OSG User Support

Report to Area Coordinators

Last Report on May 9, 2012

User Communities

SLAC/SuperB: The planned production run has been postponed to late September or October, but there will be a test in July. SuperB is evaluating whether to ask special site configurations to distinguish between regular and production roles: first time from an opportunistic VO (as far as we know). We've been helping the following sites:

1. SLAC -- Publishing storage info to info system. Agreed for SuperB to run on a specific cluster w/o outbound connectivity

2. Caltech -- Hardware problems. Now that they are solved the setup should work.

3. Fermigrid -- Publishing storage info to info system. Need more testing, but the setup essentially stable

4. Ohio Supercomputer Center -- This site is still being configured.

SLAC/Phenomenology: They have not run jobs since the our last meeting.

Electron Ion Collider (EIC): Started a batch of jobs, but they were finishing very slowly. We can look into this when the user is available to work with us. New staff at BNL now assigned to OSG User Support and we will transition this to Alex.

NEES: One user [Patricia] ran a small amount of hours in May. Actions taken to migrate the NEES VO from Engage VO; ready to turn off Engage/NEES at the end of June. No progress on the deployment of OSG software at the Oregon State University

DES: Still supporting work on adapting first cut processing pipeline for grid use. We have recently run the processing for 100 exposures on Fermigrid to evaluate feasibility. Improved or wrote scripts to start the runs, check their results, and collect statistics from them. The key challenge here is data handling (~10s GB per job).

LSST: We have started working with one user from the Dark Energy group to run related to weak lensing through the new OSG/XSEDE submit host. Found mistake in VO package configuration (gums.config) from first sites to support LSST; in July we'll

ask more sites to support LSST as to migrate their computations from the NWICG VO to the LSST VO. Interacting with ImSim coordinator at Purdue to help support montecarlo generation requests from multiple users

iPlant: **The** OSG User Support group had reached out to the iPlant collaboration through contacts at TACC in Oct 2011. iPlant is an NSF-funded project to boost studies of plant biology using computational techniques. iPlant supports a portal for data archiving, job management, and scientist social interactions. By design, iPlant will interface to OSG using a condor job-submission interface; iPlant will maintain a condor scheduler that will be made part of the OSG front-end. TACC has started the modification of their portal software to support submission to OSG. The plan is to start testing in July/August (depending on availability of new hires).

UMD-IGS: Have host and service certificates; they are in the process of installing software for site.

PNNL/Belle: In the process of installing a Compute Element.

New Technology

OSG as an XSEDE SP

The OSG XSEDE interface is now in production. Usage is still low, as users are just now starting to learn about the new resource available to them. We have six active XSEDE allocations on the system. The user support group has been doing outreach at the quarterly XRAC (allocation) meetings, and the XSEDE Campus Champions phone calls. The resource will be presented during the HTC tutorial at the XSEDE12 conference in Chicago on July 16.

Work continues on last details of account charging against allocations; not in any critical path.

Public Storage using iRODS

Ready for limited production deployment; recent work includes

1. integrated condor transfer plugin with iRODS, configured test GlideinWMS frontend to use glidein to install iRODS client software. Tested installation.
2. performance testing completed; results are at https://twiki.grid.iu.edu/twiki/pub/VirtualOrganizations/IRODSOSG/OSGStorage_iRODS_phaseI_final_report.pdf
3. finished Phase I of iRODS/OSG Storage integration, presented at the OSG Tech. Investigation meeting; final report at https://twiki.grid.iu.edu/twiki/pub/VirtualOrganizations/IRODSOSG/OSGStorage_iRODS_phaseI_final_report.pdf
4. presented the current status at the meeting with Operation and Production Managers; see https://twiki.grid.iu.edu/twiki/pub/VirtualOrganizations/IRODSOSG/OSGStorage_iRODS_deployment.pdf
5. Added OSG VO and registered supported SE with iRODS, reconfigure osg-xsede GlideinWMS frontend to use "iRODS" enabled glidein. Tested configuration: submitted jobs from osg-xsede nodes that upload files using condor transfer plugin.
6. started to work on the utilities script for production manager.

Upcoming and Potential Work

1) In process of moving Baker Lab flocking from RENCI to UCSD
2) Actively transitioning “incubators” from RENCI-Engage to other environments
3) HTC tutorial at XSEDE12 conference (July 16)
4) Revised documentation for new users at OSG Home page

Report submitted on behalf of

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Tanya Levshina	0.25
Mats Rynge	0.5
Yaling Zheng	0.5
Alex Zaytsev	0.1
TOTAL FTE	2.1