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Research Area: Scientific Computing

The summer task will be to work with the National Center for Computational Sciences (NCCS) to study and identify best practices for doing parallel I/O on its massively parallel supercomputers, focusing primarily on the Cray XT3/XT4 architecture. The project will continue previous work by completing an extensive study that catalogs the performance of various I/O methodologies and libraries. The data collected will be mined to determine best practices with the current software stack, which will be documented and made available to NCCS users to automatically provide better performing methods.

Research Mentor:

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