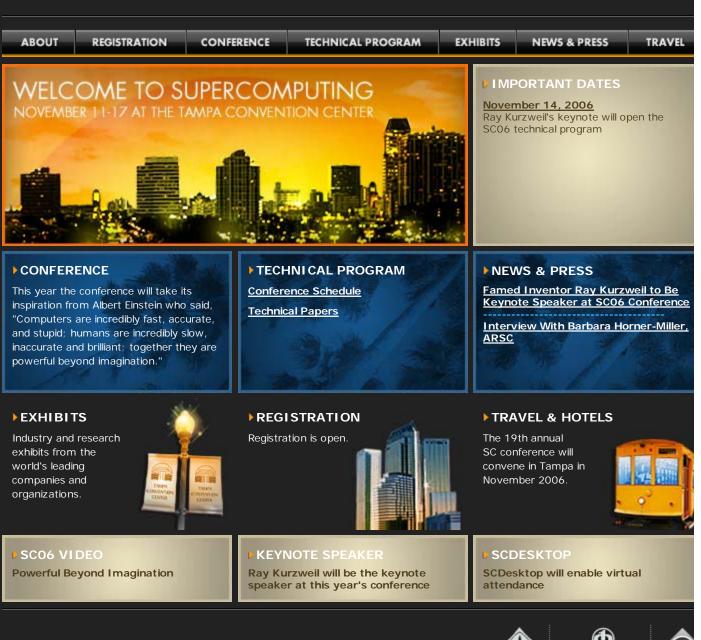


SCO6 is the International Conference for High Performance Computing, Networking, Storage and Analysis

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SC06 is the International Conference for High Performance Computing, Networking, Storage and Analysis

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ABOUT SC06

SC06, the premier international conference on high performance computing, networking, storage and analysis, will convene in November 2006 in Tampa. This year the conference will take its inspiration from Albert Einstein who said "Computers are incredibly fast, accurate and stupid; humans are incredibly slow, inaccurate and brilliant; together they are powerful beyond imagination."

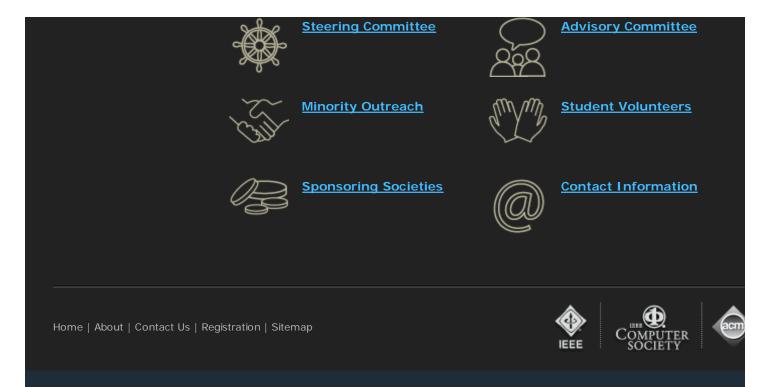
Following the traditions set with the first SC conference in 1988, exciting technical and educational programs, workshops, tutorials, exhibits, demonstrations and many other activities await attendees. SC06 is the one place where attendees can see tomorrow's technology being used to solve world-class challenge problems today.

SC06 will explore the ways in which high performance computing, networking, storage and analysis lead to advances in research, education and commerce. Innovative and diverse technologies are implemented within the HPC world every year. SC06 will introduce a new initiative focusing on those emerging concepts and technologies that hav the potential to reshape the HPC landscape, add a new <u>Storage Challenge</u>, extend the education program to support students with learning and physical disabilities, and host a <u>ACM Student Research Competition</u>. The Analytics initiative that was introduced last year will also evolve during the SC06 planning process. The SC conference has grown substantially, with registered attendance at SC|05 approaching 10,000. This attendance provides an excellent forum for researchers to explore ideas and build collaborations.



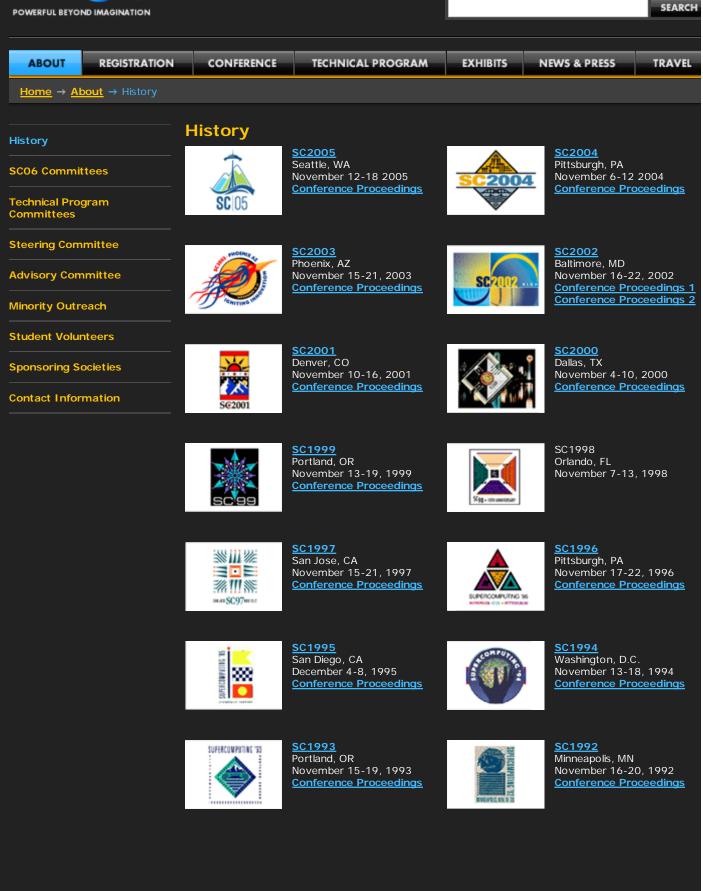


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<u>SC1991</u> Albuquerque, NM November 18-22, 1991 <u>Conference Proceedings</u>



<u>SC1990</u> New York, NY November 12-16, 1990 <u>Conference Proceedings</u>

Supercomputing'89

<u>SC1989</u> Reno, NV November 13-17, 1989 <u>Conference Proceedings</u>

SUPERCOMPUTING '88

EEE

<u>SC1988</u> Orlando, FL November 14-18, 1988 <u>Conference Proceedings</u>



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SC06 Committees				September 4, 2006				
		Submissions Due						
Technical Program Committees		August 25, 2006		<u>Questions</u>				
Steering Comn	nittee							

Program Overview

The Minority Outreach Program within the SC (Supercomputing Conference) offers a unique opportunity for underrepresented groups to witness and directly participate in the discovery of advancements being made in the high performance computing environment. The SC, with its global reach and innovative approach, is the perfect venue for this to occur. At this conference, traditionally underrepresented groups have the opportunity to exchange knowledge and skills with each other and with the broader community about their techniques and processes used to exploit and support these advanced technologies. Access to state of the art equipment and demonstrations provide a first-hand exclusive opportunity for the participants that may not be available otherwise. The Minority Outreach Program within the overall context of the Conference allows for a more diverse community to attend the conference and to gain access to technical discussions, panel debates on best practices, and other critical resources that potentially provide a competitive advantage for others when developing products and services for their respective markets and communities. Ensuring representation by specifically funding underrepresented groups of individuals demonstrates social responsibility by the ACM and the IEEE in providing mainstream access of high performance computing and information technology advancements to this community.

IEEE and ACM have funded the SC Minority Outreach Program since it's inception in 2000 The intended impact of this program goes beyond increasing the number of minority participants in the SC conference. It allows for the fostering of collaborative relationships between faculty, IT professionals, students at minority serving institutes (MSIs), and research scientists at major research centers, as well as impacting the amount and qualit of computational science education at MSIs.

Through the Minority Outreach Program selected grant recipients will be invited to participate in either the Tutorials Program or the Technical program. In addition to the complementary conference registration, grant recipients will be reimbursed for their SC expenses for lodging and transportation, up to an agreed upon amount.

Grant Application Process

To apply candidates should complete and submit the <u>SC Minority Outreach Program</u> <u>Grant Application Form</u> by August 25, 2006. Applicants will be notified of their acceptance via e-mail by September 4, 2006. Awards will be made until all slots are filled

Selection Criteria

The SC Minority Outreach Program will select up to 40 participants.

To be considered for funding, applicants:

- Must be a minority faculty, IT professional, or student;
- Must be either a US citizen or permanent resident; and
- Must be able to showcase a research project or give a poster presentation in the Minority Outreach Program's Research Booth

In addition, grant recipients are expected to participate in scheduled booth activities, develop a presentation to share their SC experience with their colleagues at their home institutions; and complete an evaluation survey of the Minority Outreach Program.

Applicants that have not previously participated in the SC will be given first priority for funding. Those that have been funded more than three times will not be considered.

Financing Participants

The Minority Outreach Program will fund up to 40 participants in the amount of \$1,500 each to attend the SC. Individual reimbursements will cover the cost of travel and lodging up to the amount of \$1,500. Expenses exceeding \$1,500 will not be reimbursed and will be the responsibility of the participant or their institution. In addition to the reimbursement, participants will be given a complementary SC registration for either the Technical Program or the Tutorials Program. The Tutorial Program participants will also receive a pass to the SC Exhibits Hall. The grant award is non-transferable.

Travel to and from the conference is to be conducted at the least overall cost to the conference. Only airfare less than or equal to domestic coach fare will be reimbursed, to a maximum of \$600. Advance purchase tickets should be used where there is a substantial cost savings and the risk of cancellation penalties is not severe. (In some cases there may be a significant savings on airfare fares by staying over a Saturday night. In order to be reimbursable, the overall cost savings must be greater than the least expensive airfare without the Saturday night stay plus the hotel expenses incurred due the additional nights. The Minority Outreach Program Chair must approve this option at least two weeks prior to travel. Documentation of the savings must accompany the reimbursement request.)

If the traveler elects to drive to the conference, reimbursement will be limited to the lesser of coach airfare, or hotel parking expenses plus \$0.405/mile. This option will be permitted only if the approval is obtained at least two weeks prior to travel. Documentation of the savings must accompany the reimbursement request.

Travelers are also expected to use cost effective methods of ground transportation. Car rentals are not reimbursable. Travel between your residence/work and the airport will be reimbursed at \$0.405/mile. Travelers will be reimbursed for reasonable costs for local transportation, which includes taxi, shuttle, bus, and train expenses (whenever available, airport shuttles should be used). Long-term airport parking fees will be reimbursed.

Travelers will receive \$54.00 per day to cover all meals and incidental expenses in Tampa The Per Diem will be reduced when meals are provided by the conference, even if the traveler elects not to eat them. The Tampa reduction will be \$26 for dinner, \$15 for lunch and \$10 for breakfast.

A block of rooms will be reserved specifically for the Minority Outreach Program participants at a conference hotel. A deadline will be established for room reservations; after this date, hotel reservations must be made using the SC06 on-line housing reservation system on the SC06 website. Conference rates will not be given to participant

who contact hotels directly. Rooms in the Minority Outreach Program block, which, can be booked for a maximum of seven nights (single occupancy), will be billed directly to the Minority Outreach Program master account. For those participants who choose to stay at other hotels, a maximum of seven nights lodging expenses will be reimbursed, with the per-night lodging expense limited to the cost of a single-occupancy room at the designated hotel.

Each program participant will receive a complimentary registration for either the Tutorials or the Technical Program. Individuals wishing to attend both parts of the conference mus register – and pay the fees associated with – the second portion using the standard SC web registration page.

Reimbursements will be processed within eight weeks after the conference, upon receipt of the SC Travel Expense Report, original receipts, and the SC Minority Outreach Program survey. Detailed travel expense guidelines will be available in mid-August.

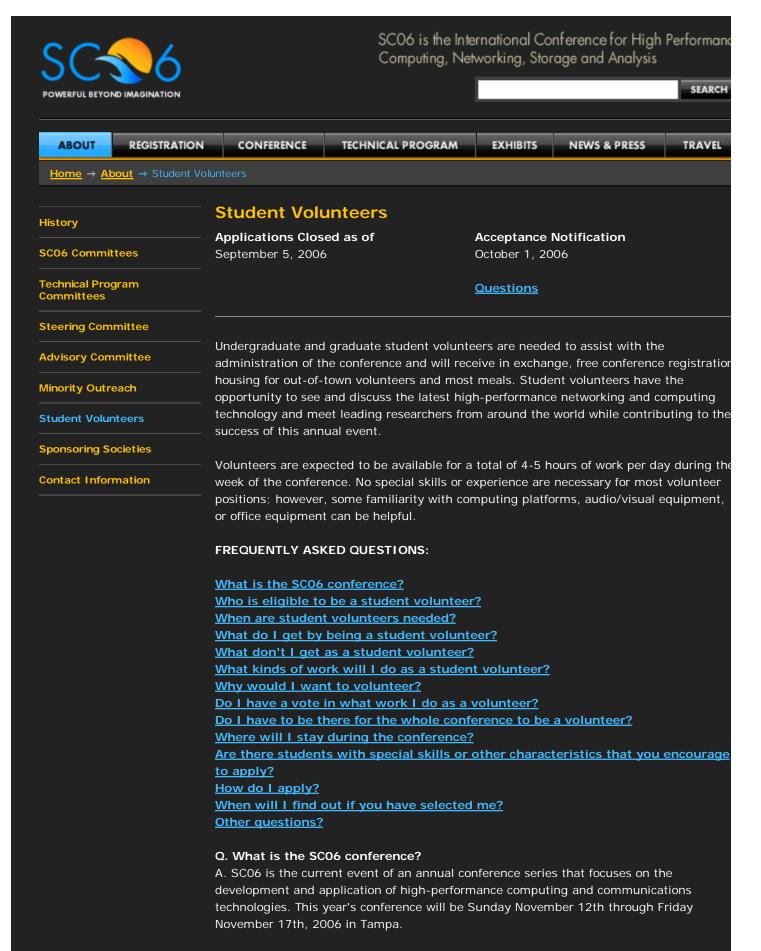
Conference Registration Procedures

Once participants are selected to the SC06 Minority Outreach Program and they have confirmed their acceptance to the program, the Minority Outreach Program committee wil provide further guidance on the SC registration procedures.

For additional information, please email: Valerie B. Thomas at vthomas@hpcmo.hpc.mi







Q. Who is eligible to be a student volunteer?

A. Any full time college student may become a student volunteer at SC06. Both undergraduate and graduate students are welcome. You will need a recommendation fron one of your professors. High school students are not encouraged to apply.

Q. When are student volunteers needed?

A. Official conference activities will start on Sunday November 12th and last through Friday at noon on November 17th. Student Volunteers are expected to arrive at the conference on Saturday afternoon November 11th for a Student Volunteer Orientation tha evening.

Some volunteers are needed the week prior to the conference and a few days after for setup and/or teardown support on a few programs. Please indicate in your application if you are both interested and available before or after the official conference dates.

Q. What do I get by being a student volunteer?

A. The conference provides students with:

- Registration to the conference including technical sessions and keynote addresses
- Access to the exhibit floor
- Hotel accommodations at one of the conference hotels (out-of-town volunteers only)
- Conference proceedings on CD-ROM
- Admission to special events on Monday and Thursday evenings
- Meals during conference hours

Q. What don't I get as a student volunteer?

A. There are some important considerations for you to be aware of.

- Student volunteers are responsible for their travel expenses. In some cases, your school may be able to provide assistance.
- There are a few meals that are not provided by the conference committee. (Sunday, Tuesday and Wednesday dinner, for example).
- Extended-stay students may have additional meals not provided by the conference

Q. What kinds of work will I do as a volunteer?

A. There is a wide variety of volunteer tasks and we make our best effort to provide each student volunteer with a variety of duties. Many of the tasks are administrative but because they are often in support of sessions, volunteers have the opportunity to listen to some exciting presentations.

Students distribute and collect evaluation forms in each tutorial and technical session, assist speakers with handouts or A/V equipment and help with registration. Some positions require extended hours and days.

Q. Why would I want to volunteer?

A. Most volunteers are expected to work approximately 4-5 hours per day during the conference week. The rest of the time is available to attend technical sessions or visit vendor and research exhibits and network with thousands of people in the high-performance computing and communications community.

Q. Do I have a say in what work I do as a volunteer?

A. Not much, but we'll do what we can. There are often fewer volunteers than tasks. Unanticipated tasks can pop up anytime so we ask that volunteers be flexible and willing to help as needed. If you have special skills, we will try to use them.

Q. Do I have to be there for the whole conference to be a volunteer?

A. No. We realize that other commitments (like school) exist. We hope that students loca to the Tampa area will be able to be flexible. You will need to be able to devote enough time to work 4-5 hours per day during the conference.

Q. Where will I stay during the conference?

A. Rooms will be available for out-of-town student volunteers at no cost. Room assignments are made as we get closer to the conference. The rooms are double occupancy. Roommate requests (roommates of the same gender) will be honored if possible.

Q. Are there students with special skills or other characteristics that you encourage to apply?

A. Some of our programs require special skills and extended volunteer time. Students wit an interest in networking who can help the week before the conference are encouraged to apply. We also need students who can speak Japanese to assist at registration. This year (like last year) the conference is focusing on diversifying the student volunteer populatior So, students from under-represented groups are especially encouraged to apply. International students are also encouraged to apply.

Q. How do I apply?

A. Apply Here!

You need to provide basic information about yourself and why you want to attend SC06 a a student volunteer. You also need to provide the name and e-address of a professor who will recommend you.

Q. When will I be notified regarding my application?

A. Applications will be accepted through Tuesday September 5th. We hope to have decisions made and volunteers notified by October 1st.

Q. Other questions?

If you have any additional questions, please email us at students@sc06.supercomputing.org









PROFESSIONAL SOCIETY REPRESENTATION

Ann Marie Kelly, IEEE Computer Society Donna Baglio, ACM









SC06 is the International Conference for High Performance Computing, Networking, Storage and Analysis

SEARCH

POWERFUL BEYON	DIMAGINATION					SEARCH
ABOUT	REGISTRATION	CONFERENCE	TECHNICAL PROGRAM	EXHIBITS	NEWS & PRESS	TRAVEL
<u>Home</u> → <u>Ab</u>	out → Contact Inf	ormation				
		Contact Info)			
History			ommittee email addresses	are arranged	alphabetically. Plea	ise send
SC06 Commit	tees	correspondence to	the appropriate contact for			
Technical Prog	Iram	initiatives:				
Committees			earch Competition			
Steering Com	nittee	src@sc06.superco	omputing.org			
Advisory Com	mittee	Awards				
Minority Outre	each	awards@scub.sup	percomputing.org			
Student Volun	teers	Birds-of-a-Feather	er (BOF) r@sc06.supercomputing	ora		
Sponsoring So	cieties	Difus-or-a-reatrie	rescoo.supercomputing	<u>.org</u>		
		Education edu@sc06.superc	computing org			
Contact Inform	mation		omputnig.org			
		Exhibitor Forum				
		exhibitor-forum@	esc06.supercomputing.o	rg		
		Exotic Technolog				
		<u>exotic-technolog</u>	ies@sc06.supercomputir	<u>ng.org</u>		
		HPC Analytics				
		analytics@sc06.s	upercomputing.org			
		HPC Analytics Ch	allenge			
		analytics@sc06.s	upercomputing.org			
		HPC Bandwidth C				
		bwc@sc06.superc	computing.org			
		Industry Exhibits				
		industry-exhibits	@sc06.supercomputing.	org		
		Invited Speakers				
		invited-speakers	@sc06.supercomputing.c	org		
			cal Challenges Education	n		
		lpce@sc06.superc	computing.org			
		Masterworks				
		masterworks@sci	06.supercomputing.org			

Media

media@sc06.supercomputing.org

MSI Outreach msi@sc06.supercomputing.org

Panels panels@sc06.supercomputing.org

Posters posters@sc06.supercomputing.org

Research Exhibits research-exhibits@sc06.supercomputing.org

SCGlobal and SCDesktop scglobal@sc06.supercomputing.org

SCinet scinet@sc06.supercomputing.org

Student Volunteers students@sc06.supercomputing.org

Technical Papers papers@sc06.supercomputing.org

Technical Program program@sc06.supercomputing.org

Tutorials tutorials@sc06.supercomputing.org

Workshops workshops@sc06.supercomputing.org

Website Content <u>communications@sc06.supercomputing.org</u>

Website Technical Issues / Broken Links <u>sc06@ultra16.com</u>









SCO6 is the International Conference for High Performance Computing, Networking, Storage and Analysis

SEARCH



REGISTRATION

The registration desk and conference store are located in the Level 2 lobby outside the Exhibits Hall.

Registration Desk Hours

Saturday, Nov. 11 1:00p – 6:00p Sunday, Nov. 12 7:30a – 6:00p Monday, Nov. 13 7:30a – 8:30p Tuesday, Nov. 14 7:30a – 5:00p Wednesday, Nov. 15 7:30a – 5:00p Thursday, Nov. 16 7:30a – 5:00p Friday, Nov. 17 8:00a – 11:00a

Registration Levels

Attendees may register for the Technical Program, Tutorials, or Exhibits-only. Badge replacement (for any class of registration) will cost \$40.

Prices for Retirees is the same as that for Students.

	Before October 16, 2006	Starting October 16, 2006	On Site
TECHNICAL PROGRAM			
Registration, Member	\$390	\$560	\$560
Registration, Non-Member	\$495	\$700	\$700
Registration, Student	\$100	\$150	\$150

TUTORIALS, ONE DAY PASSPORT			
Registration, Member	\$375	\$525	\$525
Registration, Non-Member	\$485	\$660	\$660
Registration, Student	\$100	\$150	\$150
TUTORIALS, TWO DAY PASSPORT			
Registration, Member	\$595	\$825	\$825
Registration, Non-Member	\$755	\$1,035	\$1,035
Registration, Student	\$160	\$240	\$240
EXHIBITS			
Registration, All	\$100	\$100	\$100
	By October		

31st, 2006

SC DESKTOP (Remote Attendance)

Registration, Node	\$795	
Registration, Non-Member	\$70	
Registration, Member	\$60	
Registration, Student	\$15	

Each registration category provides access to a different set of conference activities, as summarized below.

	Tutorials (on day(s) of passport)	Technical Program	Exhibitor	<mark>Exhibits</mark> Tuesday- Thursday	Education Program
SCinet access (Sun-Thurs)	Yes	Yes	Yes	Yes	Yes
Keynote (Tuesday)		Yes	Yes	Yes	Yes
Exhibit Floor (Tues- Thurs)		Yes	Yes	Yes	
Exhibitor Forum (Tues-Thurs)		Yes	Yes	Yes	Yes
Posters (Tues-Thurs)		Yes	Yes	Yes	Yes
Poster Reception (Tues)		Yes	Yes	Yes	Yes
SC Global Showcase (Tues-Thurs)		Yes	Yes	Yes	Yes
Birds of a Feather (Tues-Thurs)		Yes	Yes	Yes	Yes
Challenge Presentations (Tues)		Yes	Yes		Yes
Panels (Friday)		Yes	Yes		Yes

Exhibits Opening Gala (Mon)		Yes	Yes	Yes
Scatter-Gather (Tues, Thurs)		Yes	Yes	
Tech Papers (Tues- Thurs)		Yes		
Masterworks (Tues- Thurs)		Yes		
Plenary Speakers (Wed, Thurs)		Yes		
Panels (Wed-Thurs)		Yes		
Workshops (Sun, Mon, Fri)		Yes		
Tutorial Sessions	Yes			
Tutorial Lunch	Yes			
Conference Party (Thurs)		Yes		
Exhibitors Party (Sun)			Yes	Yes
Education Program & Meals				Yes





ER

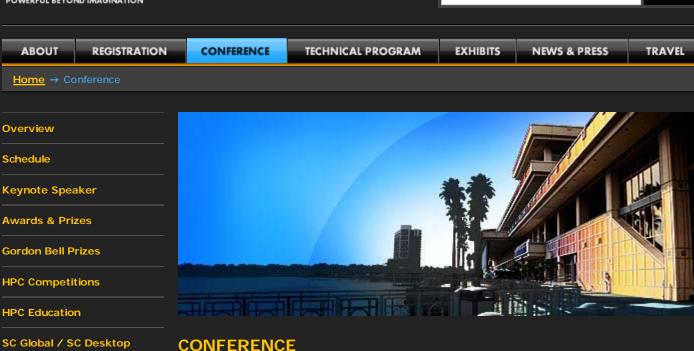


SCinet

Exotic Technologies

SCO6 is the International Conference for High Performance Computing, Networking, Storage and Analysis

SEARCH



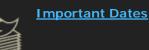
CONFERENCE

SC06, the premier international conference on high performance computing, networking and storage, will convene in November 2006 in Tampa, Florida. This year the conference will take its inspiration from Albert Einstein who said "Computers are incredibly fast, accurate and stupid; humans are incredibly slow, inaccurate and brilliant; together they are powerful beyond imagination."















HPC Competitions

SC Global





Schedule





Awards & Prizes



HPC Education



SCinet



		,			SEARCH	
ABOUT REGISTRATION	CONFERENCE	TECHNICAL PROGRAM	EXHIBITS	NEWS & PRESS	TRAVEL	
Home → Conference → Overv	view					
Overview	Overview	international conference o	n high porfor	manco computing	notworking	
Schedule	and storage, will co	onvene in November 2006	in Tampa, Flo	orida. This year the	conference	
Keynote Speaker	accurate and stupic	tion from Albert Einstein w d; humans are incredibly s d imagination "				
Awards & Prizes	are powerful beyon	u imagination.				
Gordon Bell Prizes		tions set with the first SC (ms, workshops, tutorials, e				
HPC Competitions		endees. SC06 is the one pl sed to solve world-class cl			norrow's	
HPC Education						
SC Global / SC Desktop	attendance in exce	e growth over the past yea ss of 7,000. This attendan	ce provides a			
SCinet	researchers to expl	ore ideas and build collabo	prations.			
Exotic Technologies	The following are some of the SC06 highlights:					
	SC06 provides a rigorous technical paper program with refereed papers on systems hardware and software, networking, storage, instruments, sensors, grids and web servi along with novel applications of these technologies to problems of interest to science, engineering, business and society.					
	SC06 also provides an engaging 2-day tutorials program that welcomes attendees to explore the practical aspects of a full spectrum of high performance computing, networking, storage and analysis topics. Tutorial attendees have the opportunity to learn about new topics and investigate familiar topics in-depth with other experts.					
	Upgrades in systems, bandwidth and networking technologies over the last decade have resulted in dramatic increases in performance, scalability and overall computational pow in high performance computing. More than ever before, organizations in commercial, government, university and research sectors are tasked with making sense of huge amounts of data.					
	visualization used i applications solving high performance of research, education within the HPC wor	again highlight rigorous an n high performance compo- g complex, real-world prob- computing, networking, sto n and commerce. Innovativ Id every year. SC06 will in and technologies that hav	uting by show plems. SCO6 v prage and ana ve and divers ptroduce an in	vcasing powerful an vill explore the way alysis lead to advan e technologies are i itiative focusing on	alytics s in which ces in mplemente those	
	The SCO6 Educatio	n Program will continue th	o program bo	aun in 2005 to brir	o K 16	

The SC06 Education Program will continue the program begun in 2005 to bring K-16 teachers and faculty to the conference and provide them the tools and expertise to

incorporate modeling and simulation into their classrooms.

SC06 will be the foremost place to learn about the most important developments in High Performance Computing. On behalf of the organizing committee, we invite you to join us for a stimulating week in November 2006.





SC06 Schedule

Saturday, Nov 11					
Туре	Session	Event	Chair/Speaker	Location	
Education Program	Registration	Registration		Salon I-III (Marriott)	
Education Program	Breakfast	Breakfast		Salon I-III (Marriott)	
Education Program	Welcome and Introductions	Welcome and Introductions		Salon I-III (Marriott)	
Education Program	Introduction to Cyberinfrastructure	Introduction to CyberInfrastructure		Salon I-III (Marriott)	
Education Program	Guest Speaker - Dale Jackson, EA Sports	Guest Speaker - Dale Jackson, EA Sports		Salon I-III (Marriott)	
Education Program	Introduction to 3DS Max - Part 1	Introduction to 3DS Max - part 1		Salon I-III (Marriott)	
Education Program	Saturday Lunch	Saturday Lunch		Salon IV (Marriott)	
Education Program	Introduction to 3DS Max - Part 2	Introduction to 3DS Max - Part 2		Salon I-III (Marriott)	
Education Program	Introduction to Education Booth - Demos	Introduction to Education Booth - Demos		Salon I-III (Marriott)	
Education Program	Education Program Reception - Hilton Swimming Pool	Education Program Reception - Hilton Swimming Pool			
	Education Program Education Program Education Program Education Program Education Program Education Program Education Program Education Program Education Program Education Program	Education ProgramRegistrationEducation ProgramBreakfastEducation ProgramBreakfastEducation ProgramWelcome and IntroductionsEducation ProgramIntroduction to CyberinfrastructureEducation ProgramGuest Speaker - Dale Jackson, EA SportsEducation ProgramIntroduction to 3DS Max - Part 1Education ProgramIntroduction to 3DS Max - Part 1Education ProgramIntroduction to 3DS Max - Part 2Education ProgramIntroduction to 3DS Max - Part 2Education ProgramIntroduction to 3DS Max - Part 2Education ProgramIntroduction to Education Booth - DemosEducation ProgramEducation Program Reception - Hilton	Education ProgramRegistrationRegistrationEducation ProgramBreakfastBreakfastEducation ProgramBreakfastBreakfastEducation ProgramWelcome and IntroductionsWelcome and IntroductionsEducation ProgramIntroduction to CyberinfrastructureIntroduction to CyberInfrastructureEducation ProgramIntroduction to CyberinfrastructureIntroduction to CyberInfrastructureEducation ProgramGuest Speaker - Dale Jackson, EA SportsGuest Speaker - Dale Jackson, EA SportsEducation ProgramIntroduction to 3DS Max - Part 1Introduction to 3DS Max - part 1Education ProgramIntroduction to 3DS Max - Part 2Introduction to 3DS Max - part 2Education ProgramIntroduction to 3DS Max - Part 2Introduction to 3DS Max - Part 2Education ProgramIntroduction to 3DS Max - Part 2Introduction to Education Booth - DemosEducation ProgramIntroduction to Education Booth - DemosIntroduction Program Reception - Hilton	Education ProgramRegistrationRegistrationEducation ProgramBreakfastBreakfastEducation ProgramMelcome and IntroductionsBreakfastEducation ProgramWelcome and IntroductionsWelcome and IntroductionsEducation ProgramIntroduction to CyberinfrastructureIntroduction to CyberinfrastructureEducation ProgramIntroduction to Jackson, EA SportsIntroduction to 3DS Max - part 1Education ProgramIntroduction to 3DS Max - Part 1Introduction to 3DS Max - part 2Education ProgramIntroduction to 3DS Max - Part 2Introduction to 3DS Max - Part 2Education ProgramIntroduction to 3DS Max - Part 2Introduction to 3DS Max - Part 2Education ProgramIntroduction to 3DS Max - Part 2Introduction to 3DS Max - Part 2Education ProgramIntroduction to 3DS Max - Part 2Introduction to 3DS Max - Part 2Education ProgramIntroduction to Education Booth - DemosIntroduction to Education Booth - DemosEducation ProgramEducation Program Reception - HiltonEducation Program Reception - Hilton Swimming Pool	

Sunday, Nov 12

Time	Туре	Session	Event	Chair/Speaker	Location
8:00AM - 3:00PM	Workshop	GCE06 (Day 1)	GCE06 - Grid Computing Environments 2006	Gregor von Laszewski	Salon G (Marriott)
8:00AM - 3:00PM	Workshop	Performance Analysis and Optimization	International Workshop on Performance Analysis and Optimization of High-End Computing Systems	Xian-He Sun	Salon J (Marriott)
8:00AM - 3:00PM	Workshop	Procurement	Best Practice in HPC Procurements	William T.C. Kramer	Salon I (Marriott)
8:00AM - 3:00PM	Workshop	TeraGrid Institute	TeraGrid Institute	Scott Lathrop	Salon H (Marriott)
8:30AM - 5:00PM	Tutorial	S01	Advanced MPI: I/O and One-Sided Communication	William Gropp, Ewing Lusk, Rajeev Thakur, Robert Ross	21
8:30AM - 5:00PM	Tutorial	S02	Parallel Computing 101	Quentin F. Stout, Christiane Jablonowski	23

8:30AM - 5:00PM	Tutorial	S03	Application Development Using Eclipse and the Parallel Tools Platform	Greg Watson, Craig Rasmussen, Beth Tibbitts	18
8:30AM - 5:00PM	Tutorial	S04	Introduction to Scientific Workflow Management and the Kepler System	Ilkay Altintas, Bertram Ludaescher, Scott Klasky, Mladen A. Vouk	19
8:30AM - 5:00PM	Tutorial	S05	A Practical Approach to Performance Analysis and Modeling of Large-Scale Systems	Darren J Kerbyson, Adolfy Hoisie	17
8:30AM - 5:00PM	Tutorial	S06	Computing Protection in Open HPC Environments	Stephen Q. Lau, Scott Campbell, William T. Kramer, Brian L. Tierney	24
8:30AM - 5:00PM	Tutorial	S07	GPGPU: General-Purpose Computation on Graphics Hardware	David Luebke, Mark Harris, Naga Govindaraju, Aaron Lefohn, Mike Houston, John Owens, Mark Segal, Matthew Papakipos, Ian Buck	25
8:30AM - 12:00PM	Tutorial	S08	Introduction to OpenMP	Tim Mattson	20
8:30AM - 12:00PM	Tutorial	S09	Eliminating Parallel Application Memory Bugs with TotalView	Chris Gottbrath	1-2
8:30AM - 12:00PM	Tutorial	S10	Open SpeedShop: Open Source Performance Analysis for Linux Clusters	Martin Schulz, Scott Cranford, Nathan DeBardeleben, James E. Galarowicz, Don Maghrak	22
8:30AM - 9:00AM	Education Program	Welcome and Logistics	Welcome and Logistics		Salon I-III (Marriott)
9:00AM - 10:00AM	Education Program	Plenary Session - Google	Plenary Session - Google		Salon I-III (Marriott)
10:30AM - 12:00PM	Education Program	Parallel Session - Sketchup	Parallel Session - Sketchup		Salon V (Marriott)
10:30AM - 12:00PM	Education Program	Parallel Session - Squeak	Parallel Session - Squeak		Salon IV (Marriott)
12:00PM - 1:30PM	Education Program	Sunday Lunch	Sunday Lunch		Salon I-III (Marriott)
1:30PM - 3:00PM	Education Program	nanoHUB - Online Simulation	nanoHUB - Online Simulation		Salon I-III (Marriott)
1:30PM - 5:00PM	Tutorial	S11	Principles and Practice of Experimental Performance Measurement and Analysis of Parallel Applications	Luiz DeRose, Bernd Mohr	1-2
1:30PM - 5:00PM	Tutorial	S12	The HPC Challenge (HPCC) Benchmark Suite	Piotr R Luszczek, David H Bailey, Jack J Dongarra, Jeremy Kepner, Robert F Lucas, Rolf Rabenseifner, Daisuke Takahashi	20
1:30PM - 5:00PM	Tutorial	S13	Cluster Storage and File System Technologies	Brent Welch, Marc Unangst	22
3:30PM - 4:30PM	Education Program	Zaida McCunney - MOPP	Zaida McCunney - MOPP		Salon I-III (Marriott)
6:00PM - 9:00PM	Social	Exhibitor Party	Exhibitor Party		

Time	Туре	Session	Event	Chair/Speaker	Location
8:00AM - 5:00PM	Workshop	GCE06 (Day 2)	GCE06 - Grid Computing Environments 2006	Gregor von Laszewski	Salon G (Marriott)
8:00AM - 5:00PM	Workshop	GPU Computing	General-Purpose GPU Computing: Practice and Experience	Bartlett S. H. (Scott) Michel	Salon I (Marriott)
8:00AM - 5:00PM	Workshop	HPC for Nano-science and Technology	2nd IEEE/ACM International Workshop on High Performance Computing for Nano-science and Technology	Jun Ni	Salon J (Marriott)
3:00AM - 5:00PM	Workshop	Ultra-Scale Visualization	Workshop on Ultra-Scale Visualization	James Ahrens, Hank Childs, John Clyne, Wes Bethel, Jian Huang, Scott Klasky, Kwan-Liu Ma, Kenneth Moreland, Michael Papka, Valerio Pascucci, Han-Wei Shen, Debroah Silver	Salon H (Marriott)
8:30AM - 5:00PM	Tutorial	MO1	Application Supercomputing and Multiscale Simulation Techniques	Alice E. Koniges, William Gropp, Ewing Lusk, David C. Eder	21
8:30AM - 5:00PM	Tutorial	M02	Parallel I/O in Practice	Robert Ross, Rajeev Thakur, William Loewe, Robert Latham	22
8:30AM - 5:00PM	Tutorial	M03	Reconfigurable Supercomputing	Tarek El-Ghazawi, Duncan Buell, Volodymyr Kindratenko, Kris Gaj	23
8:30AM - 5:00PM	Tutorial	MO4	Introduction to Grid Computing: The First Steps	David Gehrig, Mike Freemon, Jaime Frey	19
3:30AM - 5:00PM	Tutorial	M05	Application Performance on the Blue Gene Architecture	Lorna Smith, Mark Bull, Alan Gray, Joachim Hein	18
3:30AM - 5:00PM	Tutorial	M06	Issues for the Future of Supercomputing: Impact of Moore's Law and Architecture on Application Performance	Erik P. DeBenedictis, David E. Keyes, Peter M. Kogge	24
8:30AM - 5:00PM	Tutorial	M07	High Performance Data Transfer	Phillip Dykstra	25
8:30AM - 12:00PM	Tutorial	M08	Programming Using RapidMind on the Cell BE	Michael D. McCool, Bruce D'Amora	20
8:30AM - 12:00PM	Tutorial	M09	Program Analysis Tools for Massively Parallel Applications: How to Achieve Highest Performance	Andreas Knuepfer, Dieter Kranzlmueller, Bernd W. Mohr, Wolfgang E. Nagel	17
8:30AM - 12:00PM	Tutorial	M10	Realistic Visualization for Large-Scale Simulations	Voicu Popescu, Christoph Hoffmann	1-2
8:30AM - 9:30AM	Education Program	Plenary - TBD	Plenary - TBD		Salon I-III (Marriott)
9:30AM - 10:30AM	Education Program	Parallel - Barbara Bryan and Shodor - Part 1	Parallel - Barbara Bryan and Shodor - Part 1		Salon I-III (Marriott)
11:00AM - 12:00PM	Education Program	Parallel - Barbara Bryan and Shodor - Part 2	Parallel - Barbara Bryan and Shodor - Part 2		Salon I-III (Marriott)
12:00PM - 1:30PM	Education Program	Monday Lunch	Monday Lunch		Salon I-III (Marriott)
1:30PM - 5:00PM	Tutorial	M11	High-Performance Computing Methods for Computational Genomics	Srinivas Aluru, David Bader, Ananth Kalyanaraman	17
1:30PM - 5:00PM	Tutorial	M12	Overview of the Global Arrays Parallel Software Development Toolkit	Jarek Nieplocha, Bruce Palmer, Manojkumar Krishnan, P. Saddayappan	20

1:30PM - 5:00PM	Tutorial	M13	HPC meets IT	Sharan Kalwani	1-2
1:30PM - 2:30PM	Education Program	Teragrid - Part 1	Teragrid Part 1		Salon I-III (Marriott)
3:00PM - 4:30PM	Education Program	Teragrid - Part 2	Teragrid Part 2		Salon I-III (Marriott)
4:30PM - 5:30PM	Education Program	Individual Team Meetings	Individual Team Meetings		Salon I-III (Marriott)
7:00PM - 9:00PM	Social	Opening Gala	Opening Gala		TBD

Tuesday, Nov 14

Time	Туре	Session	Event	Chair/Speaker	Locatio
8:30AM - 10:00AM	Invited Speaker	Keynote	The Coming Merger of Biological and Non Biological Intelligence	Ray Kurzweil	Ballroom A-D
10:30AM - 11:00AM	Paper	Architecture	A Performance Comparison through Benchmarking and Modeling of Three Leading Supercomputers: Blue Gene/L, Red Storm, and Purple	Adolfy Hoisie, Gregory Johnson, Darren Kerbyson, Michael Lang, Scott Pakin	20-21
10:30AM - 11:15AM	Masterwork	Astrophysics	The Cosmic Simulator	Michael L. Norman	Ballroom A
10:30AM - 11:00AM	Paper, Best Student Paper Finalist	Biology	PBPI: A High Performance Implementation of Bayesian Phylogenetic Inference	Xizhou Feng, Kirk W. Cameron, Duncan A. Buell	22-23
10:30AM - 11:00AM	Exhibitor Forum	Grids and Network Applications	Addressing High Performance and Grid Challenges: Intel and CERN	Stephen Wheat, Bob Jones	1-2
10:30AM - 11:00AM	Paper	Imaging and Visual Analysis	Toward Real-Time, Image Guided Neurosurgery Using Distributed and Grid Computing	Nikos Chrisochoides, Andriy Fedorov, Andriy Kot, Neculai Archip, Peter Black, Olivier Clatz, Alexandra Golby, Ron Kikinis, Simon K. Warfield	18-19
10:30AM - 11:00AM	Exhibitor Forum	Innovative Technologies I	Unleash the Power of Stream Processors with a New Software Platform for Commodity Hardware	Matthew Papakipos	13
10:30AM - 12:00PM	Education Program	Little Fe - Education Booth	Little Fe - Education Booth		
10:30AM - 11:00AM	SC Global Showcase	SCGlobal - Parade of Nations	Opening Address	tbd tbd	14 - 16
10:30AM - 10:50AM	Storage Challenge Finalist	Storage Challenge	Trading Memory for Disk: Using Parallel Access to Fast InfiniBand Disk Arrays for Large Computational Chemistry Applications	Troy Benjegerdes, Brett Bode, Kyle Schochenmaier	24-25
10:50AM - 11:10AM	Storage Challenge Finalist	Storage Challenge	Scaling NFS through RDMA for Cluster Computing	Dov Cohen, Jeff Decker, Noah Fischer, Helen Y. Chen, Jackie H. Chen	24-25

11:00AM	SC Global Showcase	Advanced Medical Collaborative	Laboratory for Collaborative Diagnostics: Malaria TV	Peter Pennefather, Ian Crandall, West Suhanic	14 - 16
1:20AM		Technologies			
1:00AM	Paper	Architecture	The Potential Energy Efficiency of Vector Acceleration	Christophe Lemuet, Jack Sampson, Jean-Francois Collard, Norm Jouppi	20-21
1:30AM			of vector Acceleration	Jean-Francois Collard, Norm Jouppi	
1:00AM	Paper	Biology	Locality and Parallelism	Guangming Tan, Ninghui Sun,	22-23
1:30AM			Optimization for Dynamic Programming Algorithms in Bioinformatics	Shengzhong Feng	
1:00AM	Exhibitor Forum	Grids and Network Applications	Grid for Business Information: Extracting Maximum Value from	Ian Baird	1-2
1:30AM		Applications	Information		
1:00AM	Paper	Imaging and Visual	Large Image Correction and Warping in a Cluster	Vijay S Kumar, Benjamin Rutt, Tahsin Kurc, Umit Catalyurek, Sunny Chow,	18-19
1:30AM		Analysis	Environment	Stephan Lamont, Maryann Martone, Joel Saltz	
1:00AM	Exhibitor Forum	Innovative Technologies I	Using FPGAs in Supercomputers: Breaking with	Stefan Mohl	13
1:30AM		rechnologies r	Reconfigurable Computing		
1:10AM	Storage	Storage Challenge	HUSt: A Heterogeneous Unified	Lingfang Zeng, Ke Zhou, Zhan Shi, Dan	24-25
1:30AM	Challenge Finalist		Storage System for GIS Grid	Feng, Fang Wang, Changsheng Xie, Zhitang Li, Zhanwu Yu, Jianya Gong, Qiang Cao, Zhongying Niu, Lingjun Qin, Qun Liu, Yao Li	
1:15AM	Masterwork	Astrophysics	Understanding Our Cosmic Origin through Petascale	Anthony Mezzacappa	Ballroom A
2:00PM			Computing		~
1:20AM	SC Global Showcase	Advanced Medical Collaborative	Patient Safety Training using advanced medical and network	Stephen Small	14 - 16
1:40AM		Technologies	technology		
1:30AM	Paper, Best Student Paper	Architecture	The Design Space of Data-Parallel Memory Systems	Jung Ho Ahn, Mattan Erez, William J. Dally	20-21
2:00PM	Finalist		Data Faranci wernory Systems	Duly	
1:30AM	Paper	Biology	Computing Large Sparse Multivariate Optimization	Emre H Brookes, Rajendra V Boppana, Borries Demeler	22-23
2:00PM			Problems with an Application in Biophysics	bornes berneler	
1:30AM	Exhibitor Forum	Grids and Network	gridMathematica: Overview and	Dr. Roman E. Maeder	1-2
2:00PM		Applications	New Developments		
1:30AM	Paper	Imaging and Visual	Detecting Distributed Scans	Kurt Stockinger, E. Wes Bethel, Scott	18-19
2:00PM		Analysis	Using High-Performance Query- Driven Visualization	Campbell, Eli Dart, Kesheng Wu	
1:30AM	Exhibitor Forum	Innovative	Applying Scalable Acalis Field	Gail A Walters	13
2:00PM		Technologies I	Programmable Multi-Cores to HPC		
1:30AM	Storage	Storage Challenge	High Performance Data Analysis	Nobuhiko Katayama, Mitsuhisa Sato,	24-25
1:50AM	Challenge Finalist		for Particle Physics using The Gfarm File System	Taisuke Boku, Akira Ukawa, Shohei Nishida, Ichiro Adachi, Osamu Tatebe	
1:40AM	SC Global	Advanced Medical	Extending Interactivity in Grid	Kai Zhang, Wei-Li Liu	14 - 16
2:00PM	Showcase	Collaborative Technologies	Collaboration Tools for Long Distance Biomedical Training and Research		

12:00PM - 1:30PM	Education Program	Tuesday Lunch	Tuesday Lunch		Salon I-III (Marriott)
12:15PM - 1:15PM	BOF	Compframe	Compframe: Developement of Component Frameworks for High Performance Computing	Rob Armstrong	17
2:15PM 1:15PM	BOF	Dynamic Data	Dynamic Data-driven Applications Systems	Frederica Darema, Mario Rotea	Ballroom A
2:15PM 1:15PM	BOF	Heterogeneuos Optical	GHPN/GLIF: Delivery of Network Services across Heterogeneous Optical Domains	Dimitra Simeonidou, Gigi Karmous- Edwards	18-19
2:15PM 1:15PM	BOF	HPC Challenge	The 2006 HPC Challenge Awards	Jack Dongarra, Jeremy Kepner	Ballroom B-C
2:15PM 1:15PM	BOF	Open MPI	Open MPI Community Meeting	Jeff Squyres, Brian Barrett	22-23
2:15PM 1:15PM	BOF	OSCAR	OSCAR Community Meeting	Stephen Scott, Thomas Naughton, Geoffroy Vallee	13
2:15PM 1:15PM	BOF	Performance Tools	Performance Tools for Large-Scale Clusters	Zarka Cvetanovic	1-2
2:15PM 1:15PM	BOF	TORQUE	TORQUE Resource Manager	Garrick Staples	20-21
2:15PM 1:15PM	BOF	TotalView	TotalView Tips and Tricks	Chris Gottbrath, Peter Thompson	24-25
1:30PM - 2:00PM	HPC Analytics Challenge Finalist	Analytics Challenge	Remote Runtime Steering of Integrated Terascale Simulation and Visualization	Tiankai Tu, Hongfeng Yu, Jacobo Bielak, Omar Ghattas, Julio C. Lopez, Kwan-Liu Ma, David R. O'Hallaron, Leonardo Ramirez-Guzman, Nathan Stone, Ricardo Taborda-Rios, John Urbanic	24-25
:30PM - :15PM	Masterwork	Biology	The Blue Brain Project	Henry Markram	Ballroom A
: 30PM - 2:00PM	Exhibitor Forum	Ethernet Interconnects	Dynamic Ethernet Lightpaths: On-demand 10GbE and GbE Connections for Research Networks	Jeff Verrant	1-2
: 30PM - 2:00PM	Paper	Memory	Sequoia: Programming the Memory Hierarchy	Kayvon Fatahalian, Timothy J. Knight, Mike Houston, Mattan Erez, Daniel R. Horn, Larkhoon Leem, Ji Young Park, Manman Ren, Alex Aiken, William J. Dally, Pat Hanrahan	20-21
: 30PM - 2:00PM	Paper, Best Paper Finalist	Molecular Dynamics	Scalable Algorithms for Molecular Dynamics Simulations on Commodity Clusters	Kevin J. Bowers, Edmond Chow, Huafeng Xu, Ron O. Dror, Michael P. Eastwood, Brent A. Gregerson, John L. Klepeis, Istvan Kolossvary, Mark A. Moraes, Federico D. Sacerdoti, John K. Salmon, Yibing Shan, David E. Shaw	22-23
: 30PM - 2:00PM	Paper	Scalable Systems Software	A Software Based Approach for Providing Network Fault Tolerance in Clusters Using the uDAPL Interface: MPI Level Design and Performance Evaluation	Abhinav Vishnu, Prachi Gupta, Amith Mamidala, Dhabaleswar Panda	18-19
:30PM - 2:00PM	Exhibitor Forum	Storage Solutions I	Advances in RAID and HPC Storage Reliability	Garth Gibson	13
I:30PM -	SC Global	Technological Frontiers	ARCTIS: Augmented Reality	Uwe Woessner, N. N.	14 - 16

2:00PM - 2:30PM	HPC Analytics Challenge Finalist	Analytics Challenge	Computational Oral and Speech Science on E-science Infrastructures	Kazunori Nozaki, Masaaki Noro, Masashi Nakagawa, Susumu Date, Kenichi Baba, Steven Peltier, Toshihiro Kawaguchi, Toyokazu Akiyama, Hiroo Tamagawa, Yohsuke Tanaka, Toshihiro Kawaguchi, Shinji Shimojo	24-25
2:00PM - 2:30PM	Exhibitor Forum	Ethernet Interconnects	Low-Latency Ethernet: The Ubiquitous Datacenter Interconnect	Uri Cummings	1-2
2:00PM - 2:30PM	Paper	Memory	CellSs: A Programming Model for the Cell BE Architecture	Pieter Bellens, Josep M. Perez, Rosa M. Badia, Jesus Labarta	20-21
2:00PM - 2:30PM	Paper	Molecular Dynamics	Blue Matter: Approaching the Limits of Concurrency for Classical Molecular Dynamics	Blake G. Fitch, Aleksandr Rayshubskiy, Maria Eleftheriou, T.J. Christopher Ward, Mark E. Giampapa, Michael C. Pitman, Robert S. Germain	22-23
2:00PM - 2:30PM	Paper	Scalable Systems Software	Problem Diagnosis in Large-Scale Computing Environments	Alexander V. Mirgorodskiy, Naoya Maruyama, Barton P. Miller	18-19
2:00PM - 2:30PM	Exhibitor Forum	Storage Solutions I	Paradigm Shift in the Data Storage Industry	Sujal M Patel	13
2:00PM - 2:30PM	SC Global Showcase	Technological Frontiers in Global Collaboration	Semantically-Enhanced Collaborative Engineering and Design Services	Michael Murphy, Thomas Fischer	14 - 16
2:15PM - 3:00PM	Masterwork	Biology	Elucidating Laws of the Unruly Jungle with Computational Approaches to Complex Ecological Networks	Neo Martinez	Ballroom A
2:30PM - 3:00PM	HPC Analytics Challenge Finalist	Analytics Challenge	High-throughput Visual Analytics Biological Sciences: Turning Data into Knowledge	Christopher S Oehmen, Lee Ann McCue, Joshua N. Adkins, Katrina Waters, Tim Carlson, William R. Cannon, Bobbie-Jo Webb-Robertson, Douglas Baxter, Elena Peterson, Mudita Singhal, Anuj Shah, Kyle Klicker	24-25
2:30PM - 3:00PM	Exhibitor Forum	Ethernet Interconnects	iWARP Ethernet: Key to Driving Ethernet into High Performance Environments	Charles R (Rick) Maule	1-2
2:30PM - 3:00PM	Paper	Memory	A Memory Model for Scientific Algorithms on Graphics Processors	Naga Govindaraju, Scott Larsen, Jim Gray, Dinesh Manocha	20-21
2:30PM - 3:00PM	Paper	Molecular Dynamics	Preliminary Investigation of Advanced Electrostatics in Molecular Dynamics on Reconfigurable Computers	Ronald Scrofano, Viktor K. Prasanna	22-23
2:30PM - 3:00PM	Paper, Best Student Paper Finalist	Scalable Systems Software	From Mesh Generation to Scientific Visualization: An End-to-End Approach to Parallel Supercomputing	Tiankai Tu, Hongfeng Yu, Leonardo Ramirez-Guzman, Jacobo Bielak, Omar Ghattas, Kwan-Liu Ma, David R. O'Hallaron	18-19
2:30PM - 3:00PM	Exhibitor Forum	Storage Solutions I	Future of Storage and Commodity Clusters	Dave Fellinger	13
2:30PM - 3:00PM	SC Global Showcase	Technological Frontiers in Global Collaboration	Sharing Interactive High-Resolution Media for Advanced Collaboration	JongWon Kim	14 - 16
3:30PM - 3:40PM	Bandwidth Challenge Finalist	Bandwidth Challenge	Secure File Sharing	Naoyuki Fujita, Hirofumi Ohkawa	24-25
8:30PM - 8:50PM	SC Global Showcase	Building Communities on the Grid	AccessGrid in the Canadian HPC scene	Brian Corrie	14 - 16
3:30PM - 1:15PM	Masterwork	Combustion	Terascale Direct Numerical Simulations of Turbulent Combustion	Jacqueline Chen	Ballroom A
3:30PM - 4:00PM	Exhibitor Forum	High Performance Interconnects	High Performance Networks for the Future	Duncan Roweth, Moray McLaren	1-2

3:30PM - 4:00PM	Paper, Best Student Paper Finalist	Interconnect Routing and Scheduling	Adaptive Routing in High-Radix Clos Networks	John Kim, William Dally, Dennis Abts	20-21
3:30PM - 4:00PM	Paper	Particles and Contiuum	Nested OpenMP for Efficient Computation of 3D Critical Points in Multi-Block CFD Datasets	Andreas Gerndt, Samuel Sarholz, Marc Wolter, Dieter an Mey, Christian Bischof, Torsten Kuhlen	22-23
3:30PM - 5:00PM	Scatter/Gather	Scatter / Gather I	Scatter/Gather	TBD TBD	18-19
3:30PM - 4:00PM	Exhibitor Forum	Storage Solutions II	Global Data Sharing: Addressing the Challenge of Data Locality	Wayne Karpoff	13
3:40PM - 3:50PM	Bandwidth Challenge Finalist	Bandwidth Challenge	High Speed Data Gathering, Distribution and Analysis for Physics Discoveries at the Large Hadron Collider	Julian J Bunn, Harvey Newman, Shawn McKee, David G Foster, Richard Cavanaugh, Richard Hughes-Jones	24-25
3:50PM - 4:00PM	Bandwidth Challenge Finalist	Bandwidth Challenge	Transporting Sloan Digital Sky Survey Data using SECTOR	Robert Grossman, Yunhong Gu, Michal Sabala, Shirley Connelly, David Hanley, Joe Mambretti, Alex Szalay, Ani Thakar, Jan vandenBerg, Alainna Wonders	24-25
3:50PM - 4:30PM	SC Global Showcase	Building Communities on the Grid	Broadening Participation on the Grid	Rollin W.I. Guyden, Stephenie McLean, Graig A. Gilham, Garrett Love	14 - 16
4:00PM - 4:10PM	Bandwidth Challenge Finalist	Bandwidth Challenge	High Throughput Feature- matching Analysis of Biological Spectral Data	Chris Oehmen, Douglas Baxter, Ryan Mooney, Shaun O'Leary, Tim Carlson	24-25
4:00PM - 4:30PM	Exhibitor Forum	High Performance Interconnects	Network Topologies for High Performance Computing: Ethernet, InfiniBand and Storage	Nikhil Kelshikar	1-2
4:00PM - 4:30PM	Paper	Interconnect Routing and Scheduling	A Near-Optimal Real-time Hardware Scheduler for Large Cardinality Crossbar Switches	Raymond R. Hoare, Zhu Ding, Alex K. Jones	20-21
4:00PM - 4:30PM	Paper	Particles and Contiuum	Modeling Pulse Propagation and Scattering in a Dispersive Medium: Performance of MPI/OpenMP Hybrid Code	Robert O Rosenberg, Guy Norton, Jorge C Novarini, Wendell Anderson, Marco Lanzagorta	22-23
4:00PM - 4:30PM	Exhibitor Forum	Storage Solutions II	Accelerating Data for Compute Clusters and Grids	Benoit Marchand	13
4:10PM - 4:20PM	Bandwidth Challenge Finalist	Bandwidth Challenge	All in a Day's Work: Advancing Data-Intensive Research with the Data Capacitor	Stephen C Simms, Matt Davy, Bret Hammond, Matt Link, Craig Stewart, Randall Bramley, Beth Plale, Dennis Gannon, Mu-Hyun Baik, Scott Teige, John Huffman, Rick McMullen, Doug Balog, Greg Pike	24-25
4:15PM - 5:00PM	Masterwork	Combustion	High Performance Computing for Combustion Applications	Gabriel Staffelbach	Ballroom A
4:20PM - 4:30PM	Bandwidth Challenge Finalist	Bandwidth Challenge	Streaming Uncompressed 4K Scientific Media	Laura Arns, Ryan Pedela, Michael Shuey, Preston Smith, Jenett Tillotson	24-25
4:30PM - 4:40PM	Bandwidth Challenge Finalist	Bandwidth Challenge	VFER: High-performance Transport in User Space	Stanislav Shalunov, Ivan Beschastnikh	24-25
4:30PM - 5:00PM	SC Global Showcase	Building Communities on the Grid	New Voices and New Visions for Engaging Native American Students in Computer Science	Glenn Bresnahan, Arthur Maccabe, Maria Williams, Arlan Sando, Erik Brisson, Jennifer Teig von Hoffman	14 - 16
4:30PM - 5:00PM	Exhibitor Forum	High Performance Interconnects	Enabling Next Generation Supercomputing Clusters	Michael Vrazel	1-2
4:30PM - 5:00PM	Paper	Interconnect Routing and Scheduling	Level-Wise Scheduling Algorithm for Fat Tree Interconnection Networks	Zhu Ding, Raymond R. Hoare, Alex K. Jones, Rami Melhem	20-21

4:30PM - 5:00PM	Paper	Particles and Contiuum	Performance Modeling and Optimization of a High Energy Colliding Beam Simulation Code	Hongzhang Shan, Erich Strohmaier, Ji Qiang, David H. Bailey, Kathy Yelick	22-23
4:30PM - 5:00PM	Exhibitor Forum	Storage Solutions II	Analyzing All the Data All the Time	Bill Blake	13
4:40PM - 4:50PM	Bandwidth Challenge Finalist	Bandwidth Challenge	Phoebus	Guy Almes, Martin Swany, Aaron Brown	24-25
5:15PM - 7:15PM	ACM SRC Poster, Poster	ACM Student Research Competition Reception	A Middleware Approach in Facilitating Web-Mobile-Desktop (WMD) Application Communication in Distributed Systems	Long Tang	Ballroom Corridor
5:15PM - 7:15PM	ACM SRC Poster, Poster	ACM Student Research Competition Reception	HPCBugBase: An Experience Base for HPC Defects	Taiga Nakamura	Ballroom Corridor
5:15PM - 7:15PM	ACM SRC Poster, Poster	ACM Student Research Competition Reception	Employing Peer-to-Peer Services for Robust Grid Computing	Jik-Soo Kim	Ballroom Corridor
5:15PM - 7:15PM	ACM SRC Poster, Poster	ACM Student Research Competition Reception	Statistical Inference for Efficient Microarchitectural and Application Analysis	Benjamin C Lee	Ballroom Corridor
5:15PM - 7:15PM	ACM SRC Poster, Poster	ACM Student Research Competition Reception	CCA-LISI: On Designing A Common Component Architecture Parallel Sparse Linear Solver Interface	Fang Liu	Ballroom Corridor
5:15PM - 7:15PM	ACM SRC Poster, Poster	ACM Student Research Competition Reception	Adaptive Coarsening: Simple, Effective Floating-Point Compression	Christopher R Schroeder	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	Pairwise Alignments on the Cell Processor	Vipin Sachdeva, Mike Kistler, Evan Speight	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	IANUS: Scientific Computing on an FPGA-based Architecture	Filippo Mantovani	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	The Finite-Volume Dynamical Core on the Cubed-Sphere	William Putman	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	Optimizing EUDOC for the IBM eServer Blue Gene Supercomputer	Yuan-Ping Pang, Brent Swartz, Brian Smith, Tim Mullins, Amanda Peters, Roy Musselman	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	Network Performance Impact of a Lightweight Linux for Cray XT3 Compute Nodes	Trammell Hudson, Ron Brightwell	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	Patterns in Parallel Programs: Toward High-level Understanding of Large-Scale Traces	Bernhard Aichinger, Martin Schulz, Dieter Kranzlmueller, Thomas Köckerbauer, Bronis R. de Supinski	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	Reconfigurable Accelerator for Quantum Monte Carlo Simulations in N-body Systems	Akila Gothandaraman, G. Lee Warren, Gregory D. Peterson, Robert J. Harrison	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	Application Controlled Parallel Asynchronous IO	Shujia Zhou, Amidu Oloso, Megan Damon, Tom Clune	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	Alef Parallel SAT Solver for HPC Hardware	James R Ezick, Samuel B Luckenbill, Donald Nguyen, Peter Szilagyi, John Starks, Richard A Lethin	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	Bringing Instruments into the Grid	Francesco Lelli	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	Performance Evaluation of GPUs Using the RapidMind Development Platform	Michael D. McCool, Kevin Wadleigh, Brent Henderson, Hsin-Ying Lin	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	Semantics for Hybrid Networks Using the Network Description Language	Jeroen van der Ham, Paola Grosso, Freek Dijkstra, Cees TAM de Laat	Ballroom Corridor

5:15PM - 7:15PM	Poster	Poster Reception	Cosmological Simulations on Supercomputers	Filippo Gioachin, Celso L. Mendes, Laxmikant V. Kale, Thomas R. Quinn	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	The SAGA C++ Reference Implementation: A Milestone toward New High-Level Grid Applications	Hartmut Kaiser, Andre Merzky, Stephan Hirmer, Gabrielle Allen, Edward Seidel	Ballroom Corridor
::15PM - ::15PM	Poster	Poster Reception	Designing a Collaborative Cyberinfrastructure for Event- driven Coastal Modeling	Philip Bogden, Gabrielle Allen, Gerry Creager, Sara Graves, Rick Luettich, Lavanya Ramakrishnan	Ballroom Corridor
::15PM - /:15PM	Poster	Poster Reception	Parallel Performance Wizard: A Performance Analysis Tool for Partitioned Global- Address-Space Programming Models	Adam Leko, Hung-Hsun Su, Dan Bonachea, Bryan Golden, Max Billingsley, Alan George	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	Visualization of Storage Controller Performance Data	Amit P Sawant, Matti Vanninen	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	N-Body Simulation on GPUs	Erich Elsen, Mike Houston, V. Vishal, Eric Darve, Pat Hanrahan, Vijay Pande	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	Portable Performance Optimizations based on a Performance History of the Fusion Microturbulence Code GYRO	Mark R Fahey	Ballroom Corridor
i:15PM - I:15PM	Poster	Poster Reception	Zero-Force MPI: Toward Tractable Toolkits for High Performance Computing	Magdalena Slawinska, Dawid Kurzyniec, Jaroslaw Slawinski, Vaidy Sunderam	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	Charm++ Simplifies Coding for the Cell Processor	David M. Kunzman, Gengbin Zheng, Eric Bohm, James C. Phillips, Laxmikant V. Kale	Ballroom Corridor
:15PM - :15PM	Poster	Poster Reception	A Meta-Provenance Service to Infer Context from Provenance Data of Distributed Entities	Nithya N Vijayakumar, Beth Plale	Ballroom Corridor
::15PM - ::15PM	Poster	Poster Reception	Component Architectures for Quantum Chemistry: Forging New Capabilities and Insights	Joseph P Kenny, Curtis L Janssen, Ida M B Nielsen, Manojkumar Krishnan, Vidhya Gurumoorthi, Edward F Valeev, Theresa L Windus	Ballroom Corridor
i:15PM - I:15PM	Poster	Poster Reception	Energy/Performance Modeling for Collective Communication in 3-D Torus Cluster Networks	S. Conner, G. M. Link, S. Tobita, M. J. Irwin, P. Raghavan	Ballroom Corridor
:15PM - :15PM	Poster	Poster Reception	Accelerating Web Protocols Using RDMA	Dennis Dalessandro, Pete Wyckoff	Ballroom Corridor
:15PM - :15PM	Poster	Poster Reception	Scalable Software Infrastructure Project	Akira Nishida, Hisashi Kotakemori, Tamito Kajiyama, Akira Nukada	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	ASTEX: A Hot Path Based Thread Extractor for Distributed Memory System on a Chip	Eric Petit, Francois Bodin, Guillaume Papaure, Florence Dru	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	A Study of Process Arrival Patterns for MPI Collective Operations	Ahmad Faraj, Pitch Patarasuk, Xin Yuan	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	Optimized Collectives for PGAS Languages with One-Sided Communication	Dan Bonachea, Paul Hargrove, Rajesh Nishtala, Michael Welcome, Katherine Yelick	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	Scalable Compression and Replay of Communication Traces in Massively Parallel Environments	Michael Noeth, Jaydeep Marathe, Frank Mueller, Martin Schulz, Bronis de Supinski	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	Collective Operations using Low Level Interfaces on BG/L	Aleksandr Rayshubskiy, Blake Fitch	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	Toward a Power Efficient Computer Architecture for Barnes-Hut N-Body Simulations	Konrad Malkowski, Padma Raghavan, Mary Jane Irwin	Ballroom Corridor

5:15PM - 7:15PM	Poster	Poster Reception	Fast Binary Serialization for Grid Systems with XBS	Tharaka Devadithya, Kenneth Chiu	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	Data-Driven Time Parallelization	Lei Ji, Yanan Yu, Namas Chandra, Hugh Nymeyer, Ashok Srinivasan	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	Improving the Performance of Parallel Backprojection on a Reconfigurable Supercomputer	Ben Cordes, Miriam Leeser, Eric Miller, Richard Linderman	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	Harnessing Grid Resources to Enable the Dynamic Analysis of Large Astronomy Datasets	Ioan Raicu, Ian Foster, Alex Szalay	Ballroom Corridor
:15PM - :15PM	Poster	Poster Reception	Utilizing Grid Computing Technologies for Advanced Reservoir Studies	Zhou Lei, Gabrielle Allen, Dayong Huang, Hartmut Kaiser, Xin Li, Chris White	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	Human Arterial Tree Simulation on TeraGrid	Leopold Grinberg, Suchuan Dong, James Noble, Alexander Yakhot, George Karniadakis, Nicholas Karonis	Ballroom Corridor
: 15PM - : 15PM	Poster	Poster Reception	Implementing Algorithms on FPGAs Using High-Level Languages and Low-Level Libraries	Robin J Bruce, Richard Chamberlain, Malachy Devlin, Stephen Marshall	Ballroom Corridor
: 15PM - : 15PM	Poster	Poster Reception	The Computer Failure Data Repository (CFDR): Collecting, Sharing and Analyzing Failure Data	Bianca Schroeder, Garth Gibson	Ballroom Corridor
:15PM - :15PM	Poster	Poster Reception	Improving Fault Resilience of High Performance Applications	Yawei Li, Zhiling Lan	Ballroom Corridor
:15PM - :15PM	Poster	Poster Reception	Digital Sherpa	Ronald C. Price, Victor E. Bazterra, Wayne Bradford, Julio C. Facelli	Ballroom Corridor
::15PM - ::15PM	Poster	Poster Reception	The Structural Simulation Toolkit: Exploring Novel Architectures	Arun F Rodrigues, Richard C Murphy, Peter Kogge, Keith D Underwood	Ballroom Corridor
:15PM - :15PM	Poster	Poster Reception	DejaVu: Transparent User-Level Checkpointing, Migration and Recovery for Distributed Systems	Joseph F. Ruscio, Michael A. Heffner, Srinidhi Varadarajan	Ballroom Corridor
:15PM - :15PM	Poster	Poster Reception	Asynchronous Programming with Tarragon	Pietro Cicotti, Scott B. Baden	Ballroom Corridor
:15PM - :15PM	Poster	Poster Reception	Parallel Massive Scale-Free Graph Generators	Andy Yoo, Keith Henderson	Ballroom Corridor
::15PM - /:15PM	Poster	Poster Reception	NCSA Environmental Cyberinfrastructure Demonstration Project: Creating Cyberenvironments for Environmental Engineering and Hydrological Science Communities	Barbara Minsker, Jim Myers, Mark Marikos, Tim Wentling, Steve Downey, Yong Liu, Peter Bajcsy, Rob Kooper, Luigi Marini, Noshir Contractor, Harold D. Green, Joe Futrelle	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	Targeting Multi-Core Architectures for Linear Algebra Applications	Alfredo Buttari, jakub Kurzak, Jack Dongarra	Ballroom Corridor
:15PM - :15PM	Poster	Poster Reception	Powerful New Research Computing System Available via the TeraGrid	D Scott McCaulay, Matt R Link, George W Turner, David Y Hancock, Maria Morris, Craig A Stewart	Ballroom Corridor
: 15PM - : 15PM	Poster	Poster Reception	Engineering the 100 Terabyte Turbulence Database (or How To Track Particles at Home)	Eric A Perlman, Randal Burns	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	High Resolution, High Throughput Protein Structure Prediction using IBM Blue Gene Supercomputers: Predicting CASP Targets in Record Time	Ross C Walker, Srivatsan Raman, David Baker	Ballroom Corridor

5:15PM - 7:15PM	Poster	Poster Reception	Optimized Large File Access in Storage Clusters using common TCP/IP-based File Transfer Protocols	Stijn Eeckhaut, Michiel Mertens, Stijn De Smet, Brecht Vermeulen, Luc Andries, Mira Peltomaki	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	To Bid or Not To Bid: A Hybrid Market-Based Resource Allocation Framework	Elizeu Santos-Neto, Kate Keahey	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	SimBA: A Discrete Event Simulator for Performance Prediction of Volunteer Computing Projects	David A. Flores, Trilce Estrada, Michela Taufer, Patricia J. Teller, Andre Kerstens	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	A Reconfigurable Supercomputing Library for Accelerated Parallel Lagged- Fibonacci Pseudorandom Number Generation	Yu Bi, Gregory D Peterson, G. Lee Warren, Robert J. Harrison	Ballroom Corridor
5:15PM - 7:15PM	Poster	Poster Reception	Parallel I/O Advancements in Air Quality Modeling Systems	Todd Kordenbrock, Ron Oldfield, Jeffrey Young	Ballroom Corridor
5:30PM - 7:00PM	BOF	Cell BE	Cell BE Software Programming and Toolkits	Michael P Perrone, Tanaz Sowadagar	Ballroom A
5:30PM - 7:00PM	BOF	Global Automotive	HPC's Role in Global Automotive Design	Christian Tanasescu, Sharan Kalwani	1-2
5:30PM - 7:00PM	BOF	InfiniBand Routing	InfiniBand Routing and Switching: Improving Fabric Scalability, Distance, and Fault Isolation	Shawn Hansen, Ted Wilcox, Dan Stanzione	13
5:30PM - 7:00PM	BOF	OpenMP	OpenMP	Sanjiv Shah, Mark Bull	18-19
5:30PM - 7:00PM	BOF	Open SpeedShop	Open SpeedShop: Open Source Performance Analysis for Linux Clusters	Martin Schulz, Jim Galarowicz, William Hachfeld	20-21
5:30PM - 7:00PM	BOF	Pathway to Petascale	The Pathway to Petascale Science	Thom Dunning, Francine Berman, John R. Boisseau	24-25
5:30PM - 7:00PM	BOF	Science Gateway	Science Gateway, Portal and Other Community Interfaces to High End Resources	Nancy R Wilkins-Diehr, Thomas Soddemann	22-23
5:30PM - 7:00PM	BOF	SPEC HPG	SPEC HPG Benchmarks	Kumaran Kalyanasundaram	17
5:30PM - 7:00PM	BOF	TOP500	TOP500 Supercomputer	Erich Strohmaier	Ballroom B-C

Wednesday, Nov 15

Time	Туре	Session	Event	Chair/Speaker	Location
8:30AM - 9:15AM	Invited Speaker, Awards	Cray and Fernbach Awards Lectures	Seymour Cray Award Lecture	Tadashi Watanabe	Ballroom B-C
9:15AM - 10:00AM	Invited Speaker, Awards	Cray and Fernbach Awards Lectures	Sidney Fernbach Award Lecture: Solving Einstein's Equations through Computational Science	Ed Seidel	Ballroom B-C
10:30AM - 11:00AM	ACM SRC Poster, Poster	ACM Student Research Competition Finalists	Employing Peer-to-Peer Services for Robust Grid Computing	Jik-Soo Kim	24-25
10:30AM - 11:00AM	Paper	Data Management and Query	Hypergraph Partitioning for Automatic Memory Hierarchy Management	Sriram Krishnamoorthy, Umit Catalyurek, Jarek Nieplocha, Atanas Rountev, P Sadayappan	22-23

0:30AM	Masterwork	Fusion	Kinetic Simulation of Fusion Plasmas	W.W. Lee	Ballroom A
1:15AM					
0:30AM	Gordon Bell Finalist	Gordon Bell Finalists I	Large-Scale Electronic Structure Calculations of High-Z Metals on	Francois Gygi, Erik W. Draeger, Martin Schulz, Bronis R. De Supinski, John A.	18-19
1:00AM			the BlueGene/L Platform	Gunnels, Vernon Austel, James C. Sexton, Franz Franchetti, Stefan Kral, Christoph Ueberhuber, Juergen Lorenz	
D:30AM	Paper	Grid Allocation And Reservation	Improving Grid Resource Allocation via Integrated	Yang-Suk Kee, Ken Yocum, Andrew A. Chien, Henri Casanova	20-21
1:00AM			Selection and Binding		
): 30AM	Exhibitor Forum	InfiniBand Interconnects	The Road to PetaFLOP Clusters	Yaron Haviv	1-2
1:00AM					
): 30AM	Exhibitor Forum	Roadmaps and Visions	Hitachi's Approach to High	Satomi Hasegawa	13
1:00AM		•	Perfomance Computing		
D: 30AM	SC Global	Training: Archive and	AGVCR - AccessGrid Video	Derek Piper, Derek Piper	14 - 16
I:15AM	Showcase	Retrieval of Collaborative Productions	'Cassette' Recorder		
1:00AM	ACM SRC Poster,	ACM Student Research	Statistical Inference for Efficient Microarchitectural and	Benjamin C Lee	24-25
1:30AM	Poster	Competition Finalists	Application Analysis		
1:00AM	Paper	Data Management and	Multiple Range Query	Beomseok Nam, Henrique Andrade, Alan	22-23
1:30AM		Query	Optimization with Distributed Cache Indexing	Sussman	
1:00AM	Gordon Bell	Gordon Bell Finalists I	Large Scale Drop Impact	Hiroshi Akiba, Tomonobu Ohyama,	18-19
1:30AM	Finalist		Analysis of Mobile Phone Using ADVC on Blue Gene/L	Yoshinori Shibata, Kiyoshi Yuyama, Yoshikazu Katai, Ryuichi Takeuchi, Takeshi Hoshino, Shinobu Yoshimura, Hirohisa Noguchi, Manish Gupta, John Gunnels, Vernon Austel, Yogish Sabharwal, Rahul Garg, Shoji Kato, Takashi Kawakami, Satoru Todokoro, Junko Ikeda	
1:00AM	Paper	Grid Allocation And Reservation	Toward a Doctrine of Containtment: Grid Hosting	Lavanya Ramakrishnan, Laura Grit, Adriana Iamnitchi, David Irwin, Aydan	20-21
1:30AM			with Adaptive Resource Control	Yumerefendi, Jeff Chase	
1:00AM	Exhibitor Forum	InfiniBand Interconnects	Application Acceleration through MPI Overlap	Michael Kagan	1-2
1:30AM					
1:00AM	Exhibitor Forum	Roadmaps and Visions	Cray: Creating a Path to Adaptive Supercomputing	Steve Scott	13
1:30AM					
1:15AM	Masterwork	Fusion	High Performance Computing in Magnetic Fusion Energy	Donald B. Batchelor	Ballroom A
2:00PM			Research		~
1:15AM	SC Global	Training: Archive and	Memetic: An AG Integrated	Andrew Rowley	14 - 16
2:00PM	Showcase	Retrieval of Collaborative Productions	Meeting Recorder		
:30AM	ACM SRC Poster, Poster	ACM Student Research Competition Finalists	HPCBugBase: An Experience Base for HPC Defects	Taiga Nakamura	24-25

11:30AM - 12:00PM	Paper, Best Student Paper Finalist	Data Management and Query	Estimating Query Result Sizes for Proxy Caching in Scientific Database Federations	Tanu Malik, Randal Burns, Nitesh V Chawla, Alex Szalay	22-23
1:30AM 2:00PM	Gordon Bell Finalist	Gordon Bell Finalists I	High-Performance Computing for Exact Numerical Approaches to Quantum Many-Body Problems on the Earth Simulator	Susumu Yamada, Toshiyuki Imamura, Takuma Kano, Masahiko Machida	18-19
1:30AM 2:00PM	Paper	Grid Allocation And Reservation	Grid Capacity Planning with Negotiation-based Advance Reservation for Optimized QoS	Mumtaz Siddiqui, Alex Villazon, Thomas Fahringer	20-21
1:30AM 2:00PM	Exhibitor Forum	InfiniBand Interconnects	Building Highly Scalable and Reliable InfiniBand Clusters	Lloyd Dickman	1-2
1:30AM 2:00PM	Exhibitor Forum	Roadmaps and Visions I	NEC High Performance Computing Solutions	Joerg Stadler	13
2:15PM 1:15PM	BOF	Approaching Petascale	Approaching Petascale Computing	Grant Miller	22-23
2:15PM 1:15PM	BOF	CyberBridges	CyberBridges: A Model Collaboration Infrastructure for e-Science	Heidi Alvarez, Julio Ibarra	17
2:15PM 1:15PM	BOF	Cyberinfrax & Education	Cyberinfrastructure and Education	John Connolly, Elaine Landwehr	1-2
2:15PM 1:15PM	BOF	Extreme Applications	Extreme Application Scalability	Wilfried Oed	13
2:15PM 1:15PM	BOF	Fabric-Agnostic RDMA	Fabric-Agnostic RDMA with OpenFabrics Enterprise Distribution: Promises, Challenges, and Future Direction	Shawn Hansen, Sujal Das	24-25
2:15PM 1:15PM	BOF	Open Trace	The Open Trace Format (OTF) and Open Tracing for HPC	Allen D. Malony, Wolfgang E. Nagel	18-19
2:15PM 1:15PM	BOF	Programming FPGAs	Programming FPGAs: Challenges and Successes	Mark I Parsons, Francis W Wray	Ballroom A
2:15PM 1:15PM	BOF	Rocks Clusters	Rocks Clusters	Steve Jones, Greg Bruno, Tim McIntire	20-21
2:15PM 1:15PM	BOF	UPC	UPC: Unified Parallel C	Tarek El-Ghazawi, Lauren Smith	Ballroom B-C
: 30PM - : 30PM	SC Global Showcase	Collaborative Performing Arts	InterPlay: Dancing on the Banks of Packet Creek	Jimmy Miklavcic	14 - 16
: 30PM - :00PM	Gordon Bell Finalist	Gordon Bell Finalists II	\$158/GFLOP Astrophysical N-Body Simulation with a Reconfigurable Add-in Card and a Hierarchical Tree Algorithm	Atsushi Kawai, Toshiyuki Fukushige	18-19
: 30PM - : 00PM	Paper, Best Paper Finalist	Grid Applications	Parallel Genomic Sequence- Searching on an Ad-Hoc Grid: Experiences, Lessons Learned, and Implications	Mark Gardner, Wu-chun Feng, Jeremy Archuleta, Heshan Lin, Xiaosong Ma	20-21
: 30PM - : 15PM	Masterwork	High Energy Physics	Search for Higgs Boson Diphoton Decay with CMS at LHC	Harvey Newman	Ballroom A

1:30PM - 3:00PM	Panel	High Productivity	High Productivity Computing and Usable Petascale Systems	Jeremy Kepner, Bob Lucas, Mootaz Elnozahy, Jim Mitchell, Steve Scott	24-25
1:30PM - 2:00PM	Paper	MPI and Communication	High-Performance and Scalable MPI over InfiniBand with Reduced Memory Usage: An In-Depth Performance Analysis	Sayantan Sur, Matthew J. Koop, Dhabaleswar K. Panda	22-23
1:30PM - 2:00PM	Exhibitor Forum	Roadmaps and Visions II	Innovation beyond Imagination: The Road to PetaFLOPS Computing	Anthony O Befi	13
1:30PM - 2:00PM	Exhibitor Forum	Software Tools I	Fortran Tools	Walt Brainerd	1-2
2:00PM - 2:30PM	Gordon Bell Finalist	Gordon Bell Finalists II	A 55 TFLOPS Simulation of Amyloid-forming Peptides from Yeast Prion Sup35 with the Special-purpose Computer System MDGRAPE-3	Tetsu Narumi, Yousuke Ohno, Noriaki Okimoto, Takahiro Koishi, Atsushi Suenaga, Noriyuki Futatsugi, Ryoko Yanai, Ryutaro Himeno, Shigenori Fujikawa, Mitsuru Ikei, Makoto Taiji	18-19
2:00PM - 2:30PM	Paper	Grid Applications	Sustainable Adaptive Grid Supercomputing: Multiscale Simulation of Semiconductor Processing across the Pacific	Hiroshi Takemiya, Yoshio Tanaka, Satoshi Sekiguchi, Shuji Ogata, Rajiv K. Kalia, Aiichiro Nakano, Priya Vashishta	20-21
2:00PM - 2:30PM	Paper	MPI and Communication	Adaptive, Transparent Frequency, and Voltage Scaling of Communication Phases in MPI Programs	Min Yeol Lim, Vincent W. Freeh, David K. Lowenthal	22-23
2:00PM - 2:30PM	Exhibitor Forum	Roadmaps and Visions	Fujitsu's Vision for High Performance Computing	Motoi Okuda	13
2:00PM - 2:30PM	Exhibitor Forum	Software Tools I	AMD versus Intel: The Compiler as Referee	Michael Wolfe	1-2
2:15PM - 3:00PM	Masterwork	High Energy Physics	25 Years of Accelerator Modeling	Robert D. Ryne	Ballroom A
2:30PM - 3:00PM	SC Global Showcase	Collaborative Performing Arts	Performance and Presentation Production Elements	Beth Miklavcic, Jimmy Miklavcic	14 - 16
2:30PM - 3:00PM	Gordon Bell Finalist	Gordon Bell Finalists II	The BlueGene/L Supercomputer and Quantum Chromodynamics	Pavlos M. Vranas, Gyan Bhanot, Matthias Blumrich, Dong Chen, Alan Gara, Philip Heidelberger, Valentina Salapura, James C. Sexton	18-19
2:30PM - 3:00PM	Paper	Grid Applications	High-Performance Dynamic Graphics Streaming for Scalable Adaptive Graphics Environment	Byungil Jeong, Luc Renambot, Ratko Jagodic, Rajvikram Singh, Julieta Aguilera, Andrew Johnson, Jason Leigh	20-21
2:30PM - 3:00PM	Paper, Best Paper Finalist	MPI and Communication	Software Routing and Aggregation of Messages to Optimize the Performance of the HPCC Randomaccess Benchmark	Rahul Garg, Yogish Sabharwal	22-23
2:30PM - 3:00PM	Exhibitor Forum	Roadmaps and Visions II	Getting Ahead, Staying Ahead: Modular Sun x64 Servers for HPC	Bjorn Andersson	13
2:30PM - 3:00PM	Exhibitor Forum	Software Tools I	Distributed IMSL with 3rd Party Solutions in C, Java and .NET	Edward Stewart	1-2
3:30PM - 4:00PM	Exhibitor Forum	Innovative Technologies II	So What's Innovative and Exotic About Star-P for MATLAB and Other Clients?	Alan Edelman	13
3:30PM - 4:15PM	Invited Speaker	Invited Speakers I	Navy and Marine Corps High Performance Computing	Delores Etter	Ballroom B-C
3:30PM - 4:00PM	Exhibitor Forum	Software Tools II	Running a Top-500 Benchmark on A Windows Compute Cluster Server Cluster	Frank Chism, Jeremy Enos	1-2
4:00PM - 4:30PM	Exhibitor Forum	Innovative Technologies II	Acceleration Technologies: Understanding the Differences	John L. Gustafson	13

4:00PM - 4:30PM	Exhibitor Forum	Software Tools II	Novel Techniques for Debugging and Optimizing Parallel Applications	Michael Rudgyard	1-2
4:15PM - 5:00PM	Invited Speaker	Invited Speakers I	Open Source Software: A Powerful Model for Inspiring Imagination	Matthew J. Szulik	Ballroom B-C
4:30PM - 5:00PM	Exhibitor Forum	Innovative Technologies II	Multi-Paradigm Computing	Josh Harr	13
4:30PM - 5:00PM	Exhibitor Forum	Software Tools II	Debugging Code Written for Multi-Core Chip Architectures	Chris Gottbrath	1-2
5:30PM - 7:00PM	BOF	Altair's PBS	Altair's PBS Professional Update	Michael Humphrey	18-19
5:30PM - 7:00PM	BOF	Best Practices	Best Practices in Cluster Management	Rick Friedman	24-25
5:30PM - 7:00PM	BOF	Cray XT3 Users	Cray XT3 Users	Neil Pundit, Rolf Riesen	Ballroom A
5:30PM - 7:00PM	BOF	Evaluating Petascale	Evaluating Petascale Infrastructure Systems: Benchmarks, Models, and Applications.	Robert J Fowler, Allan Snavely, Daniel A Reed	17
5:30PM - 7:00PM	BOF	Monitoring Trix	Monitoring Trix	Christopher D Maestas	1-2
5:30PM - 7:00PM	BOF	Multi-core Usage	Multi-core Clusters Usage Model	Gilad Shainer	22-23
5:30PM - 7:00PM	BOF	PVFS	PVFS: A Parallel File System	Robert Ross, Robert Latham	20-21
5:30PM - 7:00PM	BOF	SGI Altix	User Experiences with the SGI Altix	Dr. Horst-D. Steinhoefer, Gary Jensen	Ballroom B-C
5:30PM - 7:00PM	BOF	Visualization	Visualization Using Linux Clusters	Glenn Lupton	13

Thursday, Nov 16

Time	Туре	Session	Event	Chair/Speaker	Location
8:30AM - 9:15AM	Invited Speaker	Invited Speakers II	Real-time Supercomputing and Technology for Games and Entertainment	Hans Peter Hofstee	Ballroom B-C
9:15AM - 10:00AM	Invited Speaker	Invited Speakers II	Chip Innovations and Computer Revolution	Tsugio Makimoto	Ballroom B-C
10:30AM - 11:00AM	Exhibitor Forum	Advanced Networks	WiFiber: New Spectrum Links for Wireless Gigabit Transmission	Jonathan Wells	13
10:30AM - 11:00AM	Paper	Grid Networks and Portals	Revisiting Web Server Workload Invariants in the Context of Scientific Web Sites	Anne M Faber, Minaxi Gupta, Camilo H Viecco	20-21
10:30AM - 12:00PM	Panel	High Performance NFS	High Performance NFS: Facts and Fictions	Garth Gibson, Garth Gibson, Steve Kleiman, Spencer Shepler, Harriet Covertson, Peter Honeyman, David Black, Roger Haskin, Rob Kelley, Michael Callahan, Sujal Patel, Shmuel Shottan	24-25
10:30AM - 11:00AM	Exhibitor Forum	Innovative Technologies III	Advanced Memory Devices To Enhance Cluster Performance	Mike Jones	1-2

11:00AM

10:30AM - 11:15AM	Masterwork	Quantum Mechanics	Science at the Petascale - Tools in the Toolbox		
0:30AM	Scatter/Gather	Scatter / Gather II	Scatter/Gather	TBD TBD	18-19
2:00PM					
0:30AM	Paper	Tools and Techniques for Performance	Architectures and APIs: Assessing Requirements for	Keith Underwood, Scott Hemmert, Craig Ulmer	22-23
1:00AM		Tor renormance	Delivering FPGA Performance to Applications	Uniter	
0:30AM	SC Global Showcase	Training: Distributed Desktop Applications	TigerboardAG	Doc Lap Nguyen	14 - 16
1:15AM					
1:00AM	Exhibitor Forum	Advanced Networks	High Speed Firewalls: Securing the 10 Gigabit Ethernet WAN	Livio Riciulli	13
1:30AM			the to digabit Ethernet WAN		
1:00AM	Paper	Grid Networks and	End-System Aware,	Pallab Datta, Wu-chun Feng, Sushant	20-21
1:30AM		Portals	Rate-Adaptive Protocol for Network Transport in LambdaGrid Environments	Sharma	
1:00AM	Exhibitor Forum	Innovative	Liquid Cooling: A Next	Herb Villa	1-2
1:30AM		Technologies III	Generation Data Center Strategy		
1:00AM	Paper	Tools and Techniques	Exploiting the Performance of	Julie Langou, Julien Langou, Piotr	22-23
1:30AM		for Performance	32-Bit Floating Point Arithmetic in Obtaining 64-Bit Accuracy	Luszczek, Jakub Kurzuk, Alfredo Buttari, Jack Dongarra	
1:15AM	Masterwork	Quantum Mechanics	Ab Initio Nuclear Structure	David J. Dean	Ballroom
2:00PM			Determination		A
1:15AM	SC Global Showcase	Training: Distributed	The Meeting List Tool - A Shared Application for sharing	Adam C Carter	14 - 16
2:00PM	SHUWCase	Desktop Applications	dynamic information in meetings.		
1:30AM	Exhibitor Forum	Advanced Networks	The Weakest Link: the Impact of Wide Area Networking on	George Salemie	13
2:00PM			Networked Application Performance		
1:30AM	Paper	Grid Networks and Portals	Evaluating Grid Portal Security	David Del Vecchio, Victor Hazlewood, Marty Humphrey	20-21
2:00PM				inarty numpriley	
1:30AM	Exhibitor Forum		Topologies for Improved	Stephen Fried	1-2
2:00PM		Technologies III	InfiniBand Latency		
1:30AM	Paper	Tools and Techniques	FFT Program Generation for	Franz Franchetti, Yevgen Voronenko,	22-23
2:00PM		for Performance	Shared Memory: SMP and Multicore	Markus Pueschel	
2:15PM	BOF	99% Utilization	Is 99% Utilization of a	Allan Snavely, Jeremy Kepner	18-19
1:15PM			Supercomputer a Good Thing?		
2:15PM 1:15PM	BOF	Beyond MPI	Beyond MPI: Community Experience With Emerging Parallel Languages	Ronald W Green	20-21
2:15PM 1:15PM	BOF	FAST-OS	FAST-OS: Forum to Address Scalable Technology for	Arthur Maccabe	13

			Systems		
2:15PM 1:15PM	BOF	High Availability MPIs	Exploring the Importance of High Availability MPIs	Hakon Bugge	Ballroom A
2:15PM 1:15PM	BOF	InfiniBand & OpenFabrics	InfiniBand and OpenFabrics at SC06	Troy Benjegerdes	22-23
12:15PM 1:15PM	BOF	Internships & Mentoring	Internships and Mentoring in High Performance Computing Environments	Laura F McGinnis	17
2:15PM 1:15PM	BOF	PAPI Users Group	PAPI Users Group	Philip J. Mucci, Shirley V. Moore	1-2
2:15PM 1:15PM	BOF	TeraGrid Outreach	TeraGrid Outreach and Campus Partnerships	Scott Lathrop, Gary Bertoline	24-25
1:30PM - 2:15PM	Awards	Awards & Video	Awards Session	Dan Reed & Bill Gropp, Allan Sussman, Jeff Evans, Paul Fussell, Debbie Montano, Raymond L. Paden	24-25
1:30PM - 2:00PM	Paper	Blue Gene System Software	Topology Mapping for Blue Gene/L Supercomputer	Hao Yu, I-Hsin Chung, Jose Moreira	22-23
1:30PM - 3:00PM	Exotic Technologies	Exotic Technologies I	HPC Computational Systems of 2020	Erik DeBenedict, Fernand (Doc) Bedard, Thomas Sterling	18-19
1:30PM - 2:00PM	SC Global Showcase	Future Prototypes in Collaboration	Remote Inferface Control within an Access Grid environment	John W. Langkals	14 - 16
1:30PM - 2:00PM	Paper	Grid Scheduling and Protocols	Supporting Dynamic Migration in Tightly Coupled Grid Applications	Liang Chen, Qian Zhu, Gagan Agrawal	20-21
1:30PM - 2:15PM	Masterwork	Materials and Nano-Science	Toward Material-Specific Simulations of High Temperature Superconductivity	Thomas C. Schulthess	Ballroom A
1:30PM - 2:00PM	Exhibitor Forum	Other Networks	Seamless Live Migration of Virtual Machines over the MAN/WAN	Franco Travostino	1-2
2:00PM - 2:30PM	Paper	Blue Gene System Software	Designing a Highly-Scalable Operating System: The Blue Gene/L Story	Jose Moreira, Michael Brutman, Jose Castanos, Tom Gooding, Todd Inglett, Derek Lieber, Pat McCarthy, Mike Mundy, Jeff Parker, Brian Wallenfelt, Mark Giampapa, Thomas Engelsiepen, Roger Haskin	22-23
2:00PM - 2:30PM	SC Global Showcase	Future Prototypes in Collaboration	The Canadian Design Research Network's Prototype Design Grid	John Danahy, West Suhanic	14 - 16
2:00PM - 2:30PM	Paper	Grid Scheduling and Protocols	Evaluation of a Workflow Scheduler Using Integrated Performance Modeling and Batch Queue Wait Time Prediction	Daniel Nurmi, Anirban Mandal, John Brevik, Chuck Koelbel, Rich Wolski, Ken Kennedy	20-21
2:00PM - 2:30PM	Exhibitor Forum	Other Networks	The Unified Wire Adapter	Wael Noureddine Noureddine	1-2
2:15PM - 3:00PM	Awards	Awards & Video	SC06 Video: Powerful Beyond Imagination	Wilfred Pinfold	24-25
2:15PM - 3:00PM	Masterwork	Materials and Nano-Science	Atomic Scale Design of Nanostructures	Jerry Bernholc	Ballroom A
2:30PM - 3:00PM	Paper	Blue Gene System Software	Design and Implementation of a One-Sided Communication Interface for the IBM eServer Blue Gene Supercomputer	Michael Blocksome, Charles Archer, Todd Inglett, Pat McCarthy, Mike Mundy, Joe Ratterman, Albert Sidelnik, Brian Smith, Gheorghe Almasi, Jose Castanos, Derek Lieber, Jose Moreira, Sriram Krishnamoorthy, Vinod Tipparaju, Jarek Nieplocha	22-23

2:30PM - 3:00PM	SC Global Showcase	Future Prototypes in Collaboration	Evolving Stories Project: Beautiful Instants	Lila Pine	14 - 16
2:30PM - 3:00PM	Paper	Grid Scheduling and Protocols	Benchmarking XML Processors for Applications in Grid Web Services	Michael Head, Madhusudhan Govindaraju, Robert Engelen, Wei Zhang	20-21
3:00PM - 3:15PM	SC Global Showcase	SCGlobal Closing Remarks	Closing Comments	Ron Rankine	14 - 16
3:30PM - 4:00PM	Exhibitor Forum	Clusters And Blades	The Tera-10 System: Implementing the Number 1 Supercomputer in Europe	Jean-Louis Lahaie	13
3:30PM - 4:15PM	Masterwork	Computer Science - Architecture	Re-Inventing the x86 Architecture: Quad-Core and Beyond	Richard Oehler	Ballroom A
3:30PM - 5:00PM	Panel	Data Intensive Computing	Data Intensive Computing	Leslie S Perkins, Phil Andrews, Dhabaleswar Panda, Dave Morton, Ron Bonica, Nick Werstiuk, Randy Kreiser	24-25
3:30PM - 5:00PM	Exotic Technologies	Exotic Technologies II	HPC Storage Systems of 2020	Garth Gibson, Mark H. Kryder, Richard F. Freitas	18-19
3:30PM - 4:00PM	Paper	Grid Resource Management	CRUSH: Controlled, Scalable, Decentralized Placement of Replicated Data	Sage A Weil, Scott A Brandt, Ethan L Miller, Carlos Maltzahn	20-21
3:30PM - 4:00PM	Paper	MPI Tools and Performance Studies	MPI Performance Analysis Tools on Blue Gene/L	I-Hsin Chung, Robert E. Walkup, Hui-Fang Wen, Hao Yu	22-23
4:00PM - 4:30PM	Exhibitor Forum	Clusters And Blades	Blades: Innovations and Viability for HPC	Steve Langdon	13
4:00PM - 4:30PM	Paper	Grid Resource Management	CycleMeter: Detecting Fraudulent Peers in Internet Cycle Sharing	Zheng Zhang, Y. Charlie Hu, Samuel P. Midkiff	20-21
4:00PM - 4:30PM	Paper	MPI Tools and Performance Studies	Quantifying the Potential Benefit of Overlapping Communication and Computation in Large-Scale Scientific Applications	Jose Carlos Sancho Pitarch, Kevin J. Barker, Darren J. Kerbyson, Kei Davis	22-23
4:15PM - 5:00PM	Masterwork	Computer Science - Architecture	Beyond the Beyond and the Extremes of Computing	Thomas Sterling	Ballroom A
4:30PM - 5:00PM	Exhibitor Forum	Clusters And Blades	Introducing LiquidIQ: A Next Generation System for High Performance Computing	Mike Kemp	13
4:30PM - 5:00PM	Paper	Grid Resource Management	Designing a Runtime System for Volunteer Computing	David P. Anderson, Carl Christensen, Bruce Allen	20-21
4:30PM - 5:00PM	Paper	MPI Tools and Performance Studies	Blocking vs. Non-Blocking Coordinated Checkpointing for Large-Scale Fault Tolerant MPI	Camille Coti, Thomas Herault, Pierre Lemarinier, Laurence Pilard, Ala Rezmerita, Eric Rodriguez, Franck Cappello	22-23
6:30PM - 9:30PM	Social	Conference Reception	Conference Reception		

Friday, Nov 17

Time	Туре	Session	Event	Chair/Speaker	Location
8:00AM - 5:00PM	Workshop	Petascale Data Storage	Petascale Data Storage	Garth Gibson	1-2
8:00AM - 5:00PM	Workshop	Virtualization Technologies	1st IEEE/ACM International Workshop on Virtualization Technologies in Distributed Computing	Katarzyna Keahey	17
8:30AM - 10:00AM	Panel	Grid Standards	What's Inside the Grid? A Discussion of Standards and the Future of Computing	Gary Tyreman, Mark Linesch, Stephen Wheat, Andre Hill	24-25

8:30AM - 10:00AM	Panel	Reconfigurable Supercomputing	Is High-Performance, Reconfigurable Computing the Next Supercomputing Paradigm?	Tarek El-Ghazawi, Dave Bennett, Dan Poznanovic, Allan Cantle, Keith Underwood, Rob Pennington, Duncan Buell, Alan George, Volodymyr Kindratenko	22-23
0:30AM 2:00PM	Panel	Long Term Storage	100 Years of Digital Data	Francine Berman, Robert Chadduck, William Lefurgy, Dan Atkins, Tony Hey	24-25
10:30AM 12:00PM	Panel	Multi-Core Issues	Multi-Core for HPC: Breakthrough or Breakdown?	Thomas Sterling, Peter Kogge, William J Dally, Steve Scott, William Gropp, David Keyes, Pete Beckman	22-23



Awards & Prizes

Gordon Bell Prizes

HPC Competitions

SC Global / SC Desktop

Exotic Technologies

HPC Education

SCinet

ABOUT	REGISTRATION	CONFERENCE	TECHNICAL PROGRAM	EXHIBITS	NEWS & PRESS	TRAVEL	
<u>Home</u> → <u>Co</u>	nference → Keynote	e Speaker					
Overview	ŀ	Keynote Speaker					
	F	Ray Kurzweil, desc	ribed as "the restless genit	us" by the Wa	all Street Journal, ar	nd "the	
Schedule	L	ıltimate thinking r	nachine" by Forbes, will be	the keynote	speaker at SC06.		
Keynote Spea	iker k	urzeil's keynote a	ddress will open the SCO6	Technical Pro	ogram on Tuesday. N	lovember	

Kurzeil's keynote address will open the SC06 Technical Program on Tuesday, November 14, in the Tampa Convention Center. In it he will explain how the paradigm shift rate is doubling every decade, so the twenty-first century will see 20,000 years of progress at today's rate. Computation, communication, biological technologies (for example, DNA sequencing), brain scanning, knowledge of the human brain, and human knowledge in general are all accelerating at an even faster pace, generally doubling price-performance, capacity, and bandwidth every year.

Kurzweill was the principal developer of the first CCD flat-bed scanner, the first omni-fond optical character recognition, the first print-to-speech reading machine for the blind, the first text-to-speech synthesizer, the first music synthesizer capable of recreating the grand piano and other orchestral instruments, and the first commercially marketed large-vocabulary speech recognition.

Among Kurzweil's many honors, he is the recipient of the MIT- Lemelson Prize. In 1999, he received the National Medal of Technology, the nation's highest honor in technology, from President Clinton in a White House ceremony. In 2002, he was inducted into the National Inventor's Hall of Fame, established by the U.S. Patent Office. More information about his accomplishments can be found on his <u>website</u>.

Kurzweil has written five books, four of which have been national best sellers. "The Age o Spiritual Machines" has been translated into nine languages and was the #1 best selling book on Amazon.com in science. His latest book, "The Singularity is Near," which went into its fourth printing after two months, was the fourth best-selling science book of 2005 according to Amazon.com.

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<u>Home</u> → <u>C</u>	onference → Award	ds & Prizes				
Overview		Awards & Pr	rizes			
Schedule			continues to serve as the s s, recognizing key contribu		e e	e e
Keynote Spe	aker	networking and sto		J. J		
Awards & Pri						
Gordon Bell P			Computer Science and			
			gh performance computing Cray. The award will be pre			
HPC Competi		8:30am.				
HPC Educatio	on					
SC Global / S	C Desktop		ach Memorial Award hon em solving. The award will			
SCinet		Wednesday at 8:30				
Exotic Techno	ologies					
		scalability in severa	Prizes recognize groundbre al categories on genuine ar e been granted in four cate	nd specific sc	ientific applications	. In recent
			nance based on sustained rformance ratio measured			
		 Special according 	emplishment for innovation schieved through language		mplementation	
		Six finalists have b awarded at SC06:	een identified, from which	one or more	Gordon Bell Prizes	will be
		Laboratory h BlueGene/L calculations A lattice qua Vranas has a benchmark The structur detailed fini nodes of BG The Earth Si Machida of t	c structure calculation from headed by Francois Gygi ha system over a mix of FFTs for high-Z metals, with at antum chromodynamics sin attained 12 Tflop/s on 32K that exposes memory and ral dynamics of drop impact te element analysis for suc /L by a group led by Hiros imulator is the platform of the Japan Atomic Energy A odel to study superfluidity.	as attained ov , linear algeb tention to log mulation by a BG/L cores, network later ct on a cellpho ch a system is hi Akiba of Al choice for a g gency, which	ver 200 Tflop/s on t ra, and first-princip gical-to-physical ma a group at IBM head and studied QCD as ncies. one using an unpred s the subject of a st lied Engineering. group headed by Ma	he full les potentia ppings. led by Pavlo s an HPC cedently cudy on 4K
			was employed in a molecul		simulation of the fo	rmulation o

MD-GRAPE was employed in a molecular dynamics simulation of the formulation of

amyloids in yeast prions, attaining 55 Tflop/s, in a collaboration led by Makoto Taij of RIKEN.

 Atsuhi Kawai of the Saitama Institute of Technology led a team that built an FPGA-based system to perform astrophysical N-body simulations using a hierarchical tree algorithm, at a cost of approximately 16 cents per delivered Mflop/s, about two-third of the cost of the most recent price-performance winner.

This year the Gordon Bell Prize finalists will be presented in a separate track in the technical program.

The **Best Paper** and **Best Student Paper Awards** recognize the best of many outstanding papers in a highly competitive Technical Program. The honors will be presented in a special session Thursday at 1:30pm.

SCO6 Video: Powerful Beyond Imagination: An astonishing new generation of powerful supercomputers is opening windows to discovery that were previously unimaginable. From physics to engineering to medicine; from the subatomic to the cosmic, these new tools are pushing back age-old barriers to understanding and are radically changing the field of scientific exploration. Are we on the brink of a new Golden Age of Science?

<u>Questions</u>







ABOUT	REGISTRATION	CONFERENCE	TECHNICAL PROGRAM	EXHIBITS	NEWS & PRESS	TRAVEL
<u>Home</u> → <u>Co</u>	onference → Gordor	n Bell Prizes				-
Overview		Gordon Bell	Prizes			
Schedule			Prizes recognize groundbre al categories on genuine ar	•		
Keynote Spea	aker	years, awards have	e been granted in four cate	gories (not al	l are awarded every	year):
Awards & Pri	zes		mance based on sustained rformance ratio measured	0.		
Gordon Bell P	rizes	cost				
HPC Competi	tions		omplishment for innovation achieved through language		mplementation	
HPC Educatio		This year the Gordo technical program.	on Bell Prize finalists will b	e presented in	n a separate track ii	n the
SC Global / S	C Desktop	Questions				
SCinet						
Exotic Techno	logies					

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SEARCH

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ABOUT	REGISTRATION	CONFERENCE	TECHNICAL PROGRAM	EXHIBITS	NEWS & PRESS	TRAVE
Home → Co	<mark>nference</mark> → HPC C	Competitions				
Overview		HPC Compet				
Schedule		with other participa	a way to showcase HPC re ants. Building on prior succ			
Keynote Spea	Iker	challenges:	hollongo			
Awards & Priz	es	 <u>Analytics C</u> <u>Bandwidth</u> 				
Gordon Bell Pi	rizes	 <u>Storage Characteria</u> <u>ACM Studer</u> 	<u>allenge</u> nt Research Competitior	<u>1</u>		
HPC Competit	ions					
- HPC Analyt	ics Challenge					
	vidth Challenge					
- HPC Storag						
Competitio						
HPC Education						
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SC06 is the International Conference for High Performance Computing, Networking, Storage and Analysis SEARCH OWERFUL BEYOND IMAGINATION ABOUT REGISTRATION CONFERENCE TECHNICAL PROGRAM EXHIBITS NEWS & PRESS TRAVEL Home → Conference → HPC Education **HPC Education Program** Overview Submissions Now Open **Applications Notification** Schedule March 27, 2006 July 25, 2006 Keynote Speaker **Applications Close** June 30, 2006 Awards & Prizes **Gordon Bell Prizes** The Education Program theme this year is "Impacting the classroom curricula: Bridging **HPC Competitions** Discovery and Learning." The program builds and expands on the new pedagogical model for High Performance Computing where focus for participants is to empower faculty, **HPC Education** students and K-12 educators to apply computational science across a variety of content areas. These areas include nanotechnology, life sciences, earth and atmospheric sciences - Learning & Physical Challenges Education computer science, mathematics, and aerospace engineering and aeronautics. SC Global / SC Desktop Faculty, undergraduate students, and K-12 instructors participating in the SC06 program will benefit in a number of ways: **SCinet** • All participants will be exposed to tutorials that focus on how high performance **Exotic Technologies** computing can be applied in the classroom Participants on the learning teams will gain experiential knowledge based on the proposed on-site projects that will demonstrate how educators can leverage, and use, the Grid in their classrooms

 Educators and students will receive additional benefits from these proposed activities such as greater inclusion in the full SC conference and more exposure to leading vendors from industry

Participants will be selected from different geographic regions for participation in an onsit project during the SC06 conference. They will work with scientists on project simulation employing recently gathered data. Each participant needs to file an individual application Even if you are considering participating as a team — each team member, needs to file a separate application that will be reviewed. Scientists and educators will share information on applying high performance computing tools and resources across the curriculum and design ways in which to integrate modeling and visualization techniques into classroom instruction.

Learning & Physical Challenges Education Program

A new initiative of SC06 is the <u>Learning & Physical Challenges Education Program</u> (LPCE). This program is to empower grades 7 - 16 faculty/educators, special education professionals, and students to apply computational science across a variety of content areas in classrooms. The selected institutions will be announced at the SC06 Conference Tampa, Florida.

The institutions selected to participate will receive travel reimbursement to the SC06 Conference in Tampa. We will provide free SC Desktop which allows attendees to remotel attend Technical program talks. In addition, the institutions will receive two seminar days of presentations by high performance computing experts at their institutions in 2007. To be considered, please fill out the application on the Learning & Physical Challenges Education (LPCE) submission form.

<u>Questions</u>







POWERFUL BEYO	ND IMAGINATION					SEARCH	
ABOUT	REGISTRATION	CONFERENCE	TECHNICAL PROGRAM	EXHIBITS	NEWS & PRESS	TRAVEL	
	onference → SC GI		IECHNICAL PROORAM	EARIBITS	NEWS & PRESS	TRAVEL	
Overview		SC Global /	SC Desktop				
Schedule		Deadline October 31,	2006 for Satellite Site Regist	tration Open: <u>C</u>	<u>lick Here</u>		
Keynote Spea	aker	SC Global will play	a major part in SC06 by I	inking geogra	phically diverse cor	nmunities	
Awards & Pri	zes		orld and allowing them to e technologies will vary in				
Gordon Bell P	Prizes	multipoint informa	tion dissemination to high eople from business and eq	ly sophisticate	ed arts productions.	A wide and	
HPC Competi	tions	are touched by the	se technologies enabling t	those with sca	rce resources, spec	ialized	
HPC Educatio	n	expertise or equipr effective manner.	ment and education resour	rces to collabo	rate in a timely and	d cost	
SC Global / S	C Desktop		C Global will be open to al		attendees. To view t	he SC Globa	
SCinet		 Schedule, <u>click here</u> and filter by <i>SC Global</i>. As in past years, SCGlobal will be open to all conference attendees. 					
Exotic Techno	blogies		Brings SC'06 to Y		itendees.		
		-	2006 for SC Desktop Registr		ck Here		
			il debut last year, SCDeski ". As a Virtual Attendee yc			remotely as	
		 Keynote 					
		Plenary Sess	sions				
		 Masterworks 	s Sessions				
		 Exhibitor Fo 					
		 Poster Sessi 					
		 SC Global S 	essions				
		two-way audio and as an attendee will	vill access the above sessi I video connections to the receive a limited-term lic e provided so that attende	conference. A ense for the c	s part of your regist ollaboration softwar	tration you, re. Testing	
		Time Delayed Broa re-broadcast twelv	padcast: An added feature dcasting. All programs tha e (12) hours later. This tin the programs at a better ti	at are offered me delay will a	to our virtual attend	dees will be	
		Don't know which	you should sign up for?				
			mote attendees can be dor 5. See the chart below. Pri				

registration page: click here.

SC Global

- FREE via SC Global Satellites
- SC Global Sessions

SC Desktop

- Registration Fee
- Keynote
- Plenary Sessions
- Masterworks Sessions
- Exhibitor Forums
- Poster Sessions
- SC Global Sessions

Questions: scglobal@sc06.supercomputing.org



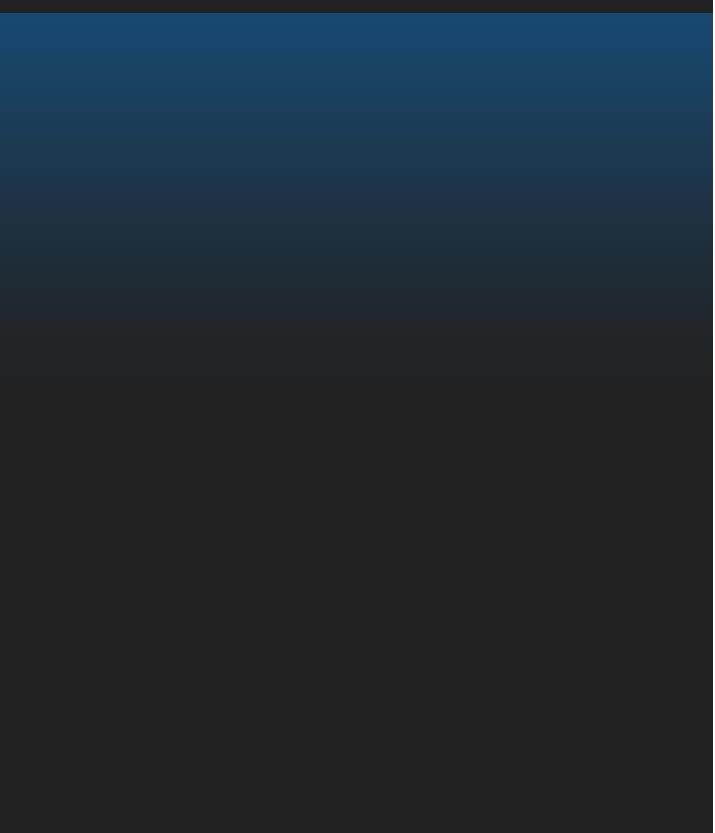


POWERFUL BEYOND IMAGINATION					SEARCH	
ABOUT REGISTRATION	CONFERENCE	TECHNICAL PROGRAM	EXHIBITS	NEWS & PRESS	TRAVEL	
Home → Conference → SCine	et		·		<u>.</u>	
Overview	SCinet					
Schedule	Connection Request System OpensLate Request Penalty BeginsAugust 31, 2006October 1, 2006					
Keynote Speaker	Connection Reque	est System Closes	<u>Questions</u>			
Awards & Prizes	October 27, 2006					
Gordon Bell Prizes	SCinet is the most	advanced technology ne	twork built on s	site to enable world	-class	
HPC Competitions	demonstrations and	to support the annual s	SC conference.	Designed and built	entirely by	
HPC Education		versities, government al speed wide-area commu				
SC Global / SC Desktop		world-class connectivity formance production-qu				
SCinet		nd worldwide networks t InfiniBand (OpenIB) Ne				
- Network Security Policy	experimental netwo	ork, Xnet. In addition, S	Cinet will provid	le the foundation fo	or conferenc	
- Service Level Policy	programs — includi Challenge.	ng SC Global, the HPC E	Bandwidth Chall	enge and the HPC	Analytics	
- Wireless Service Policy	Volunteers from edu	ucational institutions, hi	ah-performance	computing center	s network	
- Xnet	equipment vendors	, US National Laboratorie	es, research ins	titutions, research	networks a	
- OpenFabric and RDMA Services		carriers work together to nd carriers donate much				
- Network Performance Monitoring	conference and culr	the LAN and WAN infrastructure. Planning begins more than a year in advance of each SC conference and culminates with a high-intensity installation just seven days before the				
Exotic Technologies	conference begins.					
	of Contact (POC) wi make your network	for SCinet network conn III receive a username ar connection request. Ple ction requests made on	nd password alo ase contact you	ng with instruction r booth POC to obt	ns needed to ain this	
	heavy booth materi network fiber taped	ote: It is important when al on the fiber near the to the exhibit hall floor, undary along all aisle wa	edge of your bo , point-loads m	oth. To avoid dama ust not be positione	age to the ed within 18	
		<u>Bandwidth Challenge NRequest</u>		rvice Level Policy reless Service Po		
	SCinet Network S	ecurity Policy	<u>SCinet Xn</u>	<u>et</u>		

<u>Questions</u>



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POWERFUL BEYO	ND IMAGINATION	SEARCH					
ABOUT	REGISTRATION	CONFERENCE	TECHNICAL PROGRAM	EXHIBITS	NEWS & PRESS	TRAVEL	
Home → Conference → Exotic Technologies							

Exotic Technology Initiative

Overview	
	 New for 2006, the Exotic Technologies Initiative is a search for innovative technologies
Schedule	with the potential to make a major impact on high performance computing over the next
Keynote Speaker	15 years. Technologies such as field programmable gate arrays, multi-core chips,
	holographic storage and novel cooling techniques may offer near term benefits while
Awards & Prizes	quantum computing, chip level optical interconnect and fundamental material breakthroughs offer potential paradigm changing benefits over the long term.
Gordon Bell Prizes	Each year, we discuss what will be the best system at our next SC meeting, but SC06 wil
HPC Competitions	be different. Instead of looking one, two or three years ahead, the SC06 Exotic
	— Technologies Initiative will create a forum for dialogue about what will be the hottest
HPC Education	systems at SC2020.
SC Global / SC Desktop	
SC Global / SC Desktop	There will be two Exotic Technologies Panel sessions. In the first, experts in advanced
SCinet	system technologies will predict the design of the best HPC architectures in 2020. They will defend why they think the technology they called will be the winning technology 15
	will defend why they think the technology they select will be the winning technology 15 years from now. The second panel will be storage experts who will predict the best storag
Exotic Technologies	architectures in 2020. The panels will pick one set of technology — not a list of
	possibilities — to define the system. They will define the performance and aspects of the
	technologies and explain why their system is the most likely to succeed.
	How do attendees participate? Besides questions and comments at the sessions,
	attendees will vote for the proposed systems of 2020 they think are most likely to
	succeed. The presentations, votes and attendee comments will all be sealed in a time
	capsule that will be opened in 2020, which will be used in 2020 to compare the
	predications to reality. The time capsule will also include an appropriate prize for the
	presenter who made the best prediction.
	Exotic technologies will also have an exhibit to showcase technology being developed
	today that could be in the systems of 2015 to 2020. Technology doyclonars will exhibit

Exotic technologies will also have an exhibit to showcase technology being developed today that could be in the systems of 2015 to 2020. Technology developers will exhibit candidate technology for the future systems during exhibit hours.

<u>Questions</u>

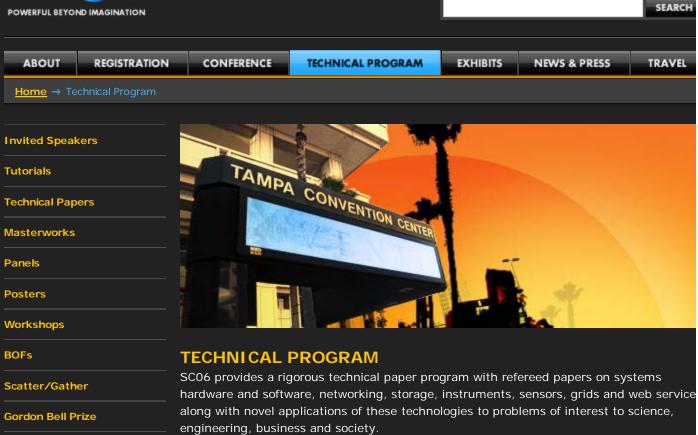






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Technical Papers

Panels

Workshops

Scatter/Gather



Masterworks

Tutorials



Posters



Birds-of-a-Feather

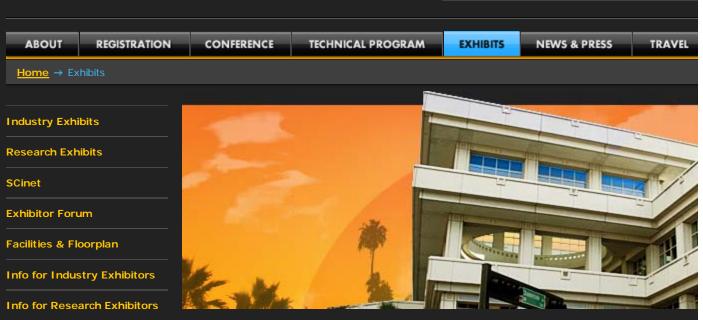


Gordon Bell Prize





SEARCH



EXHIBITS

At SC06, industry and research exhibits from the world's leading companies and organizations are showcased in a dynamic, interactive environment. High performance computing, networking, storage, data management, scientific visualization and collaborative technology are featured.

A limited number of opportunities remain for Industry and Research Exhibitors seeking space at SC06. Potential Exhibitors should contact SC06 and Hall-Erickson, Inc at 630-434-7779 for more information on exhibiting.

Questions







NEWS & PRESS

Welcome to the press room for SC06, the premier international conference on high performance computing, networking, storage and analysis.



Press Releases



<u>Newsletters</u>



For Media Professionals

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TRAVEL

SC06, the premier international conference on high performance computing, networking, storage and analysis, will convene in November 2006 in Tampa. Tampa Bay is a vibrant waterfront area on Florida's beautiful West Coast and offers a unique blend of urban excitement set in a natural surrounding.



Conference Hotels

<u>About Tampa</u>



Maps & Directions





