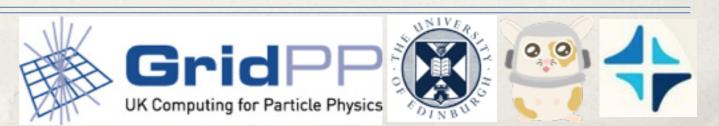
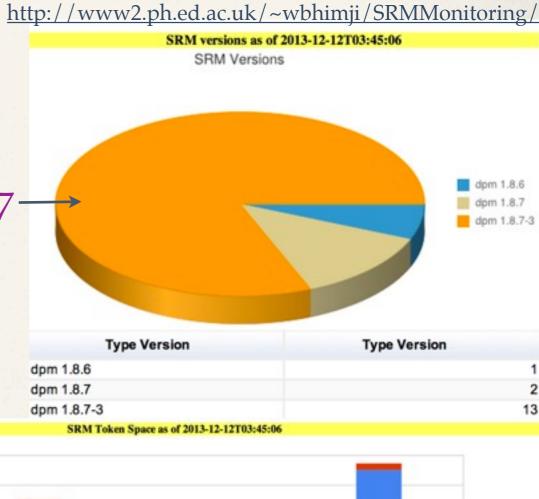
UK DPM sites

Wahid Bhimji (on behalf of UK DPM sites..)



UK stats

- * 13 Tier 2s with DPM: 12 ATLAS, 1 CMS
 - * Soon LHCb too!
- All prod. machines upgraded to DPM 1.8.7
 - * This only checks headnodes though !..
- Over 6 PB provided for ATLAS



The difference a year makes...

- * At time of Paris meeting a year ago there was concern about future of DPM... Alessandra put it like this:
 - Everybody playing cool but most sites are extremely worried at the idea of changing storage

Even during the gap year it will not be easy if this happens

- Lots of accumulated experience will be lost
- * Changing away from DPM isn't being considered anymore (for most people) and even there may be some new DPM sites...
- Thanks to a successful collaboration which we are happy to continue to play a role in...

Heavily involved in data federation and xrootd / webday

* ATLAS FAX:

Production(ish) level: fallback saving jobs

 Also UK had some of the first DPM WebDay sites

 Now most have been renamed for ATLAS "rucio" via this interface.

http://dashb-atlas-ssb.cern.ch/dashboard/request.py/siteview#currentView=FAX+endpoints

Site Name -	Direct 0	Upstream redirection	Downstream redirection 0	X509 O	response time 0
UKI-NORTHGRID- LANCS-HEP	ОК	ок	ок	On	0.46
UKI-NORTHGRID-LIV- HEP	OK	ок	ок	On	0.42
UKI-NORTHGRID-MAN- HEP	ОК	ок	ок	On	0.35
UKI-NORTHGRID-SHEF- HEP	ОК	ок	ок	On	0.41
UKI-SCOTGRID-ECDF	ОК	ок	ок	On	0.45
UKI-SCOTGRID- GLASGOW	ОК	ок	ок	On	0.45
UKI-SOUTHGRID-CAM- HEP	ОК	ок	ок	On	0.39
UKI-SOUTHGRID-OX- HEP	ОК	ок	ок	On	0.36

http://pandamon.cern.ch/fax/failover?hours=12

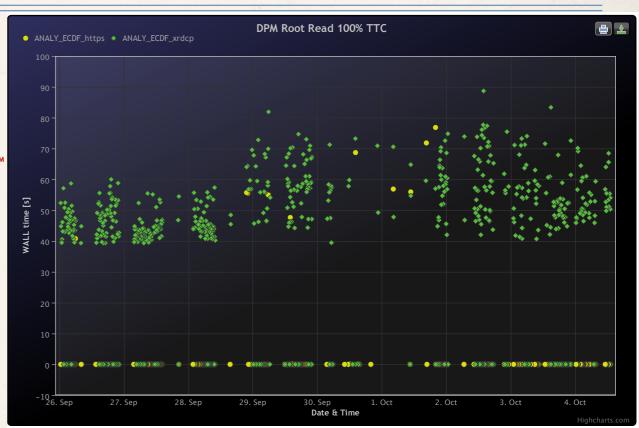
Panda report on jobs failovers to FAX over last 2 hours

Show	ALL + entries									Si	earch:		
	Sit	le .		Jobs	0 V	VithFAX [files]	٥	WithoutFAX	[files] 0	WithFAX [GB]	0	WithoutFAX [GB]	
•	UK: ANALY_LANCS_SL6			4		8	58			6.77		49.47	
	PandalD	Time		WithFAX	WithoutFAX	WithFAX [GB]	Wi	thoutFAX [GB]	Status	User			
	2000604967	2013-11-27 19:	4:06	1	9	767065005	8	691849935	finished	Marcello Barisor	nzi		
	2000818581	2013-11-27 20:0	5:03	2	22	1570478416	17	7893986663	failed	Pedro-Salvador Urrejol	a-Pere	ira	
	2000863746	2013-11-27 21:0	1:40	4	20	3057296769	14	4840156725	finished	Pedro-Salvador Urrejol	a-Pere	ira	
	2000884731	2013-11-27 19:	18:19	1	7	1879390213	1	1689090603	failed	Thijs Cornelisse	en		
0	US: ANALY BNL	SHORT	T	2		2		24		2.05		20.82	ī

* Also enabled DAV on RAL LFC - exploring use for small VOs - use via gfal still being explored : see ggus.

Testing - development etc.

- Regular tests for our testbeds (Glasgow / Edinburgh) and CERN
- * IPv6 Testing at Glasgow (also IC, R K S Brunel and Oxford)
- Puppet; S3; interest in HDFS
- StAR accounting (from John G):
- Liverpool, Lancs published in APEL
- * Minor bugs: script in EPEL rpm; dbg printing. Otherwise worked smoothly.
- Review docs; verify data -> more sites
- Prototype portal view, not live data yet



Vendor collaborations: DDN, Dell



Grumbles....

- Brunel xrootd server is unstable (related to CMS federator) David Smith knows and is following up with Raul...
- * Occasional xrootd instability at Glasgow (and Edinburgh) traced to dmlite mysql interaction ... in progress...
- * Load issues better with xrootd (and direct IO) but still spikes so load limiting still needed (xrootd v4?), and rebalancing (in progress...).
- * Xrootd IPV6 report (also in xrootd v4?)
- * LHCb (lcg-gt returning xrootd TURL) issue personally I'm not sure about the continuing use of SRM for this but its what they want / not unreasonable and seems in-progress according to Jira

StAR accounting

Conclusions

- DPM bigger than ever in UK and working well for us.
- * Successful adoption of 1.8.7 now complete.
- Xrootd and Dav interfaces in widespread use.
- * Testing and exploration of other backends ... use cases appearing
- * Some niggles, need to stay constantly vigilant!

