100109	TG-MCB130072
TG-PHY110015	TG-PHY120014	TG-STA110014S	TG-TRA100004	UMich
UPRRP-MR	XENON			

Projects

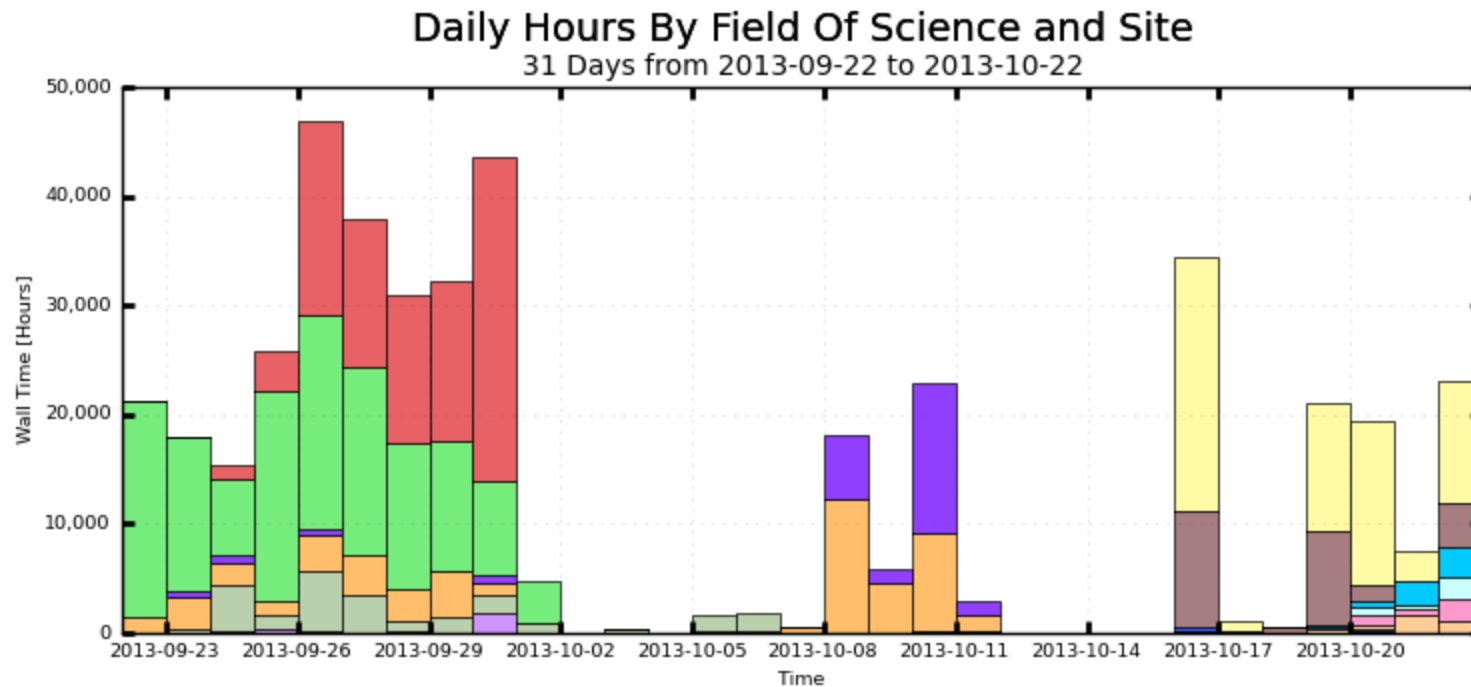
AtlasConnect	BioStat	CompChem	CompNeuro
EvoTheory	GlassySystems	IU-GALAXY	KnowledgeSys
NRELMatDB	PathSpaceHMC	PlantBio	RDCEP
SPLINTER	Swift	UChicago-RCC	

NESCent

Name	NESCent
Description	NESCent promotes the synthesis of information, concepts and knowledge to address significant, emerging, or novel questions in evolutionary science and its applications. NESCent achieves this by supporting research and education across disciplinary, institutional, geographic, and demographic boundaries.
Organization	Duke University, The University of North Carolina at Chapel Hill, and North Carolina State University
Department	NESCent Center
Sponsor Campus Grid	OSG-Connect
Principal Investigator	Fabricia Nascimento
Field Of Science	Cross-disciplinary Evolution

Fields of Science & Site

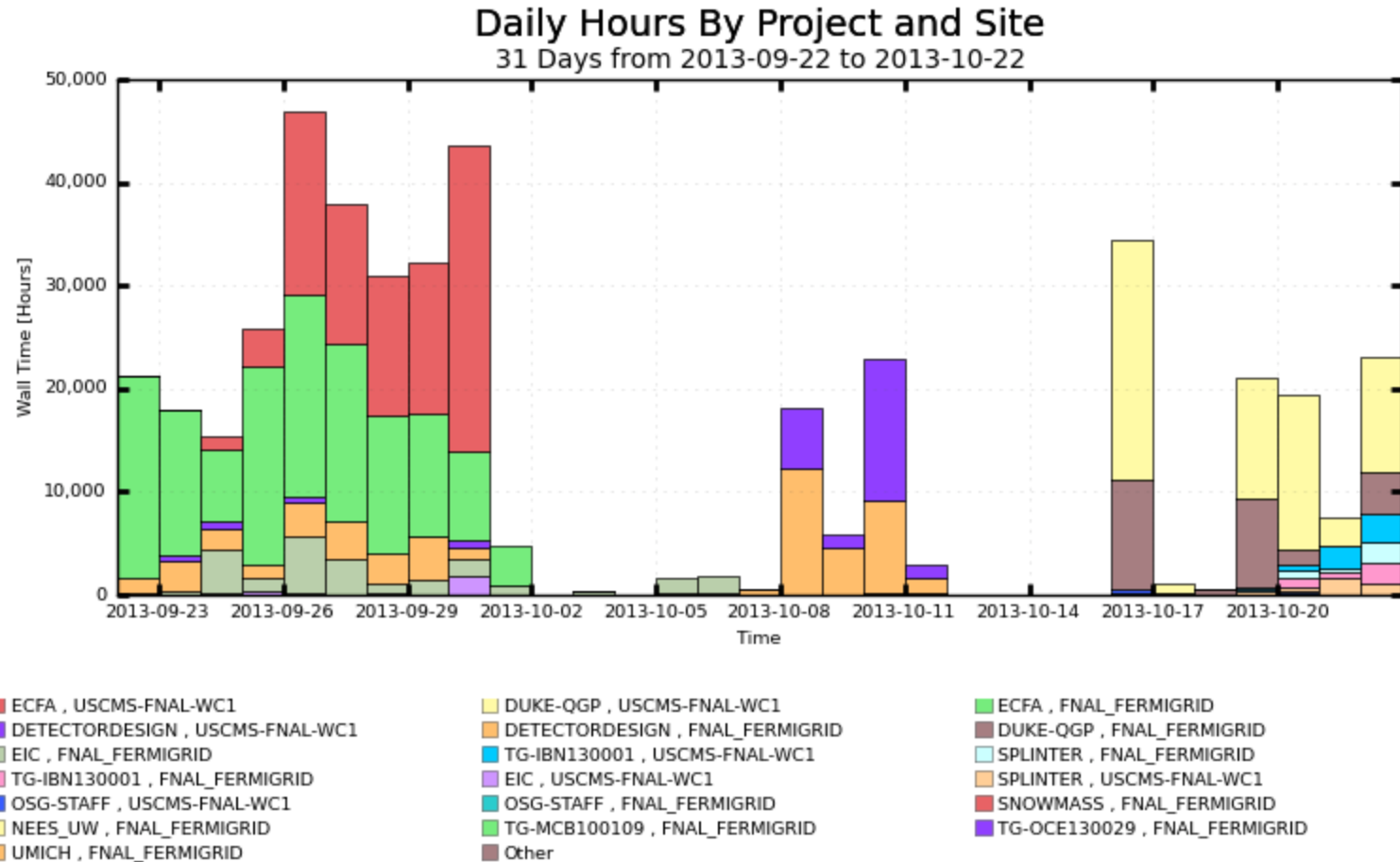
Graphs



- High Energy Physics, USCMS-FNAL-WC1
- Medical Imaging, USCMS-FNAL-WC1
- Accelerator Physics, FNAL_FERMIGRID
- Biological Sciences, FNAL_FERMIGRID
- UNCLASSIFIED, USCMS-FNAL-WC1
- Ocean Sciences, FNAL_FERMIGRID
- Physics and astronomy, USCMS-FNAL-WC1
- Nuclear Physics, USCMS-FNAL-WC1
- Medical Imaging, FNAL_FERMIGRID
- Biological Sciences, USCMS-FNAL-WC1
- Accelerator Physics, USCMS-FNAL-WC1
- UNCLASSIFIED, FNAL_FERMIGRID
- Microbiology, FNAL_FERMIGRID
- High Energy Physics, FNAL_FERMIGRID
- Nuclear Physics, FNAL_FERMIGRID
- Medicine, FNAL_FERMIGRID
- Medicine, USCMS-FNAL-WC1
- Molecular Biosciences, FNAL_FERMIGRID
- Ocean Sciences, USCMS-FNAL-WC1

Maximum: 46,817 Hours, Minimum: 0.00 Hours, Average: 14,126 Hours, Current: 23,082 Hours

Project Names & Site



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OIM registration and reports

ECFA

Name	ECFA
Description	Simulate hundreds of millions of high-energy proton proton collisions, which mimic the collisions expected at the LHC in the coming years. This simulated data is used to assess the physics potential of potential detector upgrades, allowing decision makers and funding agencies to plan for the future.
Organization	Brown University
Department	Physics
Sponsor Virtual Organization	OSG
Principal Investigator	Meenakshi Narain
Field Of Science	High Energy Physics

OSG-VO Report for 2013-09-22 - 2013-10-22

Project Name	PI	University	Science Domain	Hours
Duke-QGP	Steffen A. Bass	Duke University	Nuclear Physics	287,114
SPLINTER	Robert Quick	Indiana University School of Medicine	Medicine	430,464
IU-GALAXY	Robert Quick	Indiana University	Bioinformatics	85,024
OSG-Staff	OSG Staff	Various	Testing & Integration	7,898
Snowmass	Meenakshi Narain	Brown University	LPC group	1,967
ECFA	Meenakshi Narain	Brown University/LPC group	Particle Physics	558,979

OSG-XSEDE

- Finished work on Gratia-Gold (interface to XD accounting service). New features include:
 - Charge XD allocations for jobs submitted from nodes other than osg-xsede .
 - Add quarantine, black & white lists, rules.
 - In production.
- For XD reports generation, we can now query XD database directly and keep info in local cache.

OSG/WLCG

- GOC doesn't provide significant help.
- John Weigand is involved in all tickets, data verification, and communication with support personnel at EGI.
- Service is still running at Fermilab.

Should we leave it as is?

GratiaWeb

- Some progress, several bugs have been fixed and new features have been implemented.
- In need of major review – too many minor bugs and inconsistencies.

Issues

- Probes:
 - How to deal with records with hard to believe efficiency (condor, pbs, slurm)?
 - How to deal with underreporting by sge probe (NERSC)?
 - Should we rewrite pbs/lsf probe?
 - Slurm probe is an orphan for the time being.
- Collector:
 - Memory hog – see operation report
- A lot of new requests for reports – need to refactor existing reporting.
- GratiaWeb needs more attention.
- OSG – WLCG reporting. Should we abandon our efforts to involve GOC???
- How to make Scoreboard more relevant to Fermi stakeholders (FIFE)?