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RDataFrame: status and plans

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ROOT's RDataFrame enables the development of high-performance, highly parallel HEP analyses in C++ and Python – without requiring expert knowledge of multi-thread parallelization or ROOT I/O.

This contribution presents several features recently introduced in RDataFrame that improve the ergonomics of common HEP use cases and provides a glimpse of what is to come in the future. Topics will include interoperability of C++ and Python code, scaling up execution from a laptop to large computing clusters with minimal code changes, machine learning inference and user-friendly handling of systematic variations.

Summary

The latest news on RDataFrame, ROOT's modern and high-level analysis interface for C++ and Python.

Primary author: GUIRAUD, Enrico (EP-SFT, CERN)

Presenter: GUIRAUD, Enrico (EP-SFT, CERN)

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