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White Rabbit at SuperKEKB

Thursday 22 September 2022 10:00 (20 minutes)

We constructed the distributed TDC system at SuperKEKB based on the White Rabbit timing system. The individual slave node of White Rabbit works as the TDC with an accuracy of 8ns. And their timestamps are synchronized at the sub-nanosecond level. This TDC node consists of the PCIexpress-type White Rabbit board that is operated on the commercial PC. We developed the EPICS device support that works on Ubuntu Linux. We introduce the details of the entire system and the performance of our White Rabbit application.

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