OSG User Support – Area Coordinators Report

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On Behalf of

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Effective service delivery for all XSEDE Users of OSG (Rynge – Ongoing)

1. OSG continues to provide stable/reliable HTC compute resources to XSEDE users

    a. System is stable and has >99.9% availability
    b. System is also used for non-XSEDE users (incubator for members of new communities)
    c. We continue to provide general support for system

2. Usage for the OSG-XSEDE system has increased; January 2013 usage was >2M hours (we plan for 2M SUs per quarter which is ~666K hours per month). We currently have 58 active allocations; of these 5 are active users.

3. System continues to be used for successfully for many non-XSEDE OSG users (latest being CSIU researchers)

4. XRAC chair has advised OSG that there are likely to be requests for 10-20M hours at the March 2013 meeting

5. We plan to modify our allocation policy: 2M hours per quarter as a confirmed allocation and we will try to provide more based on opportunistic availability in OSG – Need to develop an implementation plan around this principle

- *For more info contact Mats Rynge*

Achieve limited deployment of public storage using iRODS for one VO (Levshina – Nov 2012)

1. Low level of activity continues in support of limited deployment; project is on-hold

2. Issues that need to be addressed

    I. IRODS hardware is old and unsuitable
    II. Very sporadic usage of iRODS doesn't provide a clear picture of its usability and scaling performance
    III. OASIS will provide a software distribution service; should we drop this functionality (pushing files to OSG_APP) from our iRODS implementation?

3. Find out if there a GLOW usage scenario (read-only data caching) that can further prove-in this system

- *For more info contact Tanya Levshina*

Top Concerns

1. Need to develop an implementation for new policy regarding OSG-XSEDE allocations
2. Need to determine next steps for OSG Public Storage – or wrap it up with a report
3. Unable to provide a good estimate of available opportunistic capacity in OSG -- affects many decision, including how much to make available to OSG-XSEDE (I believe Technology and Production are planning to address this question – when?)

Upcoming Activities

1. Support “Snowmass” Physics theory group to run on OSG in preparation for summer conference
2. Need to complete work to gain acceptance of “no end-user certificate with job” jobs at FNAL (osg-vo and GLOW); joint activity with Security Team
3. Develop accounting method for “ProjectName” for “flocking” connections to OSG-XSEDE host
4. Prepare talk for AHM (sub-section of “The State of OSG” on Wednesday morning)
5. Support “Talk to the Experts” session at AHM (Thursday morning)

Researchers Support by OSG User Support

Sub-Category	Researcher	Affiliation	Project Title (and URL, if available)	Hours	OSG Team	OSG Contact
Extrasolar planet astronomy	*Ewa Deelman, Bruce Berriman*	*USC ISI / NASA IPAC*	*Atlas of Periodicities present in the time-series data sets released by the Kepler satellite*	*355,382*	*OSG-XSEDE*	*Mats Rynge*
Cell Biology	*Paul Wolberg*	*University of Michigan*	*Multi-scale Computational Models to study the Human Immune Response to infection with M. tuberculosis*	*2,836*	*OSG-XSEDE*	*Mats Rynge*
Integrative Biology and Neuroscience	*Don Krieger*	*University of Pittsburgh*	*Very high resolution functional brain mapping*	*1,107,068*	*OSG-XSEDE*	*Mats Rynge*
Magnetospheric Physics	*Robert McIntosh*	*University of Texas at Dallas*	*Global Distribution of Characteristics of Auroral Particles*	*49,684*	*OSG-XSEDE*	*Mats Rynge*
Theoretical Physics	*Pran Nath*	*Northeastern University*	*Search for Beyond the Standard Model Physics at the LHC*	*103,679*	*OSG-XSEDE*	*Mats Rynge*
Combinatorics	*Alexander Arlange*	*Rochester Institute of Technology*	*Ramsey Numbers R(C4,Km)*	*140,121*	*User-Support*	*Mats Rynge*
Biomedical Imaging	*Martin Purschke*	*Brookhaven National Lab*	*Positron Emission Tomography (PET) at BNL, http://www.bnl.gov/pet/*	*1,628*	*User-Support*	*Alexandr Zaytsev*
Accelerator Modeling	*Armando Fella*	*SuperB experiment; CNRS–Orsay*	*Test jobs in preparation for designing SuperB accelerator, http://superb.infn.it/home*	*23,239*	*User-Support*	*Marko Slyz*
Accelerator Sciences	*Tobias Toll*	*Brookhaven National Lab*	*Electron Ion Collider (EIC) at BNL, https://wiki.bnl.gov/eic/index.php/Main_Page*	*612,896*	*User-Support*	*Alexandr Zaytsev*
Astronomy	*Don Petravick, Brian Yanny*	*NCSA & FNAL*	*Basic processing of DES exposures, https://cosmology.illinois.edu*	*129,308*	*User-Support*	*Gabriele Garzoglio*

Phenomenology	*Stefan Hoeche*	*SLAC*	*Validation and use of software for particle physics phenomenology, http://www.freacafe.de/physics/index.php*	*199,536*	*User-Support*	*Marko Slyz*
Plant Biology	*Rion Dooley*	*TACC*	*Research in plant sciences http://www.iplantcollaborative.org/*	*-0-*	*User-Support*	*Gabriele Garzoglio*
Astronomy	*John Peterson*	*Purdue*	*Software development for LSST telescope, http://www.lsst.org/lsst/*	*153*	*User-Support*	*Gabriele Garzoglio*

Recent Status for "new" Communities

1. DES: Running two DES pipelines on OSG (Fermigrid). Now helping to adapt other DES software to run with fewer dependencies and enable execution on OSG at Fermigrid. This work is a collaboration between OSG User Support and Fermilab Grid & Cloud Computing.
2. LSST: low level of support to transition the NWICG FE at Purdue to the LSST VO for MC submission.
3. NEES: the "Bridge to the future" proposal for another production campaign on OSG has been approved by NEES. For this campaign, we have the goal of using NEESHub as a submission platform and integrate the output from OSG with the NEES archive.
4. iPlant: continuing to work with TACC personnel to configure "flocking" connect to OSG-XSEDE
   SAGA: No new activity
5. SLAC Phenomenology: No new activity
6. EIC (BNL): No new Activity
7. BNLPET: No new activity
8. SuperB: No new activity

Sites

9. PNNL: Their CE is installed and now fully operational; running jobs for ILC and Belle. Now discussing PNNL focus for the future. Planning to run MC jobs for Belle II in 2013. Discussing data transfer challenge for Belle II from KEK to PNNL; they expect a need for a sustainable 2 Gb/s throughput and are planning to use FTS for data flow control.
10. UMD-IGS: Work continues, gated by their schedule, to get this site operational
11. NDSU: They've started the OSG CE installation several weeks ago; but recent activity