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ROOT in LHCb Software Framework Gaudi, present and future

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CERN LHCb experiment has been using ROOT for 20 years as back-end for storing the reconstructed event data and the stripped down data used for physics analysis.

With the ongoing work to prepare the experiment software for the upgrade of the detector happening during LHC second Long Shutdown, we are reviewing the LHCb software framework Gaudi to improve the code base in terms of performance, usability and maintainability, and ROOT being such an important piece of our software stack, we are considering how to improve its use and prepare for the ROOT v7 API.

In this contribution, we will outline our current use of ROOT and how we plan to use it in our future software.

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