



Detector Support Group

Weekly Report, 2018-12-19

Summary

Hall C EPICS Slow Control Systems

- Script in Python written to create database for PLC tags to be used by EPICS.
- Python program developed to create CSS screens for HV controls (tcl2css).
 - ★ Developing HV controls in CSS allows a static .opi file to be created that is opened in a temporary workspace when user executes a start-up script.
 - UI does not have to be re-generated every time the screen is opened.
 - Temporary workspace and .opi file opens in seconds.

HMS Hodo 2 X HV Controls										Detector HV Controls ▾
Ch ID	On/Off	Status	Vmon	Imon	Vset	Ittrip	Vmax	RmpUp	RmpDwn	
h2x01+	OFF	OFF	#####	#####						
h2x02+	OFF	OFF	#####	#####						
h2x03+	OFF	OFF	#####	#####						
h2x04+	OFF	OFF	#####	#####						
h2x05+	OFF	OFF	#####	#####						
h2x06+	OFF	OFF	#####	#####						
h2x07+	OFF	OFF	#####	#####						
h2x08+	OFF	OFF	#####	#####						
h2x09+	OFF	OFF	#####	#####						
h2x10+	OFF	OFF	#####	#####						
h2x11+	OFF	OFF	#####	#####						
h2x12+	OFF	OFF	#####	#####						
h2x13+	OFF	OFF	#####	#####						
h2x14+	OFF	OFF	#####	#####						
h2x15+	OFF	OFF	#####	#####						
h2x16+	OFF	OFF	#####	#####						
h2x01-	OFF	OFF	#####	#####						
h2x02-	OFF	OFF	#####	#####						
h2x03-	OFF	OFF	#####	#####						
h2x04-	OFF	OFF	#####	#####						
h2x05-	OFF	OFF	#####	#####						
h2x06-	OFF	OFF	#####	#####						
h2x07-	OFF	OFF	#####	#####						
h2x08-	OFF	OFF	#####	#####						
h2x09-	OFF	OFF	#####	#####						
h2x10-	OFF	OFF	#####	#####						
h2x11-	OFF	OFF	#####	#####						
h2x12-	OFF	OFF	#####	#####						
h2x13-	OFF	OFF	#####	#####						
h2x14-	OFF	OFF	#####	#####						
h2x15-	OFF	OFF	#####	#####						
h2x16-	OFF	OFF	#####	#####						

CSS screen for HMS Hodoscope 2 X HV controls.

Widgets are blank because screen is not running to prevent inadvertently turning a channel off during the experimental run.

LTCC

- Four 120 VAC solenoids terminated.
 - ★ Current draw is < 0.2 A.
- LTCC Solenoid Controls GUI completed.