

# COOL Performance Optimization and Scalability Tests

*Monday, March 23, 2009 8:00 AM (20 minutes)*

The COOL project provides software components and tools for the handling of the LHC experiment conditions data. The project is a collaboration between the CERN IT Department and Atlas and LHCb, the two experiments that have chosen it as the base of their conditions database infrastructure. COOL supports persistency for several relational technologies (Oracle, MySQL and SQLite), based on the CORAL Relational Abstraction Layer. For both experiments, Oracle is the backend used for the deployment of COOL database services at Tier0 (both online and offline) and Tier1 sites. While the development of new software features is still ongoing, performance optimizations and tests have been the main focus of the project in 2008. This presentation will focus on the results of the proactive scalability tests performed by the COOL team for data insertion and retrieval using samples of simulated conditions data. It will also briefly review the results of stress tests performed by the experiments using the production setups for service deployment.

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