

Asapo: A high-performance streaming framework for real-time data analysis

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Asapo is a streaming framework developed and deployed at DESY to support data acquisition and online data analysis on processing clusters. It efficiently enables high-bandwidth communication between state-of-the-art detectors, storage systems, and independent analysis processes. The deployed solution provides real-time feedback and is offered as a service to DESY scientists. Several data-processing pipelines based on Asapo are deployed at different beamlines at the PETRA III facility.

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