Glasgow Site Report

July 2009

A. Pickford

University of Glasgow | Experimental Particle Physics

Desktops/Laptops

- Desktops

  - ~ 50 'front line' desktop/lab pcs + older pcs

  - some SL5 but mostly SL4 (with a few SL3) or WinXP

  - current spec 2.8 GHz dual core cpu, 4 GB ram

  - unattended install (kickstart) for SL + cfengine configuration

  - unattended install for WinXP (in progress)

- Laptops

  - ~ 40 laptops

  - various types, specs and OSes (linux, windows & macs)

  - 'standard' installation - dual boot SL5 & WinXP

  - but moving to WinXP + virtualisation for SL

University of Glasgow | Experimental Particle Physics
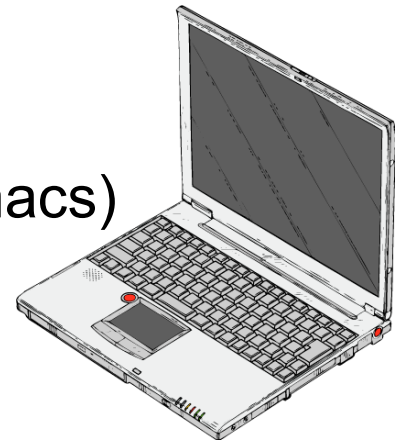
Batch System

- New batch system purchased over last year

- 3 x 1U Intel boxes, 2 x systems per box

  - 2 x 2.50GHz Quad core processors, 16 GB ram

  - torque/maui

  - scientific linux 4 (64 bit)

  - on/off usage pattern - either fully loaded (30%) or nothing

Servers

- 2 storage machines

  - 48 x 1TB discs, raid 6 ~ 72TB usable storage

- New server machines

  - Quad Core 2GHz Xeons

  - More robust: raided system discs, virtualisation

- Older server machines

  - 1GHz Opterons

- New firebridge box between PPE network and outside world

- Mostly SL5, some legacy SL4 systems + Windows 2003 server

University of Glasgow | Experimental Particle Physics

Services

- Disc access via nfs and samba

- Backup – to disc, using dirvish, 6 month history

  - User home areas only (20 GB per user)

  - Backup machine now located outside the physics building

- Typical user facing services:

  - local web pages and new TWiki

  - printing

  - subversion repo

  - windows terminal servers

Tier 2.5

- Integrates PPE storage machines with local ScotGrid nodes

  - each storage machine on both the PPE and ScotGrid subnets

  - allows grid jobs (of local users) to access local group storage

  - security/convenience compromise

  - any compromised ScotGrid node opens up all of the exported PPE file systems

  - lesson: really should move away from nfs

University of Glasgow | Experimental Particle Physics

Subnet Move

- Glasgow University subnet 130.209.0.0/16

- PPE group on 194.36.1.0/24

- Headaches all round as 'odd man out'

- Moving to subnet inside university subnet

- Frees up old subnet for ScotGrid to use

Future

- More virtualisation
  - Servers: buy fewer but more robust servers
  - Laptops: trying out Sun's Virtualbox
- Subnet move
  - opportunity to tidy up the networking