Storage Issues in OSG

- dCache supported for WLCG Tier-2s through the VDT since February.
- 2 US ATLAS sites deployed Bestman/Xrootd SE. Focused work by OSG VDT storage to support this configuration for Tier-2s and Tier-3s by 10/1/08.
- Extensions for authorization and accounting Bestman, dCache – ongoing together collaboration with software development groups.
- Prototype use of opportunistic storage sharing SEs with owner VO – helping D0 improve efficiencies for monte carlo.

dCache OSG issues

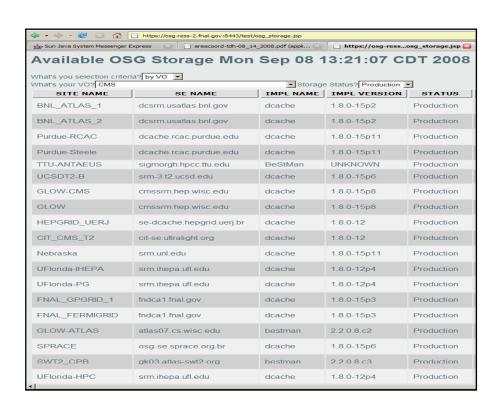
- Poor error diagnostic, exception handling and propagation
- Undetected pool failure
- Billing database performance (not indexed)
- Lack of configuration flexibility in LinkGroupAuthorization.conf
- Inability to get information about space reservation and billing via API.
 - Information Provider will only address access to space reservation information
- Sometimes trivial showstopper bugs are not fixed in the several patch releases, e.g:
 - init.script failure on admin node was introduced in p7 fixed only in p11

dCache in VDT cache

- dCache could be installed from VDT
- Current version is vdt 2.2.8 (dcache 1.8.0.15 p11)
- Distribution contains dCache-server, pnfs, postgress, gratia probes rpms and a configuration script tailored to set up dCache for Tier-2
- Configuration script allows to set up opportunistic storage, replication etc
- Dcache-clients are distributed as a part of VDT client cache

dCache in OSG

 dCache is installed on many OSG Sites:



- Opportunistic storage is in use.
 - DO is using opportunistic storage in USCD, UNL and Purdue:

