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Overview of the ATLAS distributed computing system

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The CERN ATLAS experiment successfully uses a worldwide computing infrastructure to support the physics program during LHC Run 2. The grid workflow system PanDA routinely manages 250 to 500 thousand concurrently running production and analysis jobs to process simulation and detector data. In total more than 300 PB of data is distributed over more than 150 sites in the WLCG and handled by the ATLAS data management system Rucio. To prepare for the ever growing LHC luminosity in future runs new developments are underway to even more efficiently use opportunistic resources such as HPCs and utilize new technologies. This presentation will review and explain the outline and the performance of the ATLAS distributed computing system and give an outlook to new workflow and data management ideas for the beginning of the LHC Run 3.

Authors: ELMSHEUSER, Johannes (Brookhaven National Laboratory (US)); DI GIROLAMO, Alessandro (CERN)

Presenter: ELMSHEUSER, Johannes (Brookhaven National Laboratory (US))

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