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Distributed Analysis Jobs with the ATLAS Production System

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The ATLAS production system provides access to resources across several grid flavors. Based on the experiences from the last data challenge the system has evolved. While key aspect of the old system are kept (Supervisor and executors), new implementations of the components aim for a more stable and scalable operation. An important aspect is also the integration with the new data management system, Don Quijote 2. A graphical user interface supports the interaction of users with the system. The system provides direct support for user analysis jobs, including user job definitions and authenticated access based on globus proxy certificates. An initial version of this system is currently under test on the LCG infrastructure and first user experiences have been collected. Currently the turnaround time for user jobs is under study. Special considerations are given to the operation of the system in parallel to standard ATLAS production. An issue of concern is also the overall scalability of the system. It is planned to provide it as service to all ATLAS user on a short time schedule.

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