

Jonathan Carter

Jonathan Carter heads the User Services Group at NERSC, which is charged with enabling the science of our user community on our high-performance computer systems. He is also project manager for NERSC-6, the next generation computer system to be installed in 2010. His research interests include evaluating system architectures for scientific algorithms, lattice Boltzmann models, and bioinformatics algorithms. Prior to joining LBNL, he worked at IBM Almaden Research Laboratory in the computational chemistry group.

Mike Heroux

Mike Heroux worked at Cray Research from 1988 to 1998, developing mathematical libraries for sparse and dense systems of equations, working with industrial applications and representing application needs for future architectures. Presently he is a Distinguished Member of the Technical Staff at Sandia National Laboratories, working on new algorithm development, and parallel solver components. He leads development of the Trilinos Project, an effort to provide scalable computational methods in a modular software framework. He also leads the Mantevo project, which is focused on the development of Open Source, portable micro-applications and micro-drivers for scientific and engineering applications.

Phil Jones

Phil Jones is the project leader of the Climate, Ocean and Sea Ice Modeling (COSIM) Project and Deputy Group Leader of the Fluid Dynamics and Solid Mechanics Group in the Theoretical Division at Los Alamos National Laboratory. He has been active in climate and ocean modeling for over 15 years and is the software developer and architect of the Parallel Ocean Program (POP) and its successor HYPOP, both ocean general circulation models used for climate research. Phil has also been involved in the development of fully coupled climate models like the Community Climate System Model (CCSM) and the Parallel Climate Model (PCM), including conservative interpolation methods needed for passing information between atmosphere, ocean, ice and land component models. Other research interests include high performance computing and the computational performance of climate models. He holds a Ph.D. in Astrophysical, Planetary and Atmospheric Sciences from the University of Colorado, Boulder and a B.S. in Physics and Math from Iowa State University.

Kalyan Kumaran

Kalyan Kumaran manages the application performance engineering team at Argonne's Leadership Computing Facility (ALCF). The team's mission is to help scientific users maximize the performance of their applications on ALCF's Blue Gene. Prior to joining Argonne Kalyan managed performance engineering teams at Silicon Graphics inc (SGI) and VMware for several years. Kalyan works very closely with the benchmarking community to develop HPC benchmarks for characterizing performance of systems. He has been the Chair of the SPEC High Performance Group (HPG) since 2003 and has served for several years on the

Board of Directors of SPEC. He was a key developer of several benchmarks including SPEC CPU2006 and SPEC MPI2007. Kalyan holds a PhD degree in the area of Computational Fluid Dynamics (CFD) from Iowa State University.

Piyush Mehrotra

Dr. Piyush Mehrotra brings more than 27 years of research and development experience in various areas of parallel and distributed computing. His doctorate thesis and early work focused on language extensions, compilers and runtime systems for parallel computation on shared and distributed memory systems. He transitioned to designing and building middleware technologies for grid systems including programming environments for workflow systems and runtime support required to manage and execute them in distributed grid environments. Since May 2005 he has been managing the Applications Performance and Productivity Group of the NASA Advanced Supercomputing (NAS) Division whose efforts include enhancing the parallel performance of NASA codes so as to effectively utilize the underlying parallel architectures. Dr. Mehrotra has published over 85 papers in journals, refereed conferences and workshops.

Nir Paikowsky

Nir Paikowsky is the Director of Performance and Application Engineering at ScaleMP, a virtualization software provider for high-end computing. The performance engineering group works with ISVs and end-users to improve the performance of the applications, as well as developing tools and libraries to improve end-user productivity.

Bronis R. de Supinski

Bronis R. de Supinski is the co-leader in the Advanced Simulation and Computing (ASC) program's Application Development Environment and Performance Team (ADEPT) at Lawrence Livermore National Laboratory (LLNL). His research interests include high performance computer architectures, performance modeling and analysis, message passing implementations and tools, memory performance improvement, cache coherence and distributed shared memory, consistency semantics and programming models. Bronis earned his Ph.D. in Computer Science from the University of Virginia in 1998 and he joined LLNL's Center for Applied Scientific Computing (CASC) in July 1998. Currently, his projects include applications of data mining techniques to performance analysis and modeling, scalable debugging methods, investigations into mechanisms and tools to improve memory performance, a variety of optimization techniques and tools for MPI and several issues with OpenMP, including its memory model and tool support. He pursues the last set of topics as the Chair of the OpenMP Language Committee. Throughout his career, Bronis has won several awards, including the prestigious Gordon Bell Prize in 2005 and 2006. He is a member of the ACM and the IEEE Computer Society.

Trey White

Trey White is a Computational Scientist at the National Center for Computational Sciences. He is currently the interim Leader of the User Assistance and Outreach Group, but he will soon resume his role of supporting climate science at the NCCS.