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Automated Analysis of RHIC Physics Stores

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Every RHIC physics store is analyzed, with key components updated to a spreadsheet, to identify and monitor any improvements or degradations in performance. With physics stores lasting between 50 minutes (optimal store length of 7.3 GeV Au in Run14) and 20 hours (store length of 100 GeV Zr and Ru stores in Run18), manual analysis becomes a time consuming endeavor. To reduce the time required by operators to update the spreadsheet data, a program was written in Python to automatically analyze every store. An overview of the data analyzed is given, and the programs used to analyze each store are discussed.

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