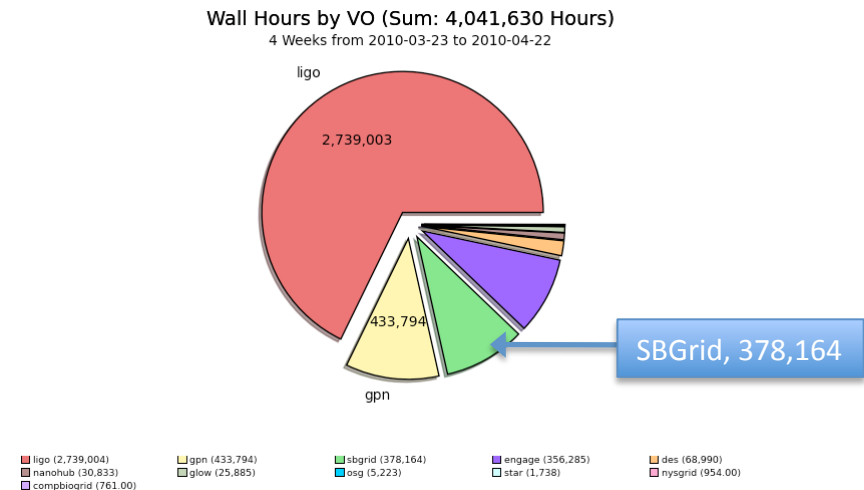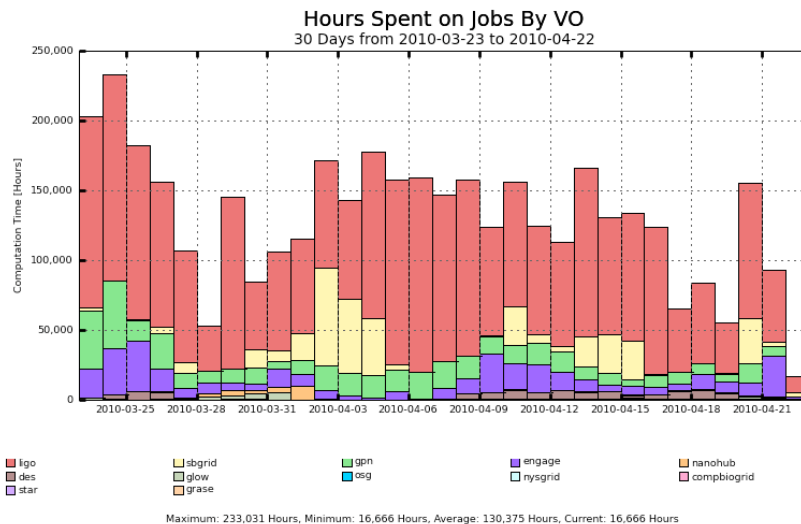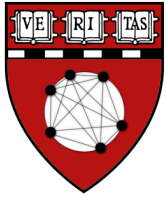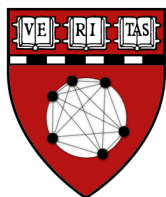## Outreach:

- Running Molecular Replacement with Phaser in near-production status level.
Jobs require constant monitoring and hand holding to diagnose failures and make changes to OSGMM/Condor/wrapper script, and other aspects of the submit infrastructure.

- Running a Molecular Replacement job for a researcher at Yale.
The framework to have end-users run jobs directly on the grid is too cumbersome, so Ian and I do the actual job submission.

- In communication with HMS RITG to install OSG Client, and possibly CE on the HMS collaborative cluster "Orchestra"
They just were awarded a large NSF grant to fund purchase of new ~4000 core cluster.

Hours Spent on Jobs By VO
30 Days from 2010-03-23 to 2010-04-22

Maximum: 233,031 Hours, Minimum: 16,666 Hours, Average: 130,375 Hours, Current: 16,666 Hours

Wall Hours by VO (Sum: 4,041,630 Hours)
4 Weeks from 2010-03-23 to 2010-04-22

SBGrid, 378,164

ligo (2,739,004)   gpn (433,794)   sbgrid (378,164)   engage (356,285)   des (68,990)
nanohub (30,833)   glow (25,885)   osg (5,223)   star (1,738)   nysgrid (954.00)
compbiogrid (761.00)

Operational:

- Continuing to fine tune OSGMM setup. Weekly emails with Mats.

- Ongoing issues with several sites. GOC tickets, some resolved, some ongoing. Certain sites are so saturated with local users there are no opportunistic users.
Some sites are producing hard to diagnose issues, like not returning stderr/stdout.

- Delays with both Panda and GlideinWMS, both are ready for us to install/test as of late last week.

- Upgraded two of our three clusters to OSG 1.2. Process was smooth overall, identified at least one bug and reported to developers.

WBS Status:

WBS_Number	Work_Item	Start_Date	End_Date	Completion	Owners	April 22nd, status
1.0.3	**Biology and Biomedical Outreach**				Sliz	
1.0.3.1	**Establish Robust gateway for submission of jobs to OSG**				Sliz	
1.0.3.1.1	Provide NEBioGrid operational services at 85% reliability measured on a monthly basis	10/01/09	09/30/10		Sliz	current
1.0.3.1.2	Upgrade and fine-tune OSG software on participating NEBioGrid sites	01/01/10	09/30/10		Sliz	2/3 sites updated
1.0.3.1.3	Develop an OSG Branch of HPC Biomedical Applications	01/01/10	03/30/10		Sliz	basic set of apps required for Molecular replacement in place
1.0.3.1.4	Expand the OSG Branch of Biomedical	04/01/10	09/30/10		Sliz	
1.0.3.1.5	**Configure MPI cluster for MD computations**	**11/01/09**	**12/30/09**		**Sliz**	**in place Nov 2009**
1.0.3.2	**Integrate biomedical resources with infrastructure of OSG**				Sliz	
1.0.3.2.1	**Integrate a new biomedical site in New England area**	**01/01/10**	**03/30/10**		**Sliz**	2.1 and 2.2 combined to integrated a new NIH resource center at HMS (4000 CPUs in total). Met with Dean, CIO, and director of IT, and a plan to integrate the site was approved.
1.0.3.2.2	Integrate a new biomedical site in New England area	07/01/10	09/30/10		Sliz	see 2.1
1.0.3.2.3	Provide OSG support for researchers from the participating NEBioGrid institutions	10/01/09	09/30/10		Sliz	Most recent supported users: Prof. Karin Reinisch from Yale. Jawdat Al Basam from Harvard Medical School. The molecular replacement paper is being submitted this week, and we expect more users to utilize the infrastructure soon.
1.0.3.3	**Provide outreach, educational and training opportunities for members of biomedical community**				Sliz	
1.0.3.3.1	Deploy a website to support activities of the NEBioGrid community	10/01/09	10/15/09	10/15/2010	Sliz	in place
1.0.3.3.2	Organize an OSG training session as part of SBGrid user meeting	03/30/10	06/30/10		Sliz	This meeting might be scheduled later in the summer.
1.0.3.3.3	Organize monthly HPC/Grid seminars	10/01/09	09/30/10		Sliz	The upcoming presentation on Grid Computing as part of EMBO Workshop in Heidelberg (John McGee will present)
1.0.3.4	**Submit satellite proposal to NIH that provides a sustainable model for OSG usage in the Biology and Biomedical Science communities.**	11/01/09	03/31/10		Sliz	March solicitation was canceled this year by NIH. Planing for a data archiving proposal with Dan Fraser and Keith Brister will start in the first week of May. The proposal is due in August.