

Gratia Status Report (3d Quarter 2014)

Tanya Levshina

Efforts

Gratia Team

- Tanya Levshina – 0.4 FTE
 - Project leader, Operational issues, Reports , Releases, Scoreboard, Active Archive Project, Cloud probe, gratia/XSEDE (AMIE) interface
- Hyunwoo Kim – 0.3 FTE
 - MySQL, hibernate, gratia osg-testing suit
- Marco Mambelli – 0.5 FTE
 - Scoreboard, Active Archive Project, Operational issues, Probe common libs, Documentation
- Carl Edquist (OSG Software Team) - ? FTE
 - Operational issues, Batch probes, Some storage probe, OSG Display

Satellite Projects

- Scott Tiege -- ?FTE
 - OSG/WLCG interface
 - Operational issues
- Juan Morales (intern) 0.5 FTE
 - GratiaWeb

Gratia Development (I)

- Gratia Core
 - 1.16.1 in osg-development
 - Hibernate4
 - Mysql 5.6
 - Bugfixes
- Gratia Probes (1.13.29 - 1.13.31)
 - Bug fixes (condor, slurm, pbs-lsf, sge, dcache)
- Gratia Reports (1.15.1)
 - Bug fixes

Gratia Development (II)

- Gratia reporting:
 - Multiple new reports (Flocking, Opportunistic usage , etc)
 - Fields of Science for VOs – continuing work on coordination of GratiaWeb and OIM development
- Fermilab scoreboard:
 - Adding additional plots for experiments
 - FIFE new infrastructure migration monitoring (<http://web1.fnal.gov/scoreboard/jobsub/jobsub-report.html>)
- Active Archive Facility Project:
 - Webpages design
 - Probes design and implementation
 - Gratiaweb modification

Laundry List of Issues from the last meeting.

- mySQL 5.6 upgrade
- Do we need to keep fermi instance (Only glexec probes are not forwarded to osg) - decided to not to move fermi instances to 5.6 , redirect current glexec probe to “fermicloud” database.
- Probe rewrite (pbs-lsf)
- Data auditing
- Report generation restructuring
- Fermi Scoreboard development directions.
- Archival Project - three new probes, web page proposal, installed collector
- Documentation

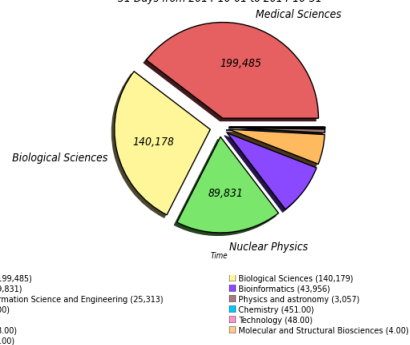
Fields of Science

- FOS is now defined for all VOs as well. We are working on gratiaweb modifications. It will allow to see the FOS per site.
- Opportunistic usage's report is included in osg newsletter:
<http://www.opensciencegrid.org/opportunistic-resources-report-for-octobernovember/>
- Top 10 sites get notification about the opportunistic use of the OSG Open Facility Project/Science. We have got a positive response from sites' PIs.
- Campus Grid that don't report ProjectName
 - HCC - Still trying to convince HCC to start project registration. They have actually required this feature!
 - GLOW – Now run gratia probe but waiting for condor modification to start reporting ProjectName

UFlorida-HPC has provided 503,117 wall hours to the OSG Open Facility during 2014-10-01 - 2014-10-31.
Last period this site provided 509,245 wall hours.

Wall Hours by Field of Science (Sum: 503,140 Hours)

31 Days from 2014-10-01 to 2014-10-31



PROJECT NAME	FIELD OF SCIENCE	PI	VO	SUBMISSION HOST	WALL HOURS
SPLINTER	Medicine	Robert Quick	osg	XD-LOGIN	165,353
TG-IBN130001	Biological Sciences	Donald Krieger	osg	XD-LOGIN	140,178
Duke-QGP	Nuclear Physics	Steffen A. Bass	osg	XD-LOGIN	89,808
ProtFolding	Bioinformatics	Jinbo Xu	OSG-Connect	OSGCONNECT	43,956
DetectorDesign	Medical Imaging	John Strologas	osg	XD-LOGIN	34,133
RIT	Computer Science	P. Stanislaw Radziszowski	osg	XD-LOGIN	25,312
TG-PHY120014	Physics and astronomy	Qaisar Shafi	osg	XD-LOGIN	3,057
A/GDock	Chemistry	David Minh	OSG-Connect	OSGCONNECT	451
CentaurSim	Astrophysics	Nathan Kaib	OSG-Connect	OSGCONNECT	370
ConnectTrain	HTC Training	Robert Gardner	OSG-Connect	OSGCONNECT	250
IceCube	Astro-particle Physics	Francis Halzen	OSG-Connect	OSGCONNECT	178
ContinuousIntegration	Technology	Robert Gardner	Duke-Connect	DukeConnect	48
TG-OCE140013	Ocean Sciences	Yvonne Chan	osg	XD-LOGIN	18
TG-MCB090163	Molecular Biosciences	Michael Hagan	osg	XD-LOGIN	4
Swift	Computer Science	Michael Wilde	OSG-Connect	OSGCONNECT	1
TG-DEB140008	Biological Sciences	Robert Toonen	osg	XD-LOGIN	1
duke-campus	Community Grid	Tom Milledge	Duke-Connect	DukeConnect	0
megaprobe	Computer and Information Science and Engineering	Humberto Ortiz-Zuazaga	OSG-Connect	OSGCONNECT	0
Total for Site UFlorida-HPC:					503,117

GratiaWeb

- Some progress since July 1st (0.5 FTE -- visitor scientist. Marco has spent significant time to train Juan, Carl helped as well)
- Fixing memory leaks, minor bugs and inconsistencies.
- Implemented new features: new queries for transfers, campus grid etc.

Gratia 2.0

- OSG:
 - Gratiaweb replacement (see XDMod - https://xdmod.ccr.buffalo.edu/#main_tab_panel2:tg_summary)
 - New reporting framework
 - Probes' redesign:
 - PBS-LSF
 - SLURM
 - SGE
 - Common Libs
 - Data auditing

FIFE

- Web Portal:
 - Job submission
 - Monitoring (jobsub, SAM, FTS, dCACHE, bluearc)
 - Accounting (batch, glidein, dCache, bluearc, enstore, capcity)

Active Archive Facility Project

- Web UI
- Gratia core service modification:
 - Storage record summarization
 - Tape drive records summarization
 - Database schema modification
- Reports

