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Results of stress tests for the Belle II conditions database

MWANGI EDWARD, JOFFE DAVID, Kennesaw State University, BELLE II COLLABORATION — Belle II is a high-energy physics experiment that is aimed at the discovery of new physics in the decays of b quarks produced through electron-positron annihilation events produced at the KEK laboratory in Tsukuba, Japan. The conditions database for the experiment stores and makes accessible information related to the calibration of the detectors at the time of each event. When the Belle II experiment begins running, many simultaneous connections to the conditions database are likely to be initiated. This raises the need to run stress tests against the conditions database to establish its robustness at the expected rates of access. In order to carry out the stress tests a series of cases were formulated and used to observe the behavior of the database when they were applied. Scripts to run the test were coded and run, and the resulting metrics are presented.

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