

# Gratia Status Report (2st Quarter 2014)

Tanya Levshina

# Efforts

## Gratia Team

- Tanya Levshina – 0.05 FTE
  - Project leader, Operational issues, Reports , Releases, Scoreboard, Cloud probe, gratia/XSEDE (AMIE) interface
- Hyunwoo Kim – 0.2 FTE
  - mySQL, hibernate, gratia osg-testing suit
- Marco Mambelli – 0.5 FTE
  - Scoreboard, Archival Project, Operational issues, Probe common libs, Documentation
- Carl Edquist (OSG Software Team) - ? FTE
  - Operational issues, Batch probes, Some storage probe, OSG Display

## Satellite Projects

- John Weigand, Scott Tiege -- ?FTE
  - OSG/WLCG interface
  - Operational issues
- Brad Hurst 0.1 FTE
  - GratiaWeb

# Gratia Development (I)

- Gratia Core
  - 1.14.1 in osg-production repo
    - Get rid of BIRT reporting
    - Bug fixes
  - 1.15.1 in osg-development
    - Hibernate4
    - Mysql 5.1
- Gratia Probes (1.13.24 – 1.13.29)
  - Bug fixes (condor, slurm, pbs-lsf, sge )
  - Decommission psacct probe

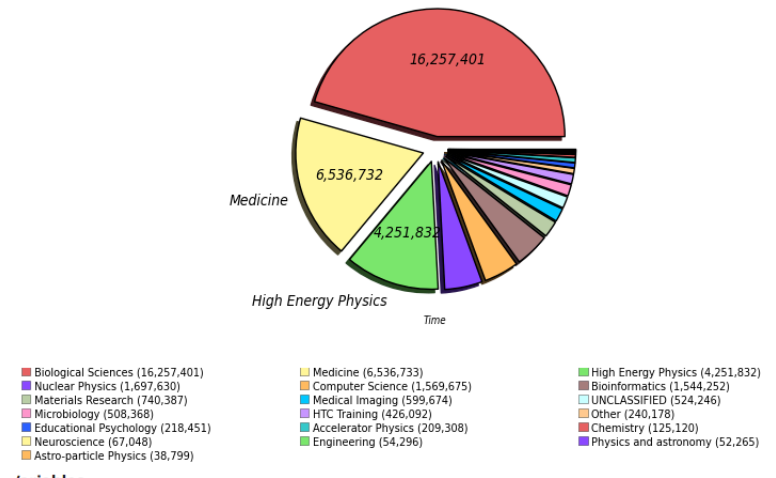
# Gratia Development (II)

- Gratia reporting
  - OSG Projects report modification and addition (OSG-Connect, UCSD)
  - Fields of Science for Projects and VOs – continuing work on design and coordination of GratiaWeb and OIM development
- Fermilab scoreboard: requirement gathering, automated weekly and monthly plots for experiments

# Fields of Science

- There are 14 Campus Grids registered in OIM.
- Campus Grids that report ProjectName:
  - Atlas-Connect
  - UCSD
  - OSG-XSEDE
  - ISI
  - VT
  - OSG-Connect
  - Duke
- 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

Wall Hours by Field of Science (Sum: 35,661,754 Hours)  
176 Days from Week 00 of 2014 to Week 25 of 2014  
Biological Sciences



# OSG/WLCG

- GOC is now in charge of the project (since mid December).
- Source Code is transferred, Scott has got access to SVN
- Service is running by Gratia Operation at Fermilab
- Still most of the issues are discovered/corrected by John Weigand or other members of gratia team
- Issues:
  - Tickets addressees should include:
    - Affected resource admin
    - T2 coordinator of the respective Vos
    - Gratia-operation
    - Person responsible for OSG/WLCG service
  - Release cycle (immediate changes can be necessary, can not wait for a month or two)

# Data Integrity

- $\text{WallTime} \neq \text{EndTime} - \text{StartTime}$  (Nebraska)
- CpuTime set to NULL (Nebraska)
- Understating wall hours due to multi-core jobs (Purdue-Rossman, UNESP)
- Misreporting user VO affiliation (Net2)
- Double reporting of WallHours for opportunistic VOs (Fermilab) due to site-gate probe.
- ATLAS and CMS should find people to check the numbers that are reported to the WLCG!!!

# GratiaWeb

- Very little progress
- In need of major review – too many minor bugs and inconsistencies.
- Many requirements: new queries fro transfers, campus grid etc.
- Numerous outages, memory problems, sluggish performance during last quarter
- Brad Hurst (Nebraska) doesn't work on the project anymore
- Visitor-scientist (starting July 1st) will be assigned to work on gratiaweb (50%FTE paid by the OSG):
  - Will Brian, Derek or Brad bring him up to date?
  - Should we continue to put effort in gratiaweb?
  - Who will provide long term support and maintenance of the code?



# Laundry List of Issues and Questions.

- mySQL 5.6 upgrade
- Do we need to keep fermi instance (Only glexec probes are not forwarded to osg)
- Probe rewrite (pbs-lsf)
- Data auditing
- Report generation restructuring
- Fermi Scoreboard development directions.
- Archival Project
- Documentation

We need feedback from stakeholders to understand the priorities!