Contribution ID: **148** Type: **Poster**

The Belle II Raw Data Management system

Thursday, 7 November 2019 16:15 (15 minutes)

The Belle II experiment is a major upgrade of the e+e- asymmetric collider Belle, expected to produce tens of peta-bytes of data per year due to the luminosity increase with the SuperKEKB accelerator. The distributed computing system of the Belle II experiment plays a key role, storing and distributing data in a reliable way, to be easily access and analyzed along the more than 800 collaborators.
In particular, the Belle II Raw Data Management system has been developed, aiming to upload the output files of the experiment onto Grid storage, register them into the file and metadata catalogs, and make two replicas of the full raw data set using the Belle II distributed data management system. It has been implemented as an extension of DIRAC (Distributed Infrastructure with Remote Agent Control), containing a database, services, client and monitoring tools, and several agents treating the data automatically.
The first year of data taken with the Belle II full detector has been treated by the Belle II Raw Data Management system successfully. The design, current status and performance are presented. Prospects for improvements towards the full luminosity data taking are also reviewed.

Consider for promotion

No

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Session Classification: Posters

Track Classification: Track 4 –Data Organisation, Management and Access