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DPDK is a new frame-work for very fast software defined networking. It allows multi-stage Ethernet networks for DAQ to be implemented with very cost-effective hardware by offloading all intelligence and most of the buffering into commodity servers. The LHCb data acquisition for Run3 will need a 40 Terabit/s network, where 100 Gigabit Ethernet is one of the interesting candidates. In this project we aim to port the existing DAQ exerciser software of LHCb, DAQPIPE, to DPDK and perform tests on state of the art network hardware.

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