CERN IT Department

CCRC'08 Metrics for the Physics Database Services

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Physics Database Metrics during CCRC'08 (Feb. 08) at Tier0

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Scope: measure our degree of readiness - e.g. in terms of service availability for the CCRC'08

Metrics for the RAC clusters

- Concurrent sessions per node (dual CPUs): 300
- Disk I/O throughput
  - Average measured physical reads: 100 MB/s
  - Average measured physical writes: 20 MB/s
- Available server CPUs per experiment
  - ALICE 4 CPUs, ATLAS & LHCB 12 CPUs, CMS and WLCG 16 CPUs
- Available storage per experiment
  - ALICE 1TB, ATLAS and CMS 4TB, LHCb and WLCG 3TB

Metrics for the Streams set-up

- Streams: target data rate of 1.7 Gb/day
- Maximum achieved LCR sustained rate is 600/sec

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Physics Database Metrics during CCRC'08 (2)

- We are now collecting input now from the Tier1 sites on the metrics for the RAC clusters
- We would like to receive feedback from the experiments on the current metrics proposal
  - DB storage volume, DB server allocation/re-prioritisation, workload during CCRC'08

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