

OSG and XRootD

US ATLAS XRootD Workshop
September 12-13, 2011

Open Science Grid

- What is OSG?
- What repo do I use?
- What does OSG even do?

Open Science Grid / VDT

- Provides packaged, tested and supported software for storage element (SE), compute element (CE), client, VOMS, etc
 - XRootD comes from SLAC/Cern
 - BeStMan comes from LBNL
 - GridFTP comes from Globus (Argonne, et al)
 - LCAS, VOMS client, etc etc
- OSG Software Team bundles it all together in one yum repo (used to be Pacman)

Yum Repos

- XRootD repository at SLAC:
 - Only has xrootd server, client, fuse and libs
- OSG repository at GOC:
 - Has xrootd as well as many other packages
 - Xrootd uses same source but rebuilt for rhel5
 - “pass-through” RPM
 - GridFTP, BeStMan, voms-client for SE
 - Other CE and client packages
- Recommendation: Use OSG repository

YUM Priorities

- Want to use the XrootD repo anyway?
- Use yum-priorities: “yum install yum-priorities”
- Can add both repositories, ranking them as according to preference
- Lowest number priority (from 1-99) will be used

Other OSG Benefits

- Testing:
 - Internal testing: OSG Software team tests functionality internally in osg-development
 - ITB (Integration Test Bed) sites test full software packages in osg-testing
 - Fully tested packages are sent to osg-production.
- Support / Mailing lists
 - osg-storage@opensciencegrid.org
 - osg-software@opensciencegrid.org