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A New STAR Event Reconstruction Chain

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We present the design and performance analysis of a new event reconstruction chain deployed for analysis of STAR data acquired during the 2004 run and beyond. The creation of this new chain involved the elimination of obsolete FORTRAN components, and the development of equivalent or superior modules written in C++. The new reconstruction chain features a new and fast TPC cluster finder, a new track reconstruction software (ITTF discussed at CHEP2003), which seamlessly integrate all detector components of the experiment, a new vertex finder, and various post-tracking analysis modules including a V0 finder, and a track kink finder. The new chain is the culmination of a large software development effort involving in excess of ten FTEs.

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