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Simultaneous usage of the LHCb HLT farm for Online and Offline processing workflows

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LHCb is one of the 4 LHC experiments and continues to revolutionise data acquisition and analysis techniques. Already two years ago the concepts of "online" and "offline" analysis were unified: the calibration and alignment processes take place automatically in real time and are used in the trigerring process such that Online data are immediately available offline for physics analysis (Turbo analysis), the computing capacity of the HLT farm has been used simultaneously for different workflows : synchronous first level trigger, asynchronous second level trigger, and Monte-Carlo simulation. Thanks to the same software environment, LHCb can switch seamlessly and fast from Online to Offline workflows, run them simultaneously and thus maximize the usage of the HLT Farm computing resources.

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