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Ganga: User-friendly Grid job submission and management tool for LHC and beyond

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Ganga has been widely used for several years in Atlas, LHCb and a handful of other communities in the context of the EGEE project. Ganga provides a simple yet powerful interface for submitting and managing jobs to a variety of computing backends. The tool helps users configuring applications and keeping track of their work. With the major release of version 5 in summer 2008, Ganga's main user-friendly features have been strengthened. New configuration interface, enhanced support for job collections, bulk operations and easier access to subjobs are just few examples. In addition to the traditional batch and Grid backends such as Condor, LSF, PBS, gLite/EDG a point-to-point job execution via ssh on remote machines is now supported. Ganga is used as an interactive job submission interface for the end-users and also, as a job submission component for higher-level tools. For example GangaRobot is used to perform automated, end-to-end testing of the HEP data analysis chain on the Grid. Ganga comes with extensive test suite covering more than 350 test cases. The development model involves all active developers in the release management shifts which is an important and novel approach for the distributed software collaborations. Ganga 5 is a mature, stable and widely-used tool with long-term support from the HEP community.

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Primary author: Dr EGEDE, Ulrik (Imperial College London)

Co-authors: Dr MAIER, A (CERN); Mr MURARU, A (CERN); Dr SOROKO, A (Oxford University); Dr GAIDIOZ, B (CERN); Dr SAMSET, B (Oslo University); Dr TAN, C L (Birmingham University); Dr LIKO, D (Vienna); Dr VAN DER STER, Daniel (CERN); Dr BROCHU, F (Cambridge University); Dr COWAN, G (Edinburgh University); Mr LEE, H C (Nikhef); Dr ELMSHEUSER, J (Munich); Mr MOSCICKI, J T (CERN); Mr HARRISON, K (Birmingham University); Dr PAJCHEL, K (Oslo University); Dr SLATER, M (Birmingham University); Dr WILLIAMS, M (Imperial College London); Mr REECE, W (Imperial College London)

Presenter: Dr VAN DER STER, Daniel (CERN)

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