

DOSAR VO

OSG Forum

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- **About DOSAR** <http://www.dosar.org/>
- The **D**istributed **O**rganization for **S**cientific and **A**cademic **R**earch (DOSAR) is a 'grass-roots' grid organization that focuses on community and campus based grids and promotes a wide range of interdisciplinary and educational activities within the organization and its member institutions. Originally, a “regional” support group for D0, we are now international in scope and membership.
- **Research**
- [ATLAS](#) and [U.S. ATLAS](#)
- [CMS](#)
- [DØ](#)
- **Projects**
- [VMWARE-based Condor Pool](#); Grid computing outreach (Brazil, South Africa, Ghana,...)
- **DOSAR Members**
- [Bellarmine University](#)
- [Iowa State University](#)
- [University of Johannesburg](#)
- [Langston University](#)
- [Louisiana State University](#) ([CCT](#))
- [Louisiana Tech University](#)
- [University of Mississippi](#)
- [University of Oklahoma](#)
- [Universidade Estadual Paulista \(UNESP\)](#) ([SPRACE](#), [GridUNESP](#))
- [University of South Alabama](#)
- [Susquehanna University](#)
- [University of Texas at Arlington](#)

Science that is being enabled

- HEP: D0, ATLAS, CMS
- Material science, bio-science and weather
- Paleontology on the Grid
- Cluster development

Plans for the next few months (how we use OSG and changes inside the VO)

- Completion of Tier3 installations within DOSAR
- Develop plans and seek funding to support Grid computing clusters and education in Ghana: hope to have 1st workshop Summer 2012.
- Partner with UJ to merge Paleontology field with Grid computing to create Paleontology computing program in South Africa
- Continue campus grid activities
- Start dialogue with Thai Grid users (?)

Recent activities

- DOSAR Members Very Active in OSG Monitoring, Accounting, Outreach and Education
- Karthik Arunachalam (OU), until recently, has been working on Gratia, GIP, Computing and Storage Capacity Reporting
- Horst Severini (OU) has been very active in OSG and general grid computing workshops
- South Africa Grid School July 2008
- Sao Paulo Grid School December 2008
- GridUNESP Liaison to OSG: Fall of 2009
- Very successful start of GridUNESP VO and OSG compute and storage resources
- OSG Grid School in Sao Paulo: December 2010
- Horst Severini now a global OSG South America Outreach Coordinator (with Jose Caballero)
- UJ/Wits strongly involved in Grid Education as well

Current usage, general status, and issues

- Please find below the Gratia statistics for OSG usage for the DOSAR VO for the month 2011-08-01 - 2011-08-31 (inclusive)
 - Current month's total usage: 2 users utilized 2 sites;
 - 65924 jobs total ($59670 / 6254 = 90.5\%$ success);
 - 88025.9 wall clock hours total ($63709.1 / 24316.8 = 72.4\%$ success);
 - Previous month's total usage: 1 users utilized 1 sites;
 - 7251 jobs total ($33862 / 3389 = 90.9\%$ success);
 - 98148.8 wall clock hours total ($75195.3 / 22953.5 = 76.6\%$ success);

Current usage, general status, and issues

More for Gratia- Site summary:

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SiteName	Job	# Users	# Jobs	Wall	Delta	Delta	Delta Wall
	Success?		Time (h)	Users	Jobs	Time (h)	
OU_OSCER_ATLAS	Yes	1	59668	63709.1	+1	+25806	-11486.1
OU_OSCER_ATLAS	No	1	6254	24316.8	+1	+2865	+1363.2
SWT2_CPB	Yes	1	2	0	+1	+2	0
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CN	Site	VO:Reporting	Job	# Jobs	Wall	Delta	Delta Wall
	Name	Success?		Time (h)	Jobs	Time (h)	
Generic dosar user	OU_OSCER_ATLAS	DOSAR:dosar	Yes	59667	63709.1	+25805	-11486.1
Generic dosar user	OU_OSCER_ATLAS	DOSAR:dosar	No	6254	24316.8	+2865	+1363.2
Generic ocucs user	OU_OSCER_ATLAS	DOSAR:ocucs	Yes	1	0.0	+1	+0.0

Concerns and possible obstacles to implementing this roadmap

- Funding –will apply for NSF funding for travel (mainly)
- Time- manpower

Requirements for new OSG capabilities

- Funding –would like OSG support of our proposal to NSF to fund travel (mainly)
- Time – manpower from OSG(Jose at Ghana?)

Conclusions

- DOSAR is an example of a successful grid organization
 - Critically important asset to DØ
- All groups actively engaged in LHC experiments
 - Active Tier 3 installations for both ATLAS and CMS
- Closely engaged in many different OSG activities
- Continue Desktop Cluster deployment, CONDOR Pools
- Provide leadership role in state-wide grid efforts
- Expanding membership and scope