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Experience with Deployment and Operation of the ATLAS Production System and the Grid3+ Infrastructure at Brookhaven National Lab

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This paper describes the deployment and configuration of the production system for ATLAS Data Challenge 2 starting in May 2004, at Brookhaven National Laboratory, which is the Tier1 center in the United States for the International ATLAS experiment. We will discuss the installation of Windmill (supervisor) and Capone (executor) software packages on the submission host and the relevant security issues. The Grid3+ infrastructure and information service are used for the deployment of grid enabled ATLAS transformations on the Grid3+ computing elements. The Tier 1 hardware configuration includes 95 dual processor Linux compute nodes, 24 TB of NFS disk and an HPSS mass storage system. VOMS server maintains both VO services for US ATLAS and BNL local site policies. This paper describes the work of optimizing the performance and efficiency of this configuration.

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