

DPM Experience during CCRC08

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- Current DPM configuration at GRIF/LAL (2 other similar SEs)
 - 1 head node
 - 5 disk servers : 4 Thumpers + 1 SAN-based, 20 TB/server, 1 Gb/s per server
 - 10 Gb/s core network and external link
 - SL4 64-bit + DPM 1.6.10
 - 2 main pools : Atlas + others, 4 FS per disk server (4TB)
- Demonstrated 250 MB/s sustained in Atlas transfers
 - No specific tuning done, probably room for improvements
 - Not far from HW limit with 1 Gb/s : bonding possible (4x1GbE), 10 GbE available but for other use currently
- Drained old file servers in the last months : cured most DB problems
 - Configuration mistake 2 year ago + srmAbort bug

- DPM ran smoothly during phase 2
 - Most sites running 1.6.7-4, GRIF (and others) 1.6.10
 - Space tokens published into BDII
- Minor issue with ATLASGRPDISK that should be restricted to several FQAN (physics groups)
 - Currently only one FQAN permitted, agreed as a short-term change (Sept.)
 - Not used during CCRC08
- Main uncertainty is xrootd plugin : installed at several sites but no ALICE activity during CCRC08
 - Current installation procedure requires a lot of manual steps for installation and configuration
 - Would help to have RPM for every component for easier deployment
 - Just received information it is available
- Main issues : file system balance, failed servers handling

- Advanced monitoring tools is one of the weakness of DPM
 - Digging in the log is the main source of information...
- Greig Cowan (Edinburgh) recently contributed a monitoring tool for DPM
 - http://www.gridpp.ac.uk/wiki/DPM_Monitoring
 - Direct queries to DPM database
- Testers welcome
- May be worth for integration in future DPM releases if it proves to be useful
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