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Computing challenges in the certification of ATLAS Tile Calorimeter front-end electronics during maintenance periods

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After two years of operation of the LHC, the ATLAS Tile Calorimeter is undergoing the consolidation process of its front-end electronics. The first layer of certification of the repairs is performed in the experimental area with a portable test-bench which is capable of controlling and reading out all the inputs and outputs of one front-end module through dedicated cables. This testbench has been redesigned to improve the quality assessment of the data until the end of Phase I. It

is now possible to identify low occurrence errors due to its increased read-out bandwidth and perform more sophisticated quality checks due to its enhanced computing power. Improved results provide fast and reliable feedback to the user.

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