

LHCb Planning

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SHORT-TERM PLANNING

Operations

- Planning until Summer

- Incremental Stripping to be started in April

- Will be limited by the performance of the tape systems
- Reminder on needed bandwidth for tape recall (MB/s)

| CERN | CNAF | GRIDKA | IN2P3 | PIC | RAL | SARA |
|------|------|--------|-------|-----|-----|------|
| 50 | 153 | 124 | 134 | 39 | 111 | 104 |

- Operation will last for 8 weeks
- Next incremental stripping planned for fall '13
- Otherwise mainly Monte Carlo and User activities
- CERN CASTOR to EOS migration close to be finished

(preview on currently ongoing discussions)

MID-TERM PLANNING

CVMFS deployment

- LHCb sticks to the target deployment day
30 April 2013
 - No more software updates after that day at the “old shared software areas”
- Usage of the dedicated mount point for our “conditions DB” currently under discussion
 - To be used in production after LS1
 - Structuring of the online conditions also under discussion, will have impact on usage

Tighter integration with T2 sites

- Currently ongoing discussion on how to integrate some T2 sites into more workflows
 - Minimum requirements will be published
 - E.g. X TB of disk space, Y number of WNs, etc.
 - Those sites will be able to run e.g. also analysis jobs from local disk storage elements
 - Better monitoring and “performance measurements” of those sites will be needed
 - Publish LHCb measurements into IT monitoring (SUM, Dashboard)

FTS3 integration and deployment

- Currently ongoing discussions about needed features for the experiment and their implementation
 - E.g. Bringonline, number of retries,
- Test instance with all needed functionality close to deployment

Federated storage

- Federated storage usage will be implemented
- Decision on technology (xroot, http) not yet taken but shall be only one of them
 - Idea to use fallback onto other storage elements only as exception

WLCG Information System

- Very good abstraction layer to underlying information systems
 - Can replace several e.g. BDII queries currently implemented within DIRAC (CE discovery, ...)

Monitoring

- LHCb will feed its monitoring information into the IT provided infrastructure (e.g. SAM/SUM)
- Better monitoring and ranking of T2 sites will be needed
 - Thresholds to be introduced
- Better information to be provided to sites to find out about LHCb's view on them
 - Eg. “why is my site currently not used”
 - Will be also provided through the Dirac web portal

Other efforts to keep an eye on

- perfSonar
 - Will be helpful for network monitoring, especially in view of T2 integration into more workflows
- SL6 deployment
 - LHCb software pretty well decoupled from WN installation, no major problem foreseen
 - First full slc6 based software stack to be released soon
- glExec
 - Is being tested within LHCb grid software

Internal Reviews

- LHCb is conducting 2 internal reviews
 - Of the fitness for purpose of the distributed computing system (based on DIRAC)
 - Of the Computing Model itself
- Both due to report ~ mid 2013

Conclusions

- Major trends are available
 - Federated storage, T2 integration, more monitoring
- A final planning and technical decisions will be available after the closing of the currently ongoing reviews of Dirac and the computing model