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Integration of ATLAS Software in the Combined Beam Test

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The ATLAS collaboration had a Combined Beam Test from May until October 2004. Collection and analysis of data required integration of several software systems that are developed as prototypes for the ATLAS experiment, due to start in 2007. Eleven different detector technologies were integrated with the Data Acquisition system and were taking data synchronously. The DAQ was integrated with the High Level Trigger software, which will perform online selection of ATLAS events. The data quality was monitored at various stages of the Trigger and DAQ chain. The data was stored in a format foreseen for ATLAS and was analyzed using a prototype of the experiments' offline software, using the Athena framework. Parameters recorded by the Detector Control System were recorded in a prototype of the ATLAS Conditions Data Base and were made available for the offline analysis of the collected event data.
The combined beam test provided a unique opportunity to integrate and to test the prototype of ATLAS online and offline software in its complete functionality.

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