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CRONUS: A Condor Glide-in Based ATLAS Production Executor

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With the evolution of various Grid Technologies along with foreseen first LHC collision this year, a homogeneous and interoperable Production system for ATLAS is a necessity. We present the CRONUS, which a Condor Glide-in based ATLAS Production Executor. The Condor glide-in daemons traverse to the Worker nodes, submitted via Condor-G or gLite RB. Once activated, they preserve the Master-Worker relationships, with the worker pulling the production jobs sequentially until the expiry of their lifetimes. The initial startup glide-ins not only ensures a guaranteed ATLAS software environment but also provides a homogeneous large pools of resources across different grid flavors. The structure of CRONUS and how it handles job management, resource selection, security etc. is described. The requirement of a secondary worker from the same Glide-in daemon for DATA Transfer or any other maintenance jobs is also discussed.

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

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