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Ganga - a job management and optimising tool

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Ganga, the job-management system (<http://cern.ch/ganga>), developed as an ATLAS- LHCb common project, offers a simple, efficient and consistent user experience in a variety of heterogeneous environments: from local clusters to global Grid systems. Ganga helps end-users to organise their analysis activities on the Grid by providing automatic persistency of the job's metadata. A user has full access to the job history including their configuration and input/output. It is however important that users can see a single environment for developing and testing algorithms locally and for running on large data samples on the Grid. The tool allows for some basic monitoring and a steadily increasing number of users of more than 300 users have been confirmed, both in HEP, as well as in non-HEP applications. The paper will introduce the Ganga philosophy, the Ganga architecture and current and future strategy. It will use the example of how an LHCb user performs his analysis using Ganga and will describe the experiences gathered so far with the tool in LHCb.

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