

Imperial College HEP Site Report

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RAL

General Hardware

- 12 nodes for general access (batch, email, etc.)
 - RHEL4 (33% i386, 66% x86_64)
- ~15TB storage for experiments/local users
- Various servers
 - NFS, Kerberos, LDAP, Web, Email, CUPS, Monitoring, etc.
- 2 Windows 2003 Domain Controllers
- 1 Windows 2000 Terminal Server

Grid Hardware

- Clusters
 - 50 2GHz Woodcrest nodes
 - 4GB RAM, dual socket, dual core
 - Access to local users but not to home directories
 - 40 1GHz P3 nodes
 - 1GB RAM, dual socket
- ~50TB storage (dcache)
 - ~800Mbit/sec transfers recently
- 20 nodes for PPS, GridCC, etc.

Desktops

- ~100 Windows XP machines
 - No upgrade to Vista in the near future
 - Will be moving to RHEL5, Fedora7 soon
- ?? Laptops running XP, Fedora, OS X
 - Not managed centrally
- ~15 Linux machines (i386, x86_64)
 - No more 32bit installs for new hardware

Progress

- Moved authentication to Kerberos
- Move to LDAP in progress (no more NIS)
- Puppet replaced cfengine
- SGE as a batch system
- Still haven't managed to get rid of all RHEL3 installs (grid software)
- The clusters use the grid tarball (no more badly written rpms in the system)

Plans for the future

- Upgrade everything to RHEL5
 - Fedora for some desktops
 - Grid software still struggles to support RHEL4 so no upgrades there
- Increase XEN usage
 - Add iSCSI to fully separate software and hardware
- Migrate to NFS4
 - With Kerberos authentication where possible