THE GNU CONTROL SYSTEM AT CAMD: PART TWO

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Plans and activities to upgrade thecontrol system of the storage ring atCAMD have been reported previously [1].The success of the project to replaceVAX/VMS with PC/Linux will be reported.The design objectives of utilizinginexpensive hardware and free softwarewere realized. The accomodation of anew superconducting wiggler and thecomplexity of its field ramp wascompletely successful. The nextobjective will be to upgrade thecontrol system of the injector linacby replacing VME/OS9 with a combinationof PC/Linux and PLC's. All equipmentprotection will be handled by the PLC'sand the man-machine interface will beimplemented with PC/Linux. This willeventually allow integration with thecontrol system of the storage ring.This, in turn, will ultimately allow amuch greater number of automated tasksin routine operation of the facility.

[1]B. Craft and P. Jines, "The GNU Control System at CAMD",Proceedings of the 1997 ICALEPCS, pp. 194-196.,1997