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Distributed Data Analysis in LHCb

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The LHCb distributed data analysis system consists of the Ganga job submission front-end and the DIRAC Workload and Data Management System. Ganga is jointly developed with ATLAS and allows LHCb users to submit jobs on several backends including: several batch systems, LCG and DIRAC. The DIRAC API provides a transparent and secure way for users to run jobs to the Grid and is the default mode of submission for the LHCb VO. This is exploited by Ganga to perform distributed user analysis for LHCb. This system provides LHCb with a consistent, efficient and simple user experience in a variety of heterogeneous environments and facilitates the incremental development of user analysis from local test jobs to the Worldwide LHC Computing Grid.

With a steadily increasing number of users, the LHCb distributed analysis system has been tuned and enhanced over the past two years. This paper will describe the recent developments to support distributed data analysis for the LHCb experiment on WLCG.

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