

Design and Performance of the CDF Experiment Online Control and Configuration Systems

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The CDF Experiment's control and configuration system consists of several database applications and supportive application interfaces in both Java and C++. The CDF Oracle database server runs on a SunOS platform and provides both configuration data, real-time monitoring information and historical run conditions archiving. The Java applications running on the Scientific Linux operating system implement novel approaches to mapping a relational database onto an object-oriented language, while maintaining efficiency for modifying run configurations in a rapidly changing physics environment. Configuration and conditions data are propagated in real time from the central online system to multiple remote database sites in an effort to provide grid-like support for offline end-user analysis applications. We review details of the design, successes and pitfalls of a complex interoperative configuration system.

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