

OSG Area Coordinators

Campus Infrastructures Update

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OSG Campus Program

- Focus on the Researcher (...or Artist)
 - What can we do to increase the throughput of your computing?
- Bosco (<http://bosco.opensciencegrid.org>)
 - Help ease the motivated researcher into a distributed environment
 - Make Bosco bullet proof
 - Broadening the user base
 - <http://display.opensciencegrid.org>
- Campus Infrastructure Community
 - Community building focal point
 - Rob Gardner

Campus Infrastructure Community

- Center where researchers can learn about and adopt campus technologies.
 - Led by Rob Gardner
- First meeting held in November
 - UC Santa Cruz
- Second meeting at the OSG AHM (Mar)
- Monthly “Interactive Forum” meetings now moving to bi-weekly
 - Attendance has been good (~15-20)

Bosco Plan (release ~quarterly)

- Current Version v1.1.2

- Invitation sent out to Condor users mailing list
- Previous Campus grids have been upgraded to Bosco
 - Nebraska, Virginia Tech
- View on OSG Display
 - (<http://display.opensciencegrid.org>)

- Working on v1.2 (April, 2013)

- Focus on reliability, reducing annoyances
- Scaling to 1000 submissions

- Start on v1.3 (July)

- Gratia Accounting (integrated probe)
- SLURM support
- Additional features TBD

New Bosco Developments

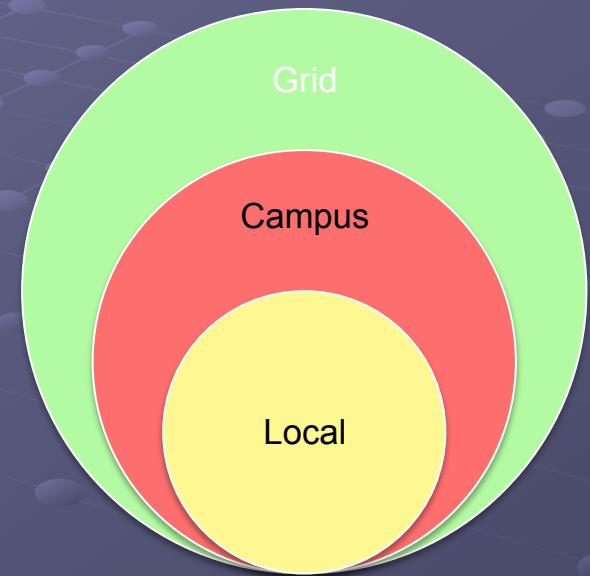
- Bosco invite sent to Condor list
- New Bosco downloads site:
 - [https://twiki.grid.iu.edu/bin/view/CampusGrids/
BoscoAnalytics](https://twiki.grid.iu.edu/bin/view/CampusGrids/BoscoAnalytics)
- New use cases:
 - CMS submission without a gatekeeper.
 - Pegasus HTPC workflow to XSEDE resources
- Exploring an HTC scientific/artistic competition

Campus Grid Issues

- Emerging concern is that Bosco, while making it easier to submit HTC jobs, does not yet meet the needs of the end users.
 - May require integration with an infrastructure
 - Currently exploring “R”
 - This conclusion is in part due to Miha’s efforts so far in user interviews.

Campus HTC Infrastructure Direction

- Help the researcher use local HTC resources
 - Run on a local campus cluster
 - Run on several local clusters
 - Use local authentication credentials
- Use/share resources with a collaborator on another campus
- Access to the national cyberinfrastructure
 - OSG (and also XSEDE) resources



Submit Locally, Run Globally