

CPS: TTP Option: Medium: Multiobjective Control of Catoptric Systems

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1. INTRODUCTION

References [1, 5, 6].

2. RESULTS FROM PRIOR NSF SUPPORT

CSR: Small: Concurrent Accelerated Data Integration (CNS-1527510, PI: R. Chamberlain), 10/2015–9/2019, \$519,275.

Intellectual Merit – This project investigates the accelerated execution of data integration workflows, which increasingly are bottlenecks in data science. Execution platforms being targeted include both graphics engines and FPGAs. Publications resulting from this work include [3, 4, 7, 8].

Broader Impacts – This research project has supported 3 graduate students and 4 REU students. The applications investigated come from the fields of computational biology, astrophysics, and the Internet of Things, further expanding the scope of the students’ experience. A benchmark suite of these workflows has been released as a community resource [2].

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