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Integration of the Trigger and Data Acquisition Systems in ATLAS

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During 2006 and early 2007, integration and commissioning of trigger and data acquisition (TDAQ) equipment in the ATLAS experimental area have progressed. Much of the work has focussed on a final prototype setup consisting of around 80 computers representing a subset of the full TDAQ system. There have been a series of technical runs using this setup. Various tests have been run including ones where around 4k level 1 preselected simulated proton-proton events have been processed in a loop mode through the trigger and dataflow chains. The system included the readout buffers containing the events, event building, level 2 and event filter trigger algorithms. Quantities critical for the final system, such as trigger rates and event processing times, have been studied using different trigger algorithms as well as different dataflow components.

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

On behalf of the ATLAS DAQ and trigger communities

Primary author: Dr RIU, Imma (Universitat Autònoma de Barcelona. Institut de Fisica d'Altes Energies)

Presenter: Dr GORINI, Benedetto (CERN)

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