

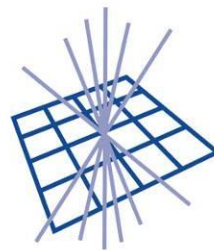
HEPSYSMAN

Summary of Storage Workshop

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Science & Technology
Facilities Council



GridPP

UK Computing for Particle Physics

... and the winners are ...

- Upgrading {head,pool} node from SL6 to 7 (resp. CentOS7, etc.)
 - Switch to DPM DOME (= SRMless T2 with DPM)
- xroot proxy cache
 - How effective is it, given experiments current (and future) access patterns
 - What are the future access patterns?
- Dualstacking with IPv6



... also in the envelope ...

- Meltdown and Spectre patching
 - Impact & discussion (postponed to today)
- Ansible playbooks
 - Also configure network

Runners up (>1 vote)

- ZFS
 - Specifically migrating Solaris ZFS → Linux ZFS?
- Future T2 sites
 - Large disk servers = 60x 10TB disk
- Data Lake
 - (Azure's data analytics facility)
 - Resp. datafactory

More Exotic Topics

- Erasure code data across sites
- Using IPv6 features (ignoring IPv4), incl IPsec
- HTTP as GridFTP replacement
 - SciToken for HTTP access (vs Macaroon)
 - Ongoing/future use case for Globus Connect?
- GridPP - and UKHEP - in the UKT0 landscape
 - DTZ -
 - Hybrid with cloud: HPC/Grid/cloud (cf Crick workshop)



Next Steps

- Doing some Real Work™
 - Like the CIP
- Presenting at GridPP40
- Upcoming UKT0 meeting in March



And while I'm on the topic of Real Work™

PATHFINDER

Pathfinder Round up

- Assume you know the background...?
 - If not, see linked GridPP presentation
- *In nuce* (GridPP's part only)
 - Moonshot-enabled portal to get personal certificates *instantly* (~seconds)
 - Goal: Trusted by the IGTF

Pathfinder Status

- Project has finished
 - Need client code install (mech_eap.so)
 - Also Windows (Moonshot-AMD64-full-1-0-86-0.msi), Mac support
 - Updated putty client for Windows
- CA portal exists
 - Not yet IGTF accredited (ongoing)
 - No trusted IdPs yet
 - No IdPs publish correct metadata yet (except STFC's?)
 - Huge chunk of Perl code, could be refactored
 - Still needs interfacing to HSMs when accredited

Pathfinder Future

- ... we will keep running it
- Push for IGTF accreditation
 - Slow process!
- Needs more proper IdPs
 - With the right attributes
 - Could replace UK eScience CA for personal certs
- <https://pathfinder.stfc.ac.uk/>