

A CONTROL SYSTEM OF THE "JHF" ACCELERATOR COMPLEX

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A control system of the "JHF"[1] (Japan Hadron Facility) accelerator is presented. The JHF accelerator complex consists of a 50-GeV main synchrotron, a 3-GeV rapid-cycling synchrotron, and a 200-MeV linac. We have started the construction of a part of the linac, though the project itself has not been approved yet. We discussed how the control system for the JHF accelerator should be developed, and concluded that the EPICS is the most suitable as a framework of the control system because (1) it is well designed for a distributed system with VME, (2) has many nice tools to build a control system, (3) is well documented, and so on. We have recently installed the EPICS on a HP-UX server and PowerPC based VME controllers. One of the major R&D's we intend to develop a device driver/support for the TCP/IP. Details on this issue is written in Ref. [2].

[1] The JHF project recently merged with the Neutron Science Project at the Japan Atomic Energy Research Institution (JAERI). The detailed plan of the new project (called "Joint Proposal") is now discussed. [2] K. Furukawa et al., contribution to this Conference.