

A PanDA Backend for the Ganga Analysis Interface

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Ganga provides a uniform interface for running ATLAS user analyses on a number of local, batch, and grid backends. PanDA is a pilot-based production and distributed analysis system developed and used extensively by ATLAS. This work presents the implementation and usage experiences of a PanDA backend for Ganga. Built upon reusable application libraries from GangaAtlas and PanDA, the Ganga PanDA backend allows users to run their analyses on the worldwide PanDA resources, while providing the ability for users to develop simple or complex analysis workflows in Ganga. Further, the backend allows users to submit and manage “personal” PanDA pilots: these pilots run under the user’s grid certificate and provide a secure alternative to shared pilot certificates while enabling the usage of local resource allocations.

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