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JANA2 Mutli-threaded Event Reconstruction

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Development of the JANA multi-threaded event processing framework began in 2005. It's primary application has been for GlueX, a major Nuclear Physics experiment at Jefferson Lab. Production data taking began in 2016 and JANA has been highly successful in analyzing that data on the JLab computing farm. Work has now begun on JANA2, a near complete rewrite emphasizing features targeted for large offsite computing facilities. Successful and less-than-successful strategies employed in JANA and how they are being addressed in JANA2 will be presented as well as new features suited to modern and future trends in data analysis.

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