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November 13-19, 2010 • Ernest N. Morial Convention Center • New Orleans, Louisiana

The Future of Discovery



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The International Conference for High Performance Computing, Networking, Storage and Analysis

About SC10

New Orleans is where the future began for renowned discoverers and innovators of the past, and in November 2010, The Big Easy plays host to discoverers of the future at SC10, the 23rd meeting in the conference's annual history.

It's a great match. No city in the world is better known for its celebrations and its ability to reinvent itself. And no conference rivals SC10's planned international lineup of celebrated speakers, panel participants, presentations, workshops and exhibits featuring the latest breakthroughs in high-performance computing, networking, storage and analysis.

Spotlighting the most original and fascinating scientific and technical applications from around the world, SC10 will bring together an unprecedented array of scientists, engineers, researchers, educators, programmers, system administrators, developers and program managers and an exceptional program of technical papers, tutorials and timely research posters. SC10's Exhibition Hall will be second to none, featuring exhibits from international participants representing industry, academia and government research organizations.

Mark your calendar and make your way to New Orleans – be there for SC10, November 13-19. No city dishes out a bigger helping of southern hospitality, and no conference offers a better opportunity not just to glimpse the future of computing, but to participate in it—and collaborate with its discoverers.

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What's New

Technology Thrusts: *Climate Simulation, Heterogeneous Computing, Data Intensive Computing*

Climate Simulation

This special thrust area will explore the latest research and development efforts that are taking advantage of HPC systems to enable climate simulation applications and techniques. These include applied mathematics, algorithms, verification and validation, statistics, computer science, atmospheric chemistry, as well as environmental and societal impacts. **Questions:** thrust-climate@info.supercomputing.org

Heterogeneous Computing

The advent of the Road Runner supercomputer as well as the GPU accelerator movement towards HPC has demonstrated the beginning of accelerator-based computing at a large scale. Many think accelerated HPC is the primary path to Exascale computing. This thrust area will primarily focus on software infrastructure for making effective use of accelerator or heterogeneous supercomputers and will showcase lessons learned as well as highlight next steps to move such initiatives forward. **Questions:** thrust-hetero@info.supercomputing.org

Data Intensive Computing

Many more scientific domains are increasingly creating huge data requirements from both their simulation and specific experimental activities. The focus of this thrust area will be on how data is shared and communicated among participating scientists – specifically examining the hardware and software infrastructure that is needed to effectively share large data sets. **Questions:** thrust-data@info.supercomputing.org

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