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Data Management for High Speed Data Acquisiton up to 100 Gbps

Skutek Instrumentation excels in development of multichannel, high-performance digitizers described in the companion poster. Data readout is facilitated through 10G optical or 1G copper Ethernet from each individual device. High-volume data streams are received by Data Collection Computers followed by Data Transfer Nodes, and buffered on local high-capacity disk arrays. The data sets will be then distributed towards the High Performance Computing centers such as NERSC at up to 100G burst transfer rates. The data collection infrastructure will follow guidelines formulated by ESNet. The company is currently working on developing tools for high volume data transfer and management for both the company's and third-party data sources.
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