Current and Pending Support for Gerald F. Lofstead

Dr. Lofstead is a principle member of the technical staff in the Center for Conputing Research group at Sandia National Laboratories (SNL). The following table identifies current and pending support. This funding provides for effort, travel, and resources. The effort levels will be adjusted if pending proposals are funded, and as current projects finish.

Current Support

Project Title	: Scalable I/O Services
Source of Support	: NNSA Advanced Simulation and Computing Program
Award Amount	: $1000K/year to SNL
Period Covered	: 10/2014 – 9/2014
Investigator Commitment	: 0.2 FTE
Research Performed	: Integrated Application Workflow infrastructure support
Overlaps	: Focused on IAWs in general. This proposal looks at NVM impacts.

Project Title	: ATDM Data Management Services
Source of Support	: NNSA Advanced Simulation and Computing Program
Award Amount	: $9800K/year to SNL
Period Covered	: 10/2014 – 9/2018
Investigator Commitment	: 0.25 FTE
Research Performed	: data warehouse for task-based programming system.
Overlaps	: None.

Project Title	: HOBBES: OS and Runtime Support For Application Composition
Source of Support	: 2013 DOE Exascale Operating Systems and Runtimes
Award Amount	: $340K/year to SNL
Period Covered	: 8/2013 – 7/2016
Investigator Commitment	: 0.35 FTE
Research Performed	: Application composition operating system support.
Overlaps	: Example workflows that will be explored in this proposal.

Project Title	: High-Performance Decoupling of Tightly-Coupled Data Flows
Source of Support	: DOE Scientific Data Management, Analysis and Visualization at Extreme Scale 2
Award Amount	: $200K/year to SNL
Period Covered	: 8/2014 – 7/2017
Investigator Commitment	: 0.2 FTE
Research Performed	: Develop generic workflow components for HPC
Overlaps	: Example workflows that will be explored in this proposal.

Pending Proposals (in addition to this)

Project Title	: SCADS: Scalable Deep Storage Hierarchy for Exascale Computing
Source of Support	: DOE Storage Systems and Input/Output for Extreme Scale Science
Award Amount	: $176/year to SNL
Period Covered	: 10/2015 – 9/2018
Investigator Commitment	: 0.25 FTE
Research Performed	: effective NVM placement and capacity for best end-to-end science throughput
Overlaps	: None.