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## Recent Improvements in the ATLAS PanDA Pilot

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The Production and Distributed Analysis system

(PanDA) in the ATLAS experiment uses pilots to execute submitted jobs on the worker nodes.

The pilots are designed to deal with different runtime conditions and failure scenarios, and support many storage systems.

This talk will give a brief overview of the PanDA pilot system and will present major features and recent improvements including CERNVM File System integration, file transfers with Globus Online, the job retry mechanism,

advanced job monitoring including JEM technology, and validation of new pilot code using the HammerCloud stress--testing system.

PanDA is used for all ATLAS distributed production and is the primary system for distributed analysis. It is currently used at over 100 sites world--wide.

We analyze the performance of the pilot system in processing LHC data on the OSG, LCG and Nordugrid infrastructures used by ATLAS, and describe plans for its further evolution.

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