

## Queen Mary University of London

### Particle Physics Research Centre Site Report 2010

Alex Owen Cozmin Timis Chris Walker



### 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
  - $-6.1 \rightarrow 6.2u5$



# 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 worksations
- 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



## Server Room

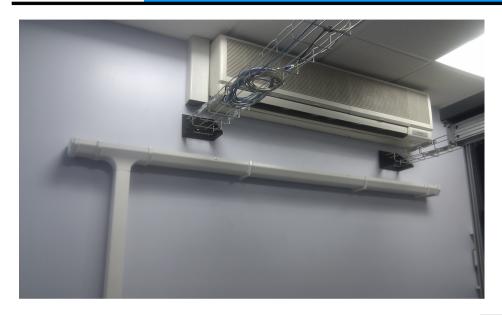


- Physical Security
  - Code Lock

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



## 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



### That's All Folks...

Questions???

Alex Owen r.a.owen@qmul.ac.uk

Cozmin Timis c.timis@qmul.ac.uk

Chris Walker c.j.walker@qmul.ac.uk