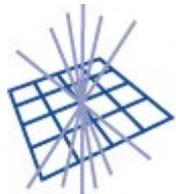


CCRC08 Phase 1 RAL's Perspective

Derek Ross
STFC(RAL)
D.Ross@rl.ac.uk



GridPP
UK Computing for Particle Physics



Science & Technology Facilities Council
e-Science

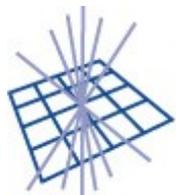
Problems Before

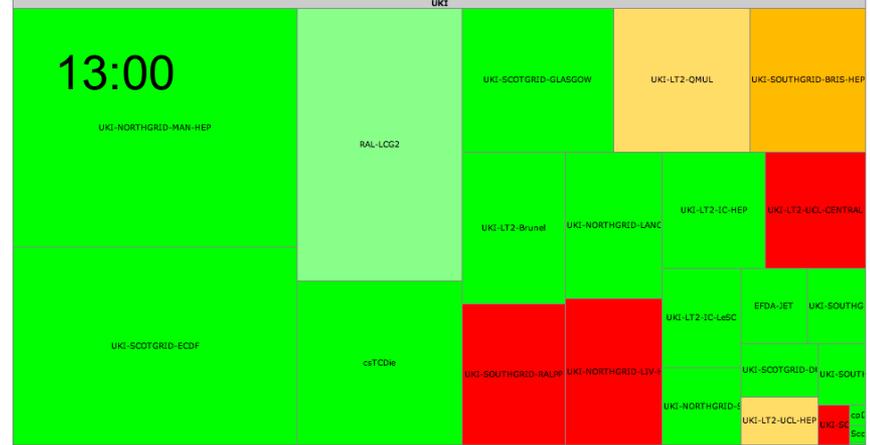
- Experiment Requirements
 - Differing levels of detail
 - Information trickling out by multiple routes
 - GSSD twiki, Broadcasts, presentations
- Baseline Services defined in advance (good)
 - But not all available until **very** late on



Problems During - Power

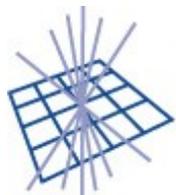
- Who turned out the lights?
 - Power Cut on 7th Feb RAL machine room
 - Getting the word out
 - GOCDDB down, site exchange servers down
 - No EGEE-broadcast, no e-mail
 - Phone
 - Need to distribute/replicate national services
 - Gridmap shows about 4 hours of failures for UK T2s
 - <http://www.gridpp.rl.ac.uk/blog/2008/02/18/review-of-the-recent-power-failure/>





Problems During - Castor

- Tape migration rates poor
 - Affecting CMS and Atlas
 - read/write contention?
- Space Tokens
 - Atlas began writing using a lower case Space token
 - Apparently stopped with no one changing anything
- Disappearing Space
 - Info provider bug and deletes not working



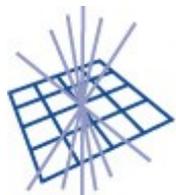
Problems During – SRM

- Negative file sizes
 - Correct inside Castor, but incorrect in gridftp logs and lcg-ls output
- Connection hangs
 - Lasts 10-45 minutes
 - Only affecting Atlas

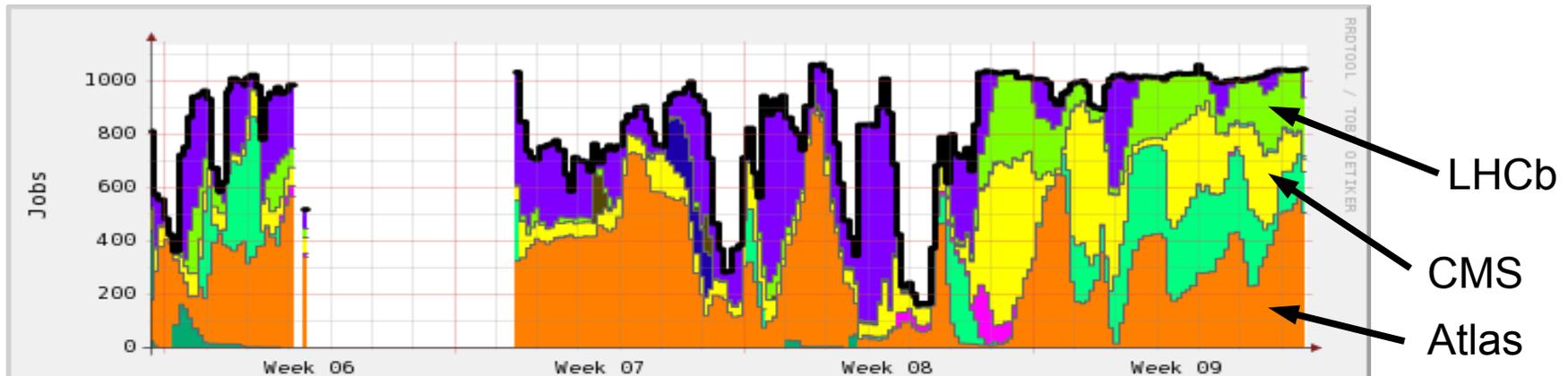


Problems During - FTS

- Little time to test due to last minute release
- Proxy renewal problem
- New release broke our setup
 - Custom cloud configuration for CMS
 - Couldn't use automatic tools, endpoints added manually



Common Running

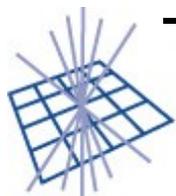


- Mapping issue only allowed 1 LHCb job to run at a time – DIRAC Issue (21-22 Feb)



Plans

- Castor
 - Move to 2.1.6 (March) - *Done*
 - SRMv2 moved to SL4 64bit – *Not Done*
 - Tape migration issues - *Testing solution*
 - Repack testing using CCRC08 data - *Not Done*
 - Backend DBs moving to Oracle RAC - *Not Done*
 - Storage ramp up - 180 more servers from April - *Hopefully Nearly Done*
 - Alice - xrootd - *To Be Done*



More Plans

- Move LFC to Oracle (April) - *Done*
- Network reconfiguration - *Happening today*
- Deploy new worker nodes - *Soon*



Summary

- **Success**
 - Problems were overcome
 - Experiments happy
 - CMS and LHCb achieved higher than expected rates
 - SRM v2 now deployed and in production
- **Lots** done for May
 - But not everything that was planned
 - Still things to do

