



Contribution ID: 158

Type: **Poster presentation**

Web-based parameter control and real-time waveform display for the GRIFFIN experiment

Friday 10 June 2016 10:30 (1h 35m)

New data acquisition electronics is being developed at TRIUMF for the Gamma-Ray Infrastructure For Fundamental Investigations of Nuclei (GRIFFIN) spectrometer. Current FPGA capabilities have allowed opportunities for providing a more user friendly, web-based, hardware control interface that can be used without requiring additional custom software. Several software and firmware components are being developed, including a real-time waveform viewer, parameter control and read back, diagnostic counters, and a template-based configuration system utilizing MIDAS, and Javascript. This paper discusses the various protocols that were investigated, the benefits and challenges of the choices made, and the details of the interface implementations.

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Session Classification: Poster Session 2

Track Classification: Control, Monitoring, Test and Real Time Diagnostics Systems