Gratia Status Report (1st Quarter 2014)

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Gratia Development (I)

- Gratia Core
  - 1.13.12-1.1 In osg-development repo
    - Admin interface fixes
    - Registration of "overly efficient" job records in trace table
    - Ant build
    - Timestamp fixes to report in a single Time Zone.
  - Working on 1.14.0
    - Deprecation of gratia BIRT reporting (vulnerability issues)
- Gratia Probes
  - Bug fixes (condor, slurm, psacct, pbs-sf, sge)
  - New features:
    - Get rid of GLOB for condor probe
    - Onevm probe for OpenNebula 4.4

Gratia Development (II)

- Gratia reporting
  - OSG Projects report modification and addition. Integration with XD database and OIM.
  - GLOW report
- Fields of Science for Projects and VOs – continuing work on design and coordination of GratiaWeb and OIM development
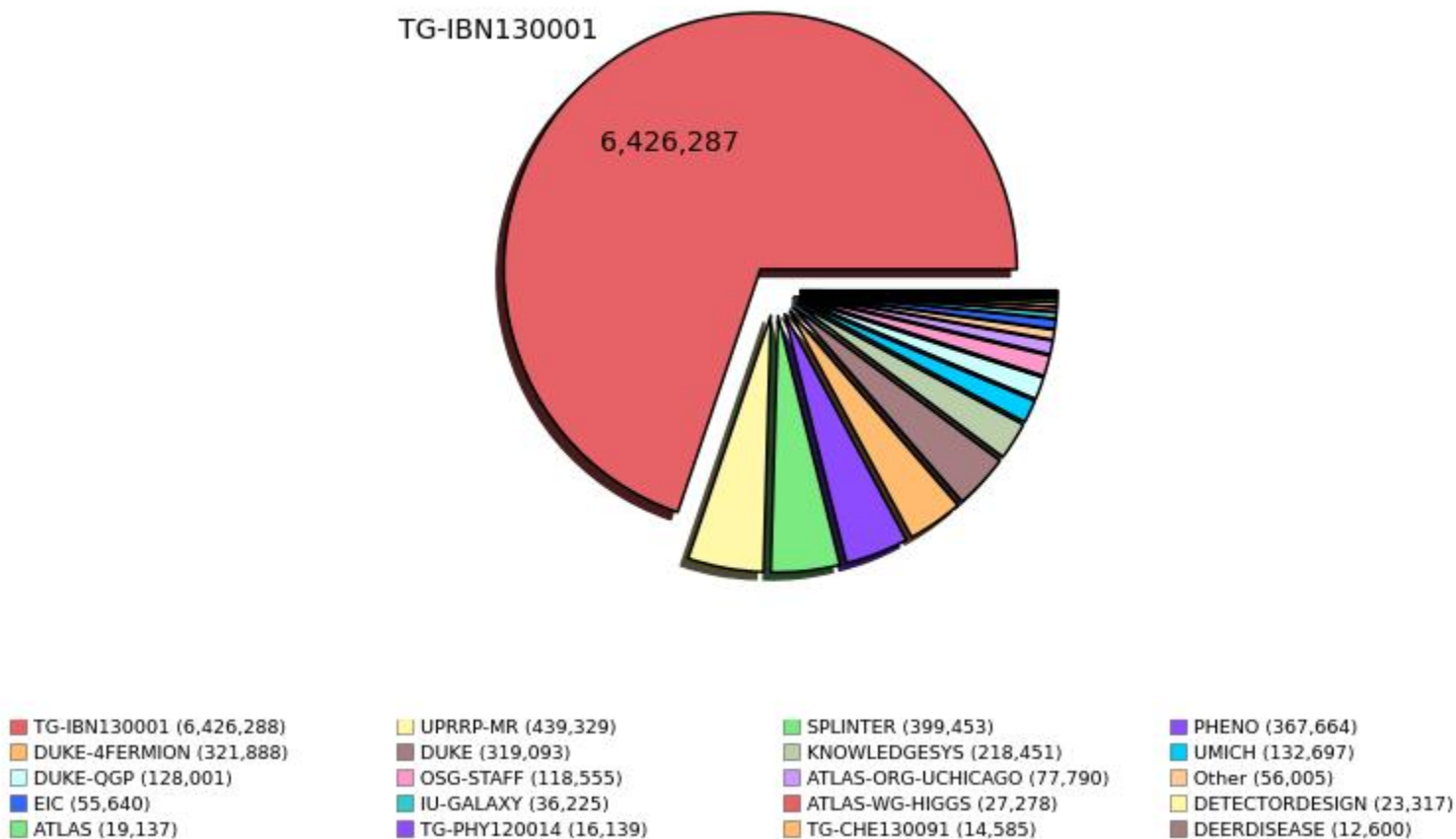- Fermilab scoreboard: survey, software evaluation, new graphs

Fermi Accounting Scoreboard

- Survey of division management and FIFE teams (see Marco's report)
- Weekly inclusion of gratia plots into presentation for operational meeting
- Static weekly graphs on the front page:
  - http://fermigrid.fnal.gov/scoreboard/

Gratia – Campus Grid Reporting

Wall Hours per Project (Sum: 9,210,133 Hours)
42 Days from 2014-01-01 to 2014-02-11

TG-IBN130001

6,426,287

- TG-IBN130001 (6,426,288)
- DUKE-4FERMION (321,888)
- DUKE-QGP (128,001)
- EIC (55,640)
- ATLAS (19,137)
- UPRRP-MR (439,329)
- DUKE (319,093)
- OSG-STAFF (118,555)
- IU-GALAXY (36,225)
- TG-PHY120014 (16,139)
- SPLINTER (399,453)
- KNOWLEDGESYS (218,451)
- ATLAS-ORG-UCHICAGO (77,790)
- ATLAS-WG-HIGGS (27,278)
- TG-CHE130091 (14,585)
- PHENO (367,664)
- UMICH (132,697)
- Other (56,005)
- DETECTORDESIGN (23,317)
- DEERDISEASE (12,600)

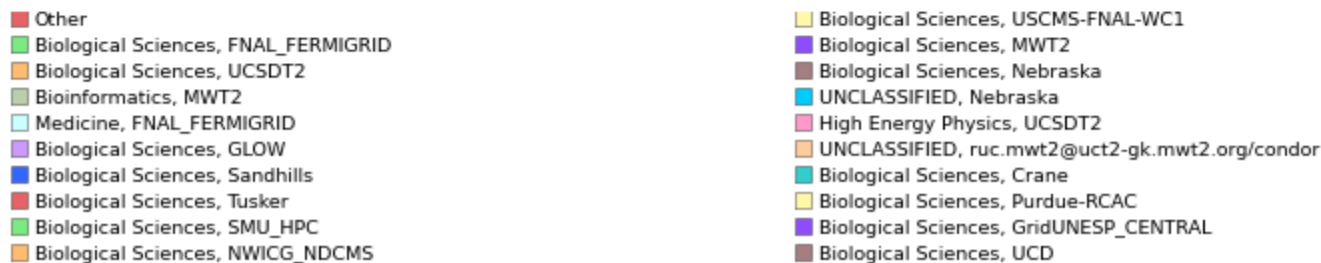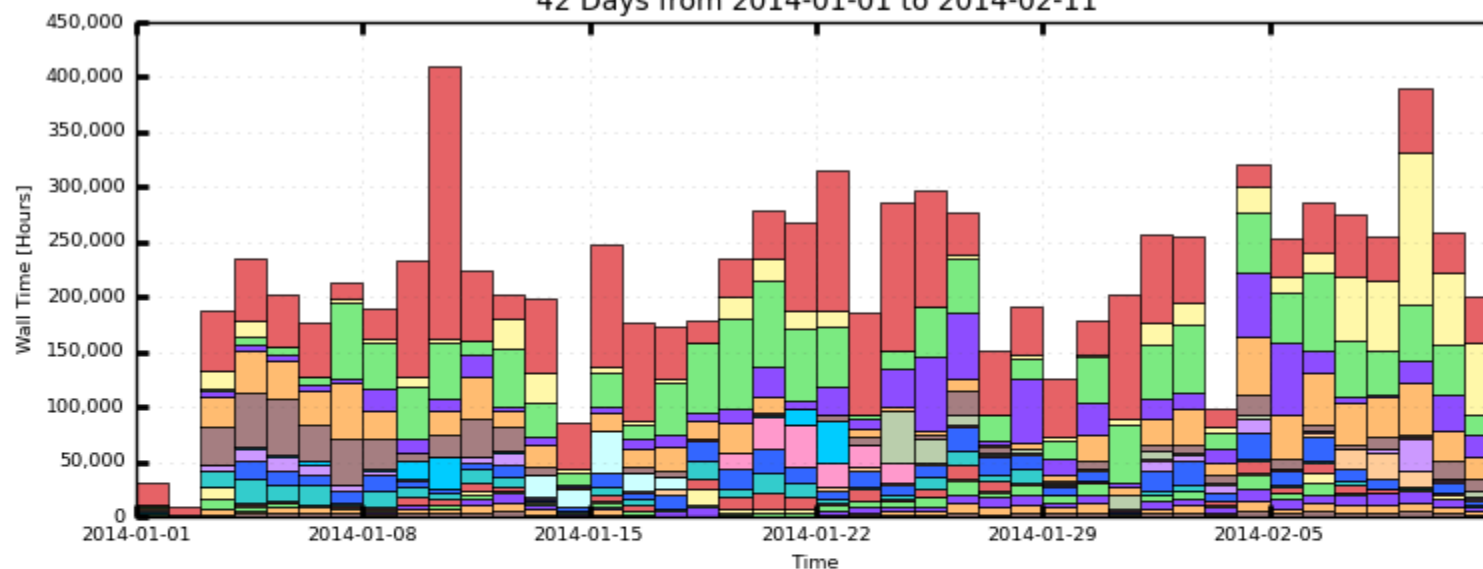Gratia Stakeholders Meeting (1 Quarter)

2/12/2014

Fields of Science

- Current Status:
  - 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
  - Monitor Gratia and OIM and XD database (for XD projects) and send email to osg-user-support if an unregistered Project is encountered
  - There are 15 probes running on Campus/VO submission nodes. 7 probes report Project Name.
  - HCC Campus is running gratia probe but most of the project name it is reporting is Unknown and none of the reported projects is registered in the OIM.
- Plans:
  - Hope to convince HCC to start project registration. They have actually required this feature!
  - GLOW Campus doesn't run gratia probe. We are working with them to understand what is required to start reporting accounting by project. It looks like they are interested to have this accounting.
  - Add Field of Science in registration form for all VOs. This will allow to get a complete information for Fields of Science.

Fields of Science & Site

Daily Hours By Field Of Science and Site
42 Days from 2014-01-01 to 2014-02-11

Legend:
- Other
- Biological Sciences, FNAL_FERMIGRID
- Biological Sciences, UCSDT2
- Bioinformatics, MWT2
- Medicine, FNAL_FERMIGRID
- Biological Sciences, GLOW
- Biological Sciences, Sandhills
- Biological Sciences, Tusker
- Biological Sciences, SMU_HPC
- Biological Sciences, NWICG_NDCMS
- Biological Sciences, USCMS-FNAL-WC1
- Biological Sciences, MWT2
- Biological Sciences, Nebraska
- UNCLASSIFIED, Nebraska
- High Energy Physics, UCSDT2
- UNCLASSIFIED, ruc.mwt2@uct2-gk.mwt2.org/condor
- Biological Sciences, Crane
- Biological Sciences, Purdue-RCAC
- Biological Sciences, GridUNESP_CENTRAL
- Biological Sciences, UCD

Maximum: 410,541 Hours, Minimum: 9,150 Hours, Average: 219,455 Hours, Current: 200,800 Hours

OSG/WLCG

- GOC is now in charge of the project (since mid December).

- Source Code is transferred

- Service is running by Gratia Operation at Fermilab

- Cannot really evaluate the results of transition
  - They don't include us in the loop
  - We don't know when a ticket is created , e.g.
    > USCMS-FNAL-WC1-CE is not reporting for 8 days – I can not find the ticket
  - ATLAS and CMS should find people to check the numbers that are reported to the WLCG.

GratiaWeb

No changes since the last meeting

- Some progress, several bugs have been fixed and new features have been implemented.

- In need of major review – too many minor bugs and inconsistencies.

Laundry List of Issues and Questions

- Hibernate 4 migration . Most of the migration is complete but so far we can not resolve the issues related to handling duplicate records.

- mySQL 5.5 update is coming.

- Probe maintenance responsibilities. Probe rewrite (pbs-lsf).

- What should we do with bad records, bad probes? Should we work on filter development on a collector site?

- Email reports are badly structured , we need to incorporate new reports and restructure the code.

- Cloud probe, should we move further (real cpu & memory, openstack?).

- Gratia consultant paid by the OSG has modified gratia-xd interface according the requirements. Now, it looks like gratia development group should maintain the code. We have transition osg/wlcg interface, should we do the same for gratia-xd?

- Cloud provisioning – should we start worrying about accounting?

- Fermi Scoreboard development directions.

We need feedback from stakeholders to understand the priorities!