

Participants

Ewa Deelman, University of Southern California (co-chair)

Miron Livny, University of Wisconsin Madison (co-chair)

PI	Affiliation	Project	Award Number and link	URL
Stanley Ahalt	RENCI	Conceptualization of a Water Science Software Institute	1216817	http://waters2i2.org/
Jay Alameda	NCSA	SSI: A Productive and Accessible Development Workbench for HPC Applications Using the Eclipse Parallel Tools Platform	1047956	
David Anderson	UC Berkeley	SS1: Next-Generation Volunteer Computing	1148523	http://boinc.berkeley.edu
David August	Princeton University	SSI: Accelerating the Pace of Research through Implicitly Parallel Programming	1047879	
Jogesh Babu	Pennsylvania State Univ University Park	SSE: Statistical software for astronomical surveys	1047586	http://vostat.org
George Biros	Georgia Tech Research Corporation	SSE: Software for integral equation solvers on manycore and heterogeneous architectures	1047980	
Philip Bourne	University of California-San Diego	Conceptualization and Analysis of a 3D Virtual Cell	1216893	http://itsb.ucsd.edu/
Richard Brower	Boston University	SSI: Scalable Hierarchical Algorithms for Extreme Computing (SHARE)	1060012	
Daniel Bump	Stanford University	SSE: Sage-combinat: Developing and Sharing Open Source Software for Algebraic Combinatorics	1147247	http://www.sagemath.org/ http://wiki.sagemath.org/combinat http://trac.sagemath.org/sage_trac/
Garnet Chan	Cornell University	SSE: General Tensor Software Elements for Quantum Chemistry, Tensor Network Theories, and Beyond	1148287	
T. Daniel Crawford	Virginia Polytechnic Institute and State University	A Scientific Software Innovation Institute for Computational Chemistry and Materials Modeling	1216823	http://www.s2i2.org/
T. Daniel Crawford	Virginia Polytechnic Institute and State University	SSI: Sustainable Development of Next-Generation Software in Quantum Chemistry	1147794	
Ewa Deelman	University of Southern California	SSI: Distributed Workflow Management Research and Software in Support of Science	1148515	http://pegasus.isi.edu
Gabriel Dos Reis	Texas Engineering Experiment Station	SSE: Supporting Generic Programming in C++ for Modular and Reliable Large-Scale Software	1148461	
Anshu Dubey	University of Chicago	Building Community Codes for Effective Scientific Research on HPC Platforms	1228696	

Kevin Eliceiri	University of Wisconsin-Madison	SSE: SCIFIO: An Extensible Framework for Scientific Image Interoperability	1148362	http://loci.wisc.edu/software/scifio
Ian Foster	University of Chicago & ANL	SSI: SciDaaS - Data Management as a Service	1148484	https://www.globusonline.org/about/sponsors/scidaas/
Brent Fultz	California Institute of Technology	Collaborative Research: Scientific Software Innovation Institute for Advanced Analysis of X-Ray and Neutron Scattering Data (SIXNS)	1216643	
Ganesh Gopalakrishnan	University of Utah	SSE: Correctness Verification Tools for Extreme Scale Hybrid Concurrency	1148127	http://www.cs.utah.edu/fv
Boyce Griffith	New York University Medical Center	SSE: Parallel and Adaptive Simulation Infrastructure for Biological Fluid-Structure Interaction	1047734	ibamr.googlecode.com
Matt Jones	University of California-Santa Barbara	Conceptualizing an Institute for Sustainable Earth and Environmental Software (ISEES)	1216894	
George Karypis	University of Minnesota-Twin Cities	SSE: Software Infrastructure For Partitioning Sparse Graphs on Existing and Emerging Computer Architectures	1048018	http://glaros.dtc.umn.edu/gkhome/views/metis
Mike Kirby	University of Utah	SSE: A GPU-Enabled Toolbox for Solving Hamilton-Jacobi and Level Set Equations on Unstructured Meshes	1148291	
Akos Ledezci	Vanderbilt University	SSI: Development of an Integrated Molecular Design Environment for Lubrication Systems (iMoDELS)	1047828	
Dane Morgan	University of Wisconsin-Madison	SSI: A Computational Materials Data and Design Environment	1148011	
Dan Negrut	University of Wisconsin-Madison	SSE Collaborative Research: SPIKE-An Implementation of a Recursive Divide-and-Conquer Parallel Strategy for Solving Large Systems of Linear Equations.	1147337	http://spikegpu.sbel.org/
Assad Oberai	Rensselaer Polytechnic Institute	SSE: Collaborative Research: Advanced Software Infrastructure for Biomechanical Inverse Problems	1148111	
Vijay Pai	Purdue University	Conceptualizing an Institute for Using Inter-Domain Abstractions to Support Inter-Disciplinary Applications	1216809	
Dhableswar Panda	Ohio State	SSI: A Comprehensive Performance Tuning Framework for the MPI Stack	1148371	
Philip Papadopoulos	UC San Diego	SSE: Fingerprinting Scientific Codes to Verify and Create Compatible System Software Environments	1148473	
Beth Plale	Indiana University	SSE: Pipeline Framework for Ensemble Runs on Clouds	1148359	http://d2i.indiana.edu/cloud-for-climate

Jeffrey Potoff	Wayne State University	SSE: Development of a GPU Accelerated Gibbs Ensemble Monte Carlo Simulation Engine	1148168	
Viktor Prasanna	University of Southern California	Software Infrastructure for Accelerating Grand Challenge Science with Future Computing Platforms	1216898	http://future-compute.usc.edu
James Pustejovsky	Brandeis University	SSI: The Language Application Grid: A Framework for Rapid Adaptation and Reuse	1147912	
John J. Rehr	University of Washington	SSE: Cloud-Computing-Clusters for Scientific Research	1048052	http://www.feffproject.org/scc/
Celeste Sagui	North Carolina State University	SSE: Software Tools for Biomolecular Free Energy Calculations	1148144	
Karsten Schwan	Georgia Tech Research Corporation	SSI: A Glass Box Approach to Enabling Open, Deep Interactions in the HPC Toolchain	1148310	
Shawn Shadden	Illinois Institute of Technology	SSE: Lagrangian Coherent Structures for Accurate Flow Structure Analysis	1047963	
John Shumway	Arizona State University	SSE: Developing and Deploying Path-Integral Quantum Simulation Tools for a Broad Research Community.	1148502	http://phys-tools.github.com/pi-qmc/
Hirata So	University of Illinois at Urbana-Champaign	SSE: Adaptive Software in Quantum Chemistry	1102418	
Edgar Spalding	University of Wisconsin-Madison	Determining the Cyberinfrastructure Needs for Efficient Phenomics Research	1216869	https://phenocept.discovery.wisc.edu/
Michael Stonebraker	Massachusetts Institute of Technology	SSE: SciDB - A Scientific DataManagement System	1047955	
Ricardo Taborda	CMU	SSI: A Sustainable Community Software Framework for Petascale Earthquake Modeling	1148493	
David Tarboton	Utah State University	SSI: An interactive software infrastructure for sustaining collaborative community innovation in the hydrologic sciences	1148453	
Sameer Tilak	UCSD	SSI: Empowering the Scientific Community with Streaming Data Middleware: Software Integration into Complex Science Environments	1148458	http://www.dataturbine.org/
Douglas Thain	Notre Dame	SSE: Connecting Cyberinfrastructure with the Cooperative Computing Tools	1148330	http://www.nd.edu/~ccl
Gregory E Tucker	University of Colorado at Boulder	SSE: Component-Based Software Architecture for Computational Landscape Modeling	1147454	
TBD		SSI: Open Source Support for Massively Parallel, Generic Finite Element Methods	1148116	http://www.dealii.org/

Robert van de Geijn	University of Texas at Austin	SSI: A Linear Algebra Software Infrastructure for Sustained Innovation in Computational Chemistry and other Sciences	1148125	
Eric Van Wyk	University of Minnesota-Twin Cities	SSE: Collaborative: Extensible Languages for Sustainable Development of High Performance Software in Materials Science	1047961	http://melt.cs.umn.edu/ietf-hpc-ms/
Jan Vitek	Purdue	SSE: A Tracing Virtual Machine for Statistical Computing,	1047962	http://r.cs.purdue.edu
Jan Vitek	Purdue	SI2: Conceptualization: Dynamic Languages for Scalable Data Analytics	1216853	
Ross Walker	University of California-San Diego	SSE:Sustained Innovation in Acceleration of Molecular Dynamics on future computational environments: Power to the People in the Cloud and on Accelerators	1148276	http://ambermd.org/gpus/
Shaowen Wang	University of Illinois at Urbana-Champaign	SSI: CyberGIS Software Integration for Sustained Geospatial Innovation	1047916	http://cybergis.cigi.uiuc.edu/
Michael Wilde	University of Chicago Computation Institute	SSE: Enhancement and Support of Swift Parallel Scripting	1148443	http://www.ci.uchicago.edu/swift
Nancy Wilkins-Diehr	University of California-San Diego	The Science Gateway Institute (SGW-I) for the Democratization and Acceleration of Science	1216870	http://sciencegateways.org
Theresa Windus	Iowa State University	SSI: Developments in High Performance Electronic Structure Theory	1047772	
Xiaodong Zhang	Ohio State University	SSE: A Unified Software Environment to Best Utilize Cache and Memory Systems on Multicores	1147522	
Vineet Yadav	Stanford University	SSI: Real-Time Large-Scale Parallel Intelligent CO2 Data Assimilation System	1047871	

Invited Participants

Neil P. Chue Hong, Director, Software Sustainability Institute, EPCC, <http://www.epcc.ed.ac.uk/about-us/staff/chue-hong-neil/>

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James Howison, University of Texas at Austin, <http://james.howison.name>

Michael McLennan, Purdue University, <http://hubzero.org/members/1016>

Jarek Nabrzyski, University of Notre Dame, <http://crc.nd.edu/index.php/aboutcrc/92>

James Taylor, Emory University, <http://bx.mathcs.emory.edu>

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