



Contribution ID: 312

Type: **Sectional reports**

The BigPanDA self-monitoring alarm system for ATLAS

Tuesday, 11 September 2018 15:45 (15 minutes)

The BigPanDA monitoring system is a Web application created to deliver the real-time analytics, covering many aspects of the ATLAS experiment distributed computing. The system serves about 35000 requests daily and provides critical information used as input for various decisions: from distribution of the payload among available resources to issue tracking related to any of 350k jobs running simultaneously. It evolves intensively; in particular, in 2017, the system received 933 commits, delivering new features and expanding the scope of the presented data.

The experience of operating BigPanDA in 24/7 mode led to development of a multilevel self-monitoring alarm system. This ELK-stack based solution covers all critical components of the BigPanda: from user authentication to management of the number of connections to the DB backend. The developed solution provides an intelligent error analysis, delivering to the operators only those notifications that need human intervention. We describe the architecture, principal features, and operation experience of self-monitoring, as well as its adaptation possibilities.

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Session Classification: 2. Operation, monitoring, optimization in distributed computing systems

Track Classification: 2. Operation, monitoring, optimization in distributed computing systems