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PanDA: Distributed production and distributed analysis system for ATLAS

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A new distributed software system was developed in the fall of 2005 for the ATLAS experiment at the LHC. This system, called PanDA, provides an integrated service architecture with late binding of jobs, maximal automation through layered services, tight binding with ATLAS distributed data management (DDM) system, advanced error discovery and recovery procedures, and other features. In this talk, we will describe the PanDa software system. Special emphasis will be placed on the evolution of PanDA based on one and half year of real experience in carrying out CSC data production for ATLAS. The architecture of Panda is well suited for the computing needs of the ATLAS experiment, which is expected to be one of the first HEP experiments to operate at the petabyte scale.

Submitted on behalf of Collaboration (ex, BaBar, ATLAS)

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