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Evolution of ATLAS PanDA System

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The PanDA Production and Distributed Analysis System plays a key role in the ATLAS distributed computing infrastructure.

PanDA is the ATLAS workload management system for processing all Monte-Carlo simulation and data re-processing jobs in addition to user and group analysis jobs. The system processes more than 5 million jobs in total per week, and more than 1400 users have submitted analysis jobs in 2011 through PanDA. PanDA has performed well with high reliability and robustness during the two years of LHC data-taking, while being actively evolved to meet the rapidly changing requirements for analysis use cases. We will present an overview of system evolution including PanDA's roles in data flow, automatic rebrokerage and reattempt for analysis jobs, adaptation for the CERNVM File System, support for the 'multi-cloud' model through which Tier 2s act as members of multiple clouds, pledged resource management, monitoring improvements, and so on. We will also describe results from the analysis of two years of PanDA usage statistics, current issues, and plans for the future.

Primary authors: Dr STRADLING, Alden (University of Texas at Arlington (US)); ATLAS, Collaboration (Atlas)

Co-authors: DE, Kaushik (University of Texas at Arlington (US)); NILSSON, Paul (University of Texas at Arlington (US)); Dr WALKER, Rodney (Ludwig-Maximilians-Univ. Muenchen (DE)); PANITKIN, Sergey (Brookhaven National Laboratory (US)); MAENO, Tadashi (Brookhaven National Laboratory (US)); Dr WENAUS, Torre (Brookhaven National Laboratory (US)); Dr FAYN, Valeri (Brookhaven National Laboratory (US))

Presenter: MAENO, Tadashi (Brookhaven National Laboratory (US))

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