

LHCb DB Requirements and Work Plan

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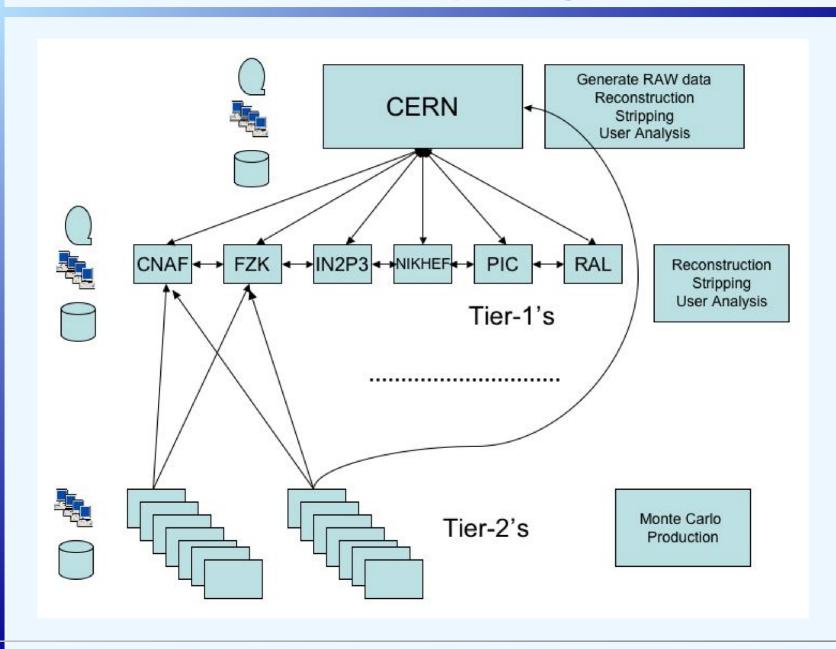
3D Meeting 22-06-2006



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- Requirements
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 - CondDB
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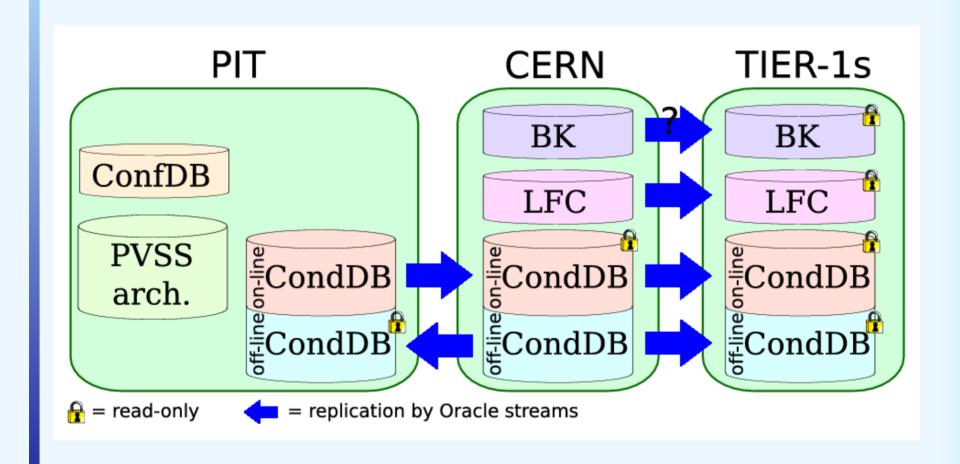


Introduction - Computing Model





Introduction – DB Deployment





No update with respect to the numbers already reported.

*ı*are Setup



- Propose to setup for first 6 month
 - 2/3 dual-cpu database nodes with 2GB or more
 - · Setup as RAC cluster (preferably) per experiment
 - ATLAS. 3 nodes with 3006B storage (after min
 - LHCb: 2 nodes with 100GB storage (after mirroring)
 - · Shared storage (eg FibreChannel) proposed to allow for clustering
 - CMS: 2-3 dual-cpu Squid nodes with 1GB or more
 - Squid s/w packaged by CMS will be provided by 3D
 - · 100GB storage per node
 - · Need to clarify service responsibility (DB or admin team?)
- Target s/w release: Oracle 10gR2
 - RedHat Enterprise Server to insure Oracle support

LCG 3D Status Dirk Duellmann



Work Plan - CondDB

Set up streaming to Tier-1s

July

- Test the replication Tier-0 → Tier-1s
- Set up streaming between a LHCb managed RAC (Online) and the CERN one
- Test replication
 - CERN → Online
 - Online → CERN → Tier-1s

October



Work Plan - LFC

- Replication tests ongoing
 - CERN → CNAF
- Large scale tests using available
 Tier-1s
 - LFC setup at Tier-1s
 - Oracle streaming setup

July

October



Production Phase (October)

- CondDB and LFC up and running
 - Master copy at CERN
 (RAC in the PIT will not be ready before end of the year)
 - Replicas at Tier-1s
 - GRID access



- Provided resources are enough for start-up
- Setup and tests should expose problems or limitations
- September deadline for corrections to the requirements should be ok