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New Generation RCE system for the Rd53 Pixel Front End chip readout

The RCE (Reconfigurable Cluster Element) platform is a general-purpose system-on-chip data acquisition system, which is broadly deployed in various experiments, including ATLAS. A new generation of bench-top RCE system, based on Xilinx UltraScale+ MPSoC, is developed to support the Rd53a/b module and system testing with high performance. The RCE system also serves as the primary platform for validating the data transmission design of the ATLAS ITk pixel system with the same or equivalent components as the eventual ITk pixel system.

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