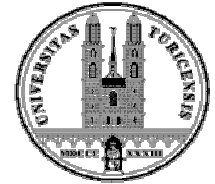


CSCS / CHIPP Grid Workshop LHCb

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LHCb



Overview

- Tier-3 Report
- Data Management
 - Tools
 - Strategies
 - Data Rates for CSCS
 - Plans



Tier-3 Report

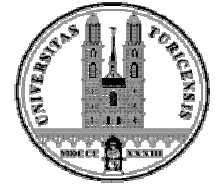


Clusters

- Zurich HEP Cluster:
 - Intel Cluster, 32-bit, openSUSE
 - DIRAC installation
 - Size of requested Tier-3 at the end of the year
- Zurich Matterhorn Cluster:
 - AMD Opteron Cluster, 64-bit, SuSE
 - DIRAC installation
 - Used by other institutes, use "spare" CPU time
- Lausanne:
 - No information



Tier-3 Report



Problems (Tier-3)

- DIRAC:
 - Some python compatibility problems on 64-bit architecture
- Middleware:
 - Middleware does not run on openSUSE
 - Run commands in sandbox

Problems (general)

- Certificates:
 - VOMS roles are not correctly set on all sites
 - New CERN certificates don't work with dCache



Data Management



Tools

Most of the data transfers will be done with DIRAC commands and DIRAC jobs.

DIRAC commands:

- `dirac-rm-copy <file> <SE> [path]`
- `dirac-rm-copyAndRegister <lfn> <fname> <SE> [<GUID>]`
- `dirac-rm-get <lfn>`
- `dirac-rm-remove <lfn>`
- etc.



Data Management



Strategies

Data distribution:

7 month data taking:

- RAW data → CERN and 1 Tier-1
- Reconstruction at a Tier-1
- Stripping at a Tier-1
- Stripped DST → CERN and all Tier-1



Data Management



Strategies

2 month reprocessing

- Reconstruction and stripping at a Tier-1
- Stripped DST → CERN and all Tier-1

1 month additional stripping (twice a year):

- Reconstruction and stripping at a Tier-1
- Stripped DST → CERN and all Tier-1



Data Management



Strategies

Data storage:

Keep latest and next to latest set of stripped DST on disk.



Data Management



Data Rates for CSCS

- 7 month data taking
Stripping: 8 MByte/s
- 2 month reprocessing
Stripping during reprocessing: 27 MByte/s
- 1 month additional stripping (twice a year):
Additional stripping: 53 Mbyte/s



Data Management



Plans

Setup analysis infrastructure

- Coordination with LHCb computing group
- Working storage element
- VO-Box