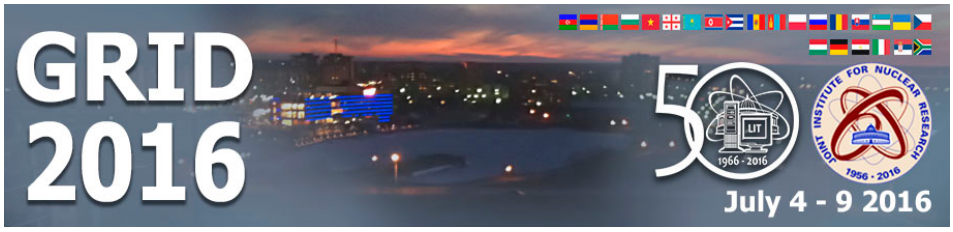

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PanDA for COMPASS: processing data via Grid

Thursday, 7 July 2016 14:00 (15 minutes)

The development of PanDA (Production and Distributed Analysis System) is a workload management system for ATLAS started in 2005. Since that time the system has grown up and in 2013 the BigPanDA project started, aiming to extend the scope of the system to non-LHC experiments. One of the experiments to which production management PanDa is being applied, is COMPASS at CERN. The workflow of the experiment has to be changed to enable Grid for production and user jobs. Lots of the infrastructure work is being performed on backstage. PanDA jobs definition replaces native batch system job definition, automatic submission to Condor Computing Elements come in place of console job submission, Grid user certificates identify job submitters instead of AFS user names, Grid Storage Elements substitute local directories on AFS and EOS. Production software moves from private directory of production account to CVMFS. Also, a virtual organization with role management has been established for the experiment. Central monitoring was enabled. The experiment is about to start using several computing sites instead of one local batch. How the COMPASS' data are being processed via Grid will be presented in this report.

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