



Queen Mary
University of London

Particle Physics Research Centre
Site Report 2010

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Context

Group

- 12 Debian Servers
 - File/Print/Auth/Web/Email/Boot
 - 50TiB (Real Soon Now)
- 10 Windows Desktops
- 20 Debian Desktops
- 30 Laptops
- 3 2810-48G Switches
- 24 Rackmount
 - Interactive & Batch
 - 150 CPU cores

HTC

- 1400 CPU cores
- 300 TiB Storage
- 1Gb Dedicated Link
 - 100%

The Group

- 9+3 Academics
- 17 Research Staff
- 10 Research Students



Last Year: Servers

- Hepserver Upgrade
 - FC4 → Debian 5 (overdue!)
 - NIS/NFS/Samba HP DL380G5
 - Web Server upgrade
 - Debian 4 → 5
 - Backup system
 - LTO2 → LTO4 HP DL380G5
 - Sun Grid Engine Upgrade
 - 6.1 → 6.2u5
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Last Year: Desktops

Our Old Standards

- NEC VL360
- NEC VL370
- Stone PCs (only 2)

New National Agreement

<http://ndna.procureweb.ac.uk/desktop/>

Viglen, Stone, RM, Dell and HP (supplied via DTP and RM)

- Dell T4700 - CAD workstations
- HP dc5850 - from DTP - New Standard PC



Last Year: Laptops

Our Old Standards

- Dell Latitude D series

New National Agreement

<http://ndna.procureweb.ac.uk/notebook/>

Toshiba (supplied via Getech, Viglen and XMA),
Samsung (supplied via Getech and Stone),
HP (supplied via DTP and RM),
Ergo (direct) and Dell (direct)

- Dell Latitude E series (normally 13")
- Apple MacBook Pro 13"

<http://apple.procureweb.ac.uk/>



Last Year: HTC

- Taking 30% of UK Atlas data share
 - Did pretty well in the last hammer cloud tests
 - Migrated to SL5 x86_64 worker nodes
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Server Room



- Physical Security
 - Code Lock
- Risk Assessment



Air Conditioning



Problem:
AirCon Leaks!

Solution:
Indoor Guttering!





Next Year: Group

- Windows 7
 - Skipped Vista... Phew!
 - *Unattended.org ? *Wpkg ? *DriverPacks.org ?
 - Debian 6.0 “Squeeze”
 - SL5 x86_64
 - Roll out
 - Firewalls
 - Are they working?
 - IPv6
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Next Year: HTC

Procurement

- Treble Storage to ~1 PetaByte
- Double CPU to ~3000 CPU cores

Recruitment

- Double Sysadmin to ~2 People !

Issues

- Lustre – Oracle bought Sun
 - Ceph – Client now in Linux Kernel
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That's All Folks...

Questions???

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