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Distributed Computing at Belle II

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The Belle II experiment, an asymmetric energy electron-positron collider experiment, has a targeted integrated luminosity of 50 ab^{-1}. Data taking has already started with more than 250 fb^{-1} recorded thus far. Due to the very high data volume and computing requirements, a distributed ''Grid" computing model has been adopted. Belle II recently integrated Rucio, a distributed data management software, into its workflow in order to improve scalability, automation etc. Since then, client tools have been taking advantage of Rucio to make the Belle II distributed computing system more robust. Grid job submission time is vastly improved by using the container concept of Rucio, where a single path corresponds to a collection of files, resulting in single call resolution of file paths. Replication and deletion of files are done asynchronously to improve usability. Including the completed and on-going development in this area, we will report the operation status of the Belle II distributed computing.

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