

HALL C SLOW CONTROLS REPORT (11/08/2018 – 11/14/2018)

- DSG-C-LINUX1 PC set up for EPICS slow controls development.
- EPICS base and extensions installed on DSG-C-LINUX1. Versions installed are:
 - ★ EPICS base version 3.14.12
 - ★ Visual Database Configuration Tool (VDCT) version 2.8.1.
 - ★ Controls System Studio (CSS) version 4.5.0
 - Also installed CSS-Phoebus 0.0.1 to investigate for future use.
 - “Phoebus” is newest version of CSS that does not rely on “Eclipse” Java IDE.
 - Currently, Hall B and Hall D use the Eclipse-based CSS.
- Currently investigating and installing additional EPICS extensions:
 - ★ Extensible Display Manager (EDM)
 - Software used to generate GUIs used by accelerator for screens that currently look at Hall C PLC system.
 - ★ Motif Editor and Display Manager (MEDM)
 - Software used to generate GUIs that is an improvement on EDM.
 - ★ Alarm Handler (ALH)
 - Same alarm handler interface used by Halls B and D.
 - ★ StripTool
 - Used to acquire PV data in real time and plot on strip charts.
 - ★ Gateway
 - Channel-access gateway extension that runs as an intermediate process to allow many connections to a PV while making only one connection to the actual IOC.
- EPICS base installation verified by creating and starting a test IOC with no fields.
 - ★ Creation of test IOC is successful.
 - ★ Unable to reliably run IOC; iocsh (shell used to interface with ioc from terminal) gives error that connection is refused.
- Configuration of stand-alone EPICS test station for software development in progress.