

High Volume data monitoring with RootSpy

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The GlueX experiment will gather data at up to 3GB/s into a level-3 trigger farm, a rate unprecedented at Jefferson Lab. Monitoring will be done using the cMsg publish/subscribe system to transport ROOT objects over the network using the newly developed RootSpy package. RootSpy can be attached as a plugin to any monitoring program to “publish” its objects on the network without modification to the original code. A description of the RootSpy package will be presented with details of the pub/sub model it employs for ROOT object distribution. Data rates obtained from tests using multi-threaded monitoring programs will also be shown.

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