

# Hall C EPICS Project Status Report

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## 1. HMS & SHMS PLC to EPICS Communication

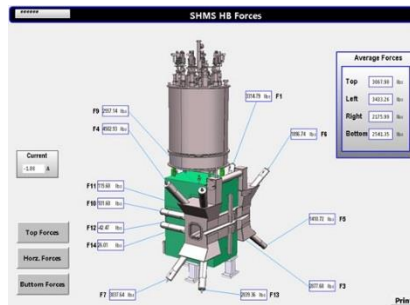
1.1. Development of EPICS-to-PLC communication demonstration program in progress.

1.1.1. EtherIP driver installed and used to successfully run example IOC.

1.1.2. Attempting to create new IOC using driver (not the example) that will be used in demonstration, but having trouble with the IOC configurations to use EtherIP drivers.

## 2. CSS-BOY Development

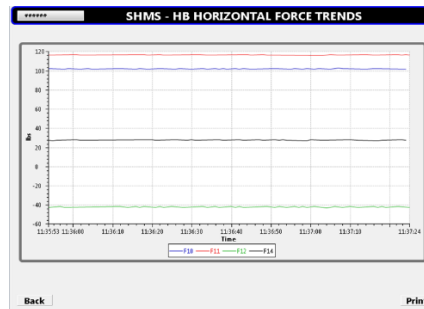
2.1. Wrote four Java scrips to calculate the top, left, right and bottom average forces in the SHSM Horizontal Bender magnet.



SHMS HB Horizontal Force CSS-BOY screen shows average forces calculated by Java scrips

2.2. Updated Proposed PVs to Monitor and Control Hall C Magnets spreadsheet with all PVs required to in new CSS-BOY screens.

2.3. Developed seven CSS-BOY screens to display plots of forces vs time for the SHMS Horizontal Bender and Dipole magnets.



Example of SHMS HB Horizontal Force Trends screen