

MIGRATION OF 1970S MINICOMPUTER CONTROLS TO MODERN TOOLKIT SOFTWARE

R.C. Juras, Oak Ridge National Laboratory; M.J. Meigs, Oak Ridge National Laboratory; J.A. Sinclair, Oak Ridge National Laboratory; B.A. Tatum, Oak Ridge National Laboratory

Controls for accelerators and associated systems at the Holifield Radioactive Ion Beam Facility (HRIBF) at Oak Ridge National Laboratory have been migrated from 1970s-vintage minicomputers to a modern system based on Vista and EPICS toolkit software. Stability and capabilities of EPICS software have motivated increasing use of EPICS for accelerator controls. In addition, very inexpensive subsystems based on EPICS and the EPICS portable CA server running on Linux PCs have been implemented to control an ion source test facility and to control a building-access badge reader system. A new object-oriented, extensible display manager has been developed for EPICS to facilitate the transition to EPICS and will be used in place of MEDM. EPICS device support has been developed for CAMAC serial highway controls and for Allen-Bradley interfaces.