

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, postgres, 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:

Available OSG Storage Mon Sep 08 13:21:07 CDT 2008

What's your selection criteria? by VO
What's your VO? CMS
Storage Status? Production

SITE NAME	SE NAME	IMPL NAME	IMPL VERSION	STATUS
BNL_ATLAS_1	dcsrm.usatlas.bnl.gov	dcache	1.8.0-15p2	Production
BNL_ATLAS_2	dcsrm.usatlas.bnl.gov	dcache	1.8.0-15p2	Production
Purdue-RCAC	dcache.rcac.purdue.edu	dcache	1.8.0-15p11	Production
Purdue-Steele	dcache.rcac.purdue.edu	dcache	1.8.0-15p11	Production
TTU-ANTAEUS	sigmorgh.hpcc.ttu.edu	BeStMan	UNKNOWN	Production
UCSDT2-B	srm-3.t2.ucsd.edu	dcache	1.8.0-15p6	Production
GLOW-CMS	cmssrm.hep.wisc.edu	dcache	1.8.0-15p8	Production
GLOW	cmssrm.hep.wisc.edu	dcache	1.8.0-15p8	Production
HEPGRID_UERJ	se-dcache.hepgrid.uerj.br	dcache	1.8.0-12	Production
CIT_CMS_T2	cit-se.ultralight.org	dcache	1.8.0-12	Production
Nebraska	srm.unl.edu	dcache	1.8.0-15p11	Production
UFlorida-IHEPA	srm.ihepa.ufl.edu	dcache	1.8.0-12p4	Production
UFlorida-PG	srm.ihepa.ufl.edu	dcache	1.8.0-12p4	Production
FNAL_GPGRID_1	fndca1.fnal.gov	dcache	1.8.0-15p3	Production
FNAL_FERMIGRID	fndca1.fnal.gov	dcache	1.8.0-15p3	Production
GLOW-ATLAS	atlas07.cs.wisc.edu	bestman	2.2.0.8.c2	Production
SPRACE	osg-se.sprace.org.br	dcache	1.8.0-15p6	Production
SWT2_CPB	gk03.atlas-swt2.org	bestman	2.2.0.8.c3	Production
UFlorida-HPC	srm.ihepa.ufl.edu	dcache	1.8.0-12p4	Production

