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Realization of Detector Control System of Physics Experiment

In consideration of control requirement for experimental conditions in current physical experiment, it continually products vast quantities of control request and monitor data. The characteristic of large-scale physics experiment is taken into account, including remote site, varied device, vast observed value. A control system was developed, supports to communication with custom-made hardware, and implement functions of data acquisition, alarm management, data archiving. This control system is based on EPICS and focuses on development of IPbus driver support. This control system design, including human-machine interfaces, alarm system, historical data archiving system and Web service, etc. At present, the system has been used by the experiment of Jiangmen Underground Neutrino Observatory to monitor status of electronics test. It provides the necessary reference for the technical route of large-scale monitoring.

Minioral

Yes

IEEE Member

Yes

Are you a student?

Yes

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