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Balancing the resources of the High Level Trigger farm of the ATLAS experiment

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The ATLAS High Level Trigger (HLT) is organized in two trigger levels running different selection algorithms on heterogeneous farms composed of off-the-shelf processing units. The processing units have varying computing power and can be integrated using diverse network connectivity. The ATLAS working conditions are changing mainly due to the constant increase of the LHC instantaneous luminosity, and consequently requiring the rolling expansion and replacement of the HLT hardware. Therefore, balancing the available resources is essential for optimizing the HLT
farm exploitation. In this paper, a tool for managing the HLT resources will be presented. The tool allows for showing, modifying and generating the HLT farm configuration, keeping the resource balance across the farms in terms of computing power and bandwidth under control.

Student? Enter 'yes'. See http://goo.gl/MVv53

yes

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