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ATLAS Sim@P1 upgrades during long shutdown two

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The Simulation at Point1 (Sim@P1) project was built in 2013 to take advantage of the ATLAS Trigger and Data Acquisition High Level Trigger (HLT) farm. The HLT farm provides around 100,000 cores, which are critical to ATLAS during data taking. When ATLAS is not recording data, this large compute resource is used to generate and process simulation data for the experiment. At the beginning of the current long shutdown (LS2), the HLT farm including the Sim@P1 infrastructure was upgraded. Previous papers emphasized the need for "simple, reliable, and efficient tools" and assessed various options to quickly switch between data acquisition operation and offline processing. In this contribution we describe the new mechanisms put in place for the opportunistic exploitation of the HLT farm for offline processing and give results from the first months of operation.

Consider for promotion

No

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