



Jarett Collins
Fisk/Dillard University 2007
Major: Computer Science
Minor: Mathematics

Faculty Advisor: Dr. Stephen Egarievwe

Program: Research Alliance in Math & Science

Email: collinsjr@ornl.gov

Home: jrccreations@hotmail.com

RESEARCH AREA: Computer Science and Mathematics

The advent of high speed network backbones such as the TeraGrid has brought the promise of ubiquitous computing closer to a reality. Users are less constrained by the overhead of transferring data between computational resources and are free to move between different platforms to select the one most appropriate for a particular stage of computation. Nevertheless, the full potential of network bandwidth is not being utilized. This project will explore network transport characteristics for Lustre and other common TeraGrid data transport protocols. The general network throughput characteristics for these protocols will be evaluated and possible areas of improvement for general data transport will be suggested.

Research Mentors:

Dr. John W. Cobb
cobbjw@ornl.gov
(865) 576-5439

Gregory G. Pike
gregp@ornl.gov
(865) 576-2675

TeraGrid Project
High Performance Computing Operations