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COOL Performance Tests and Optimization

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The COOL software has been chosen by both Atlas and LHCb as the base of their conditions database infrastructure. The main focus of the COOL project in 2007 will be the deployment, test and validation of Oracle-based COOL database services at Tier0 and Tier1. In this context, COOL software development will concentrate on service-related issues, and in particular on the optimization of software performance for data insertion and retrieval from the database. This will involve several activities in parallel, such as improvements in the C++ client CPU consumption, improvements in the SQL query strategy for data insertion and retrieval from the database, and multi-client stress tests of different software releases and server setups. In this presentation, we will review the most important tests and optimizations which have been performed in this context.

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