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Archiver System Management for Belle II Detector Operation

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The Belle II experiment is a high-energy physics experiment using the SuperKEKB electron-positron collider. Belle II has started the so-called "phase 3" data taking from March, 2019.

With Belle II data, high precision measurement of rare decays and CP-violation in heavy quarks and leptons will be made to probe New Physics. In this presentation, we present the archiver system to monitor the Belle II detector, and discuss how we maintain the system that archives the monitoring process variables of the subdetectors. In the archiver, we currently save about 26 thousand variables including the temparature of various subdetector components, status of water leak sensors, high voltage power supply status, data acquision status, and luminosity information of the colliding beams. For stable data taking, it is essential to collect and archive these variables.

To ensure variables are sent from the subdetector and other systems, we regularly check variable availablity and consistency. To secure the operation of the archiver, we made a dedicated variable.

By checking the stored status of the variable, we ensure the archiver operation. To cope with a possible hardware failure, we prepared a backup archiver that is syncronized with the main archiver.

Minioral

Yes

IEEE Member

No

Are you a student?

Yes

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