Site Update

University of Sussex

Emyr James

# Staff

Particle Physics

- Emyr James
- Matthew Mottram

IT Services

- Jeremy Maris
- Tom Armour
- Chris Jenkins

# Data Centre

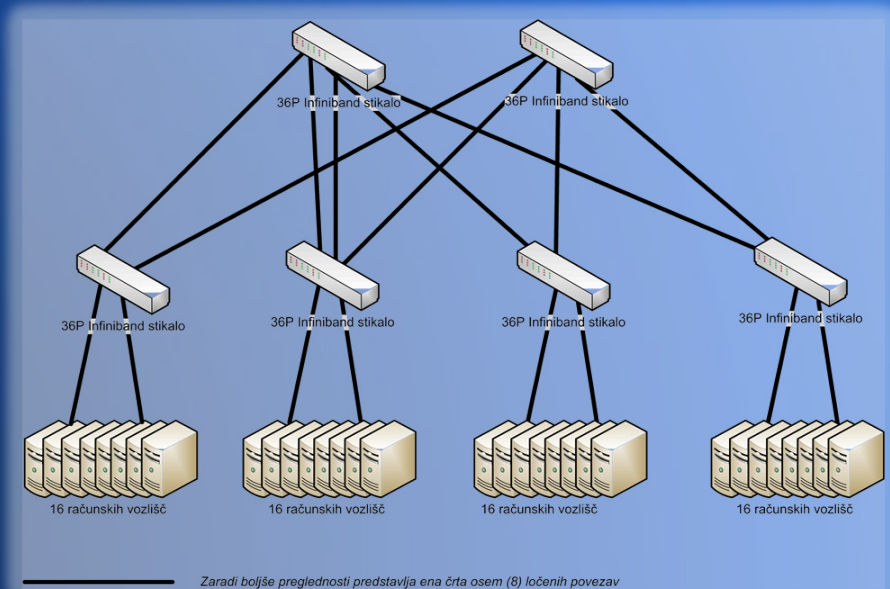# DRI Purchase

- 4 36-port Infiniband switches (brining total to 6)

- 20 Infiniband Cards

- Lots of Infiniband Cables!

- Monitoring Box with 2 10GB Cards

- 4 more R510's to expand Lustre FS

# Cluster Merge

- Arranged IB switches in Fat Tree topology

- Merged feynman (EPP) and Apollo (ITS) into one Cluster

- Also 2 Other clusters (Blades & Zeus)
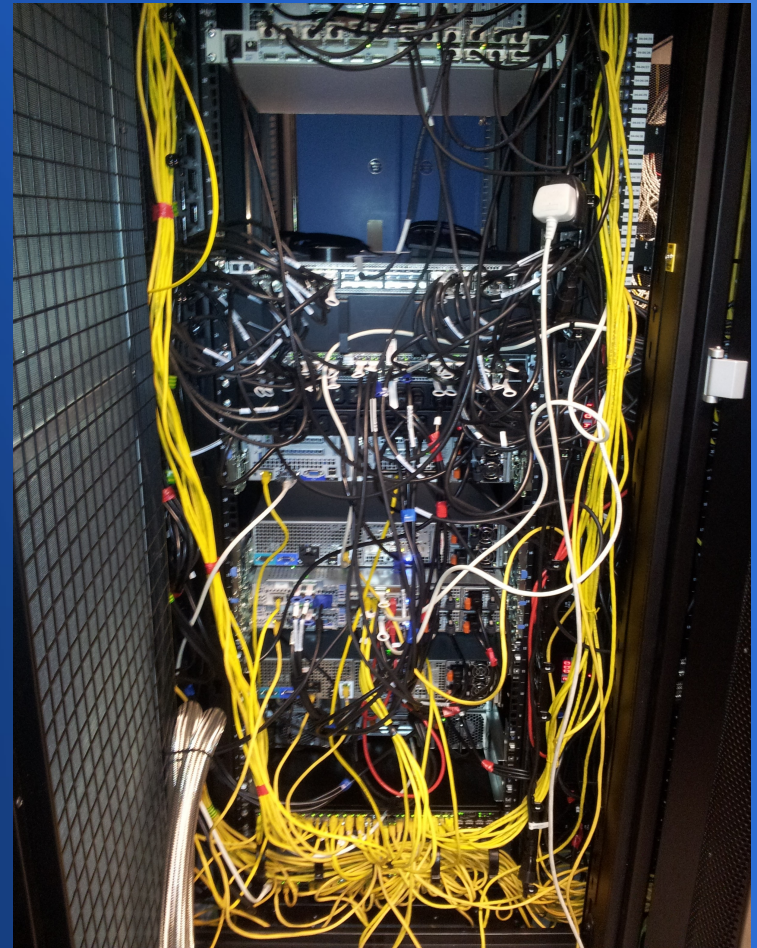
- Univa Grid Engine

# Cluster Merge

- 18 R410's 12 cores Intel x5650 48GB RAM (4GB/core)

- 3 C6100's (another 12 nodes as above)

- 2 AMD Nodes – 48Cores, 256GB RAM

- Loan of C6145

# Lustre FS

- Originally 3 R510's with 2 MD1200's each

- 9 OST's (1TB Disks)

- 81TB Formatted

- Added 4 more R510's with 2TB disks

- Total now 144TB

- 7 OSS's 13 OST's

# Gridification

- 4 Service Nodes : BDII, Apel, Cream-CE, Storm
- All built, BDII & Storm seem to be working
- Cream-CE : Able to submit, problem with stageout.
- Certification Procedure
- Dteam, Ops, Atlas, Snoplus

# Future

- Good relations with ITS and other HPC users
- Internal Mini-Conference / Workshop
- HPC Wiki
- All kit into central pool
- Grid jobs to fill all spaces as well as dedicated hardware
- EPP trying to get £40K in October
- Tier 2 Imminent

# Questions?