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Future of ROOT runtime C++ modules

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This talk shows the status of the C++ Modules in ROOT and CMSSW. We will demonstrate performance improvement in ROOT and in CMSSW. Runtime C++ module improves correctness and simplifies the current implementation which relies on rdict_pcms and rootmap files. We would like to describe the major challenges: improving both ROOT and Clang. We will describe the current state of the experimental implementation. The talk proposes how we can further reduce the duplicate information in the C++ module files and how to improve their load time. The authors share performance results and implementation experience gained when migrating CMSSW and its dependencies such as HepMC, Geant, and boost.

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