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Proposal for a reconfigurable on-shore Data Acquisition system for km3 scale underwater Neutrino telescope.

The on-shore DAQ system for a km3 scale underwater Neutrino Telescope is required to read continuously the OMs (~10000) from the entire telescope and perform filtering and aggregation of the data to search for signatures of candidate muon and neutrino events. We propose the use of reconfigurable computing architecture to filter and route the continuous input data rates of about 1-10 Gb/s to processing units to apply calibration functions and triggering for event building, and arrive at an output event rate suitable for permanent storage to disk.

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