

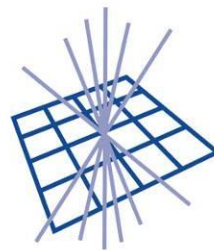
# HEPSYSMAN

## 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/>