**Hall B Gas System Software Status as of June 3, 2016**

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The CLAS12 Hall B gas system will supply gas to Drift Chambers (DC), High Threshold Cherenkov Counters (HTCC), Low Threshold Cherenkov Counters (LTCC), Silicon Vertex Tracker (SVT), MicroMegas Vertex Tracker (MVT), Ring Image Cherenkov Detector (RICH), and Forward Tagger (FT) that are to be installed as part of the upgrade.

The software used for operations is a LabView based controls and monitoring system developed by the Detector Support Group. Currently, the system is deployed on three National Instruments CompactRIO controls platforms located on the space frame level three south, the forward carriage deck one, and the gas shed control room. Each of these areas contain a cRIO, a custom made controls interface chassis, and a touch screen monitor. Each cRIO has LabView code deployed on its CPU designed specifically to monitor and/or control the gas system components in that area.

The software code for several of the detectors is currently running. As each detector is installed in the hall and its operational gas provided, operational software testing on that detector will begin.

To aid in scheduling the software testing, each person responsible for the detector should plan on up to four weeks of software testing *after final gas connections have been made.* RICH, MVT, and FT detectors for which the gas controls equipment or monitoring sensors are yet to be finalized and procured, will require, in addition to the software testing time, development and integration time for their gas systems.

The overall Hall B Gas Systems Controls has been presented in the talk, located at the embedded [link](http://www.jlab.org/div_dept/physics_division/dsg/presentations2/Hall_B_Gas_System_Controls%20_4_22_2016.pptx).