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ConDB - Conditions Database for Particle Physics Experiments

Abstract: Conditions or calibration data are an important part of High Energy experiments. This kind of data is typically organized in terms of intervals of validity that require a special type of database table schema and API structure. At Fermilab we have designed and developed ConDB, a general tool to store, manage and retrieve conditions data organized into validity intervals in a database. ConDB is highly scalable, has been proven to be capable of storing data for more than million channels, has many additional features such as data compression, a direct access API and a scalable high performance web interface. We present the conceptual design, product features, database representation and system architecture of this very powerful tool.

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