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Glowing VME backplanes - recent upgrades of the SEC and IDS DAQ

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The experiments at the SEC and IDS with segmented silicon detectors utilize a VME-based DAQ with between 100 and 300 channels, typically. The achievable acquisition rates of modern triggered nuclear physics experiments are heavily dependent on the readout software. This contribution presents a novel readout scheme that minimizes the deadtime associated with data readout, thus lowering the deadtime to the theoretical minimum. Depending on the case, this enhances the data throughput by up to a factor of 2.

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