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A DAQ System for CAMAC controlller CC/NET using DAQ-Middleware

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We report DAQ System based on DAQ-Middleware. This system is consisting of GUI client application and CC/NET readout programs. CC/NET is a CAMAC crate controller module which was created by us from a joint research of TOYO corporation and KEK. CC/NET based on pipeline processing can operate at CAMAC specification limit speed. It has a single board computer that Linux operating system ran on. It is easily accessible to the internet because the CC/NET have a 100-based ethernet interface connector on the front panel. DAQ-Middleware is a system for enabling distributed data acquisition for the next generation Nuclear Physics experiments at KEK. The DAQ-Middleware have several components consisting of data monitoring, data logging, data gathering and so on. DAQ-Middleware provide all necessary functions for DAQ System. These DAQ functions have been made functional segmentation into the conponent. The user of the DAQ-Middleware can construct the DAQ system by combining these conponents. The GUI client of this DAQ system is a simple web service approach providing client HTTP access to a http server on the DAQ-Middleware. We constructed this DAQ System by addition of the GUI client application and CC/NET readout programs to the DAQ-Middleware. We show how it is convenient to use DAQ-Middleware.

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