

CORAL, a software system for vendor-neutral access to relational databases

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The Common Relational Abstraction Layer (CORAL) is a C++ software system, developed within the context of the LCG persistency framework, which provides vendor-neutral software access to relational databases with defined semantics. The SQL-free public interfaces ensure the encapsulation of all the differences that one may find among the various RDBMS flavours in terms of SQL syntax and data types. CORAL has been developed following a component architecture where the various RDBMS-specific implementations of the interfaces are loaded as plugin libraries at run-time whenever required. The system addresses the needs related to the distributed deployment of relational data by providing hooks for client-side monitoring, database service indirection and application-level connection pooling.

Primary author: Dr PAPADOPOULOS, Ioannis (CERN, IT Department, Geneva 23, CH-1211, Switzerland)

Co-authors: Dr DUELLMANN, Dirk (CERN, IT Department, Geneva 23, CH-1211, Switzerland); Dr GOVI, Giacomo (CERN, IT Department, Geneva 23, CH-1211, Switzerland); Dr CHYTRACEK, Radovan (CERN, IT Department, Geneva 23, CH-1211, Switzerland); Dr SHAPIRO, Yulia (CERN, PH Department, ATLAS Database Group, Geneva 23, CH-1211, Switzerland); Dr XIE, Zhen (Princeton University, Princeton, New Jersey 08544 USA)

Presenter: Dr PAPADOPOULOS, Ioannis (CERN, IT Department, Geneva 23, CH-1211, Switzerland)

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