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Commissioning and Early Experience of the New Online Storage and Express-Reconstruction System for the Belle II Experiment

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The Belle II experiment is an experiment at the SuperKEKB, an electron-positron collider, and the Belle II detector operated at the near the energies of Upsilon 4S resonance. The run 1 operation was successfully finished in June 2022, and the first long shutdown was started. During the shutdown period, the online storage and express-reconstruction system has been upgraded. The goals of upgrades are introducing the ZeroMQ library-based framework to the systems like the high-level trigger, direct ROOT format output with online compression, and dedicated express-reconstruction system for physics events tagged by the high-level trigger. In this presentation, we present the commissioning results of the system upgrades and experience of early operation of run 2.

Minioral

Yes

IEEE Member

No

Are you a student?

No

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