

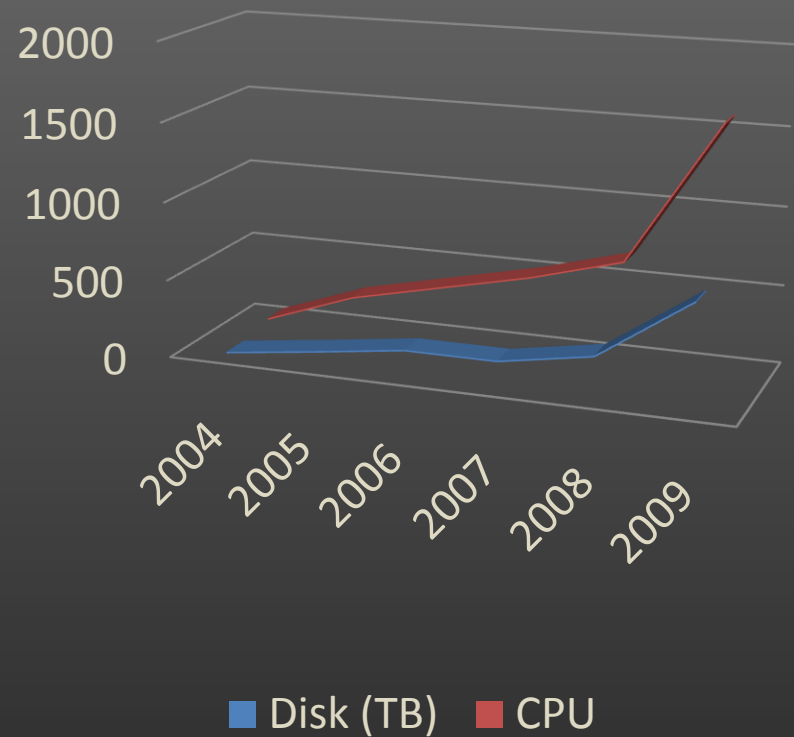
RAL PPD Site Update and other odds and ends

Chris Brew

Tier 2/3 This Year

- Large expansion:
 - 960 extra Job slots
 - 400 TB more disk
- Total Now:
 - 1584 Job Slots
 - 650 TB of Disk

Tier 2/3 Growth



dCache Upgrade and Reconfig

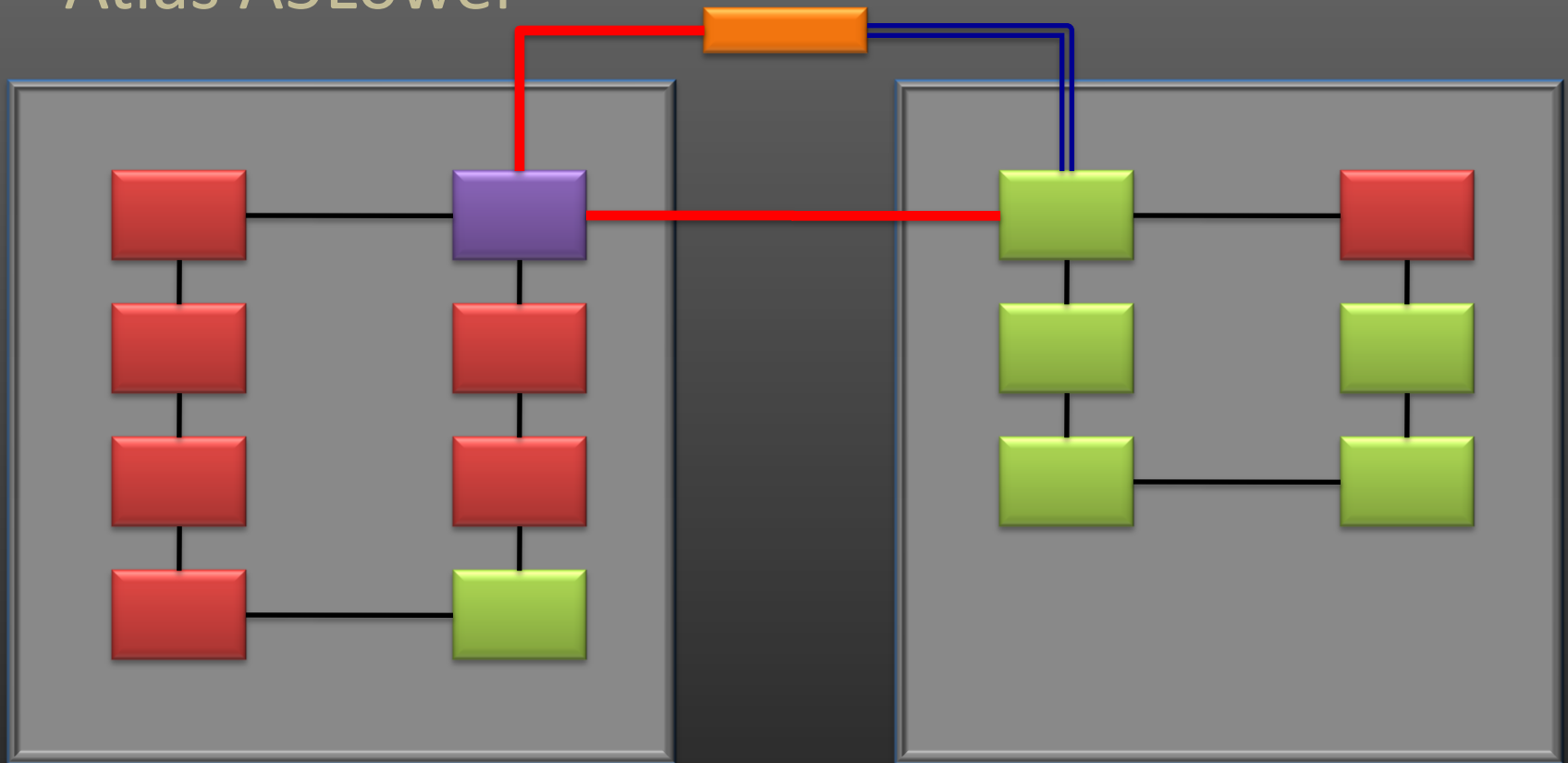
- Major dCache upgrade and reconfiguration
 - Split head node into SRM and dCache Core nodes
 - Replaced PNFS namespace with chimera
 - Now at the “golden release”
 - Simplified configuration
 - One pool per server
 - Individual pool groups for major VOs
 - Minor VOs share “gen” pool groups
 - Quota’d but setting default space tokens
 - Causes problem with space publishing

BigMem Worker Nodes

- Upgraded 40 WNs to 4GB/core
 - Supermicro twins, 2xQuad Core CPU so each node has 32GB memory
- Still setting up but will quickly enable “hidden” 8GB queue on lcg-CEs
- Will allow 16 or 24GB jobs via Glite-CE when we’ve installed it.

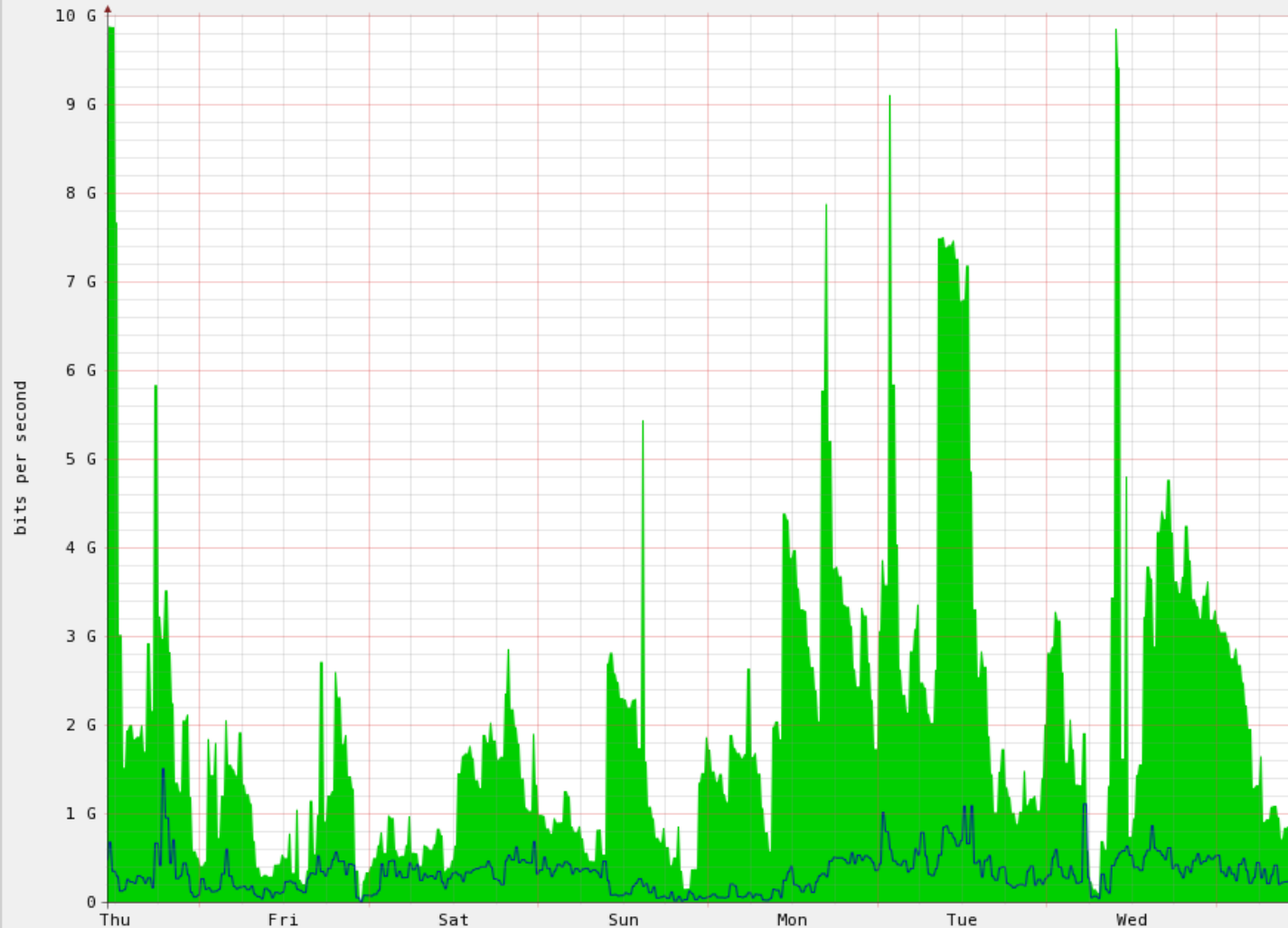
Network Upgrade

- Installed 10Gb/s Link between R1 Lab 8 and Atlas A5Lower



Stack2 - Traffic - ifc690 (Slot: 6)

PROTOCOL / TOBI OETIKER



From 2010/06/03 10:52:43 To 2010/06/10 10:22:43

Direction	Current	Average	Maximum
Inbound	850.11 M	2.12 G	9.94 G
Outbound	245.90 M	330.50 M	2.08 G

TWiki

- Still slightly pre-production
 - Though some groups already using it
- Uses grid certificates for authentication

Windows News

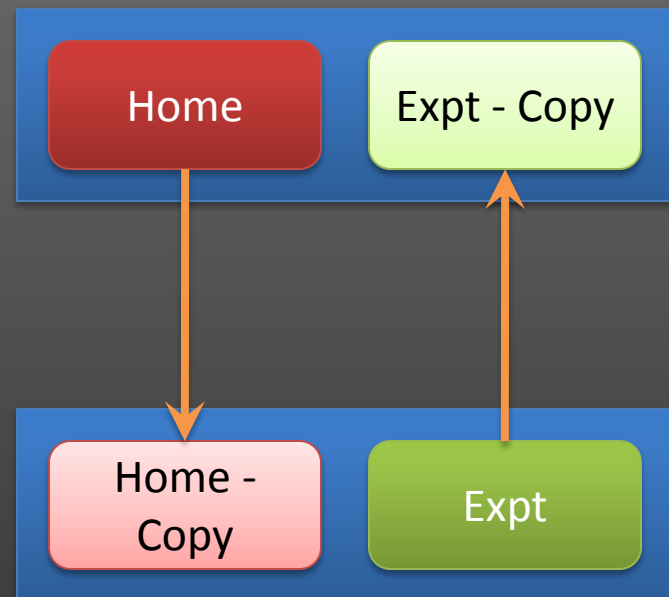
- Domain Controllers and Most Servers upgraded to Windows Server 2008
- Windows 7 (64bit Professional) being rolled out on Desktops (and a few Laptops)
- Home File System now available via WebDAV
 - On Site, Via PPTP + a few sites that block PPTP

Support Matrix

OS	Desktop	Laptop
Windows	Fully Supported	Fully Supported
Mac OS X	Not Supported	Best Effort
Scientific Linux	Supported	Not Supported
Other Linux	Not Supported	Not Supported

Home File Server Failures

- Had Pair of servers for user files
- Identical Server + SCSI Raid Shelf
- Mirrored every few hours with rsync
- Both failed within a few weeks of each other
- Now on 2 Old Grid Disk Servers



Power and Cooling Issues

- A number of Power and/or Cooling related outages – should result in improvements to the 30yr old infrastructure
 - Moved off an overloaded and failing Sub Station
 - Had full inspection of test of our electrical Installation
 - Currently on temporary air conditioning while the plant room is fully refurbished

Next Year

- New Bastion Host
 - Host for Mice in place – lockdown is not trivial
- New Home File Servers
 - Will look at LVM Snapshots for this
- Upgrade the core network to 2x10Gb/s Links
- Explicitly on the Tier 1 tenders for Disk and CPU this year to spend the GridPP Money