CHEP'07
VICTORIA, BC

Online Data Monitoring in the LHCb experiment

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The High Level Trigger and Data Acquisition system selects about 2 kHz of events out of the 40 MHz of beam crossings. The selected events are sent to permanent storage for subsequent analysis.
In order to ensure the quality of the collected data, indentify possible malfunctions of the detector and perform calibration and alignment checks, a small fraction of the accepted events is sent to a monitoring farm, which consists of a few tens of general purpose PCs.
This contribution introduces the architecture of the data stream splitting mechanism from the storage system to the monitoring farm, where the raw data are analyzed by dedicated tasks. It describes the collaborating software components that are all based on the Gaudi event processing framework.

Submitted on behalf of Collaboration (ex, BaBar, ATLAS)

LHCb Online

Author: Dr FRANK, Markus (CERN)

Presenter: Dr FRANK, Markus (CERN)

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