हाइपीसी
HiPC

15TH INTERNATIONAL CONFERENCE ON HIGH PERFORMANCE COMPUTING
December 17-20, 2008 | Bangalore, INDIA
http://www.hipc.org

The 15th International Conference on High Performance Computing (HiPC 2008), to be held in Bangalore, India, during December 17-20, 2008, will serve as a forum for presenting current work by researchers from around the world as well as to highlight activities in Asia, in the area of high performance computing.

GUEST SPEAKERS

Ashok Kumar C. Manoli,
Principal Secretary, Dept. of IT, Biotechnology, S & T, Govt. of Karnataka, Chief Guest at Conference Opening

Vishwanath (Vish) Madhugiri,
General Manager and Head of Global Research Alliances, Infosys Technologies Limited, Guest Speaker at Student Research Symposium Reception

KEYNOTES

> Extreme Computing on the Distributed European Infrastructure for Supercomputing Applications – DEISA
  Wolfgang Gentzsch, DEISA Distributed European Initiative for Supercomputing Applications, Germany
> The Excitement in Parallel Computing
  Laxmikant (Sanjay) Kale, University of Illinois at Urbana-Champaign, USA
> Towards networked computers: What can be learned from distributed computing?
  David Peleg, The Weizmann Institute of Science, Israel
> Computational Environments for Coupling Multiphase Flow, Transport, and Mechanics in Porous Media
  Mary F. Wheeler, University of Texas at Austin, USA

CONTRIBUTED PAPERS

The technical program will consist of 46 contributed papers chosen from 317 submissions from 27 countries. The papers will be presented in 8 sessions.

STUDENT RESEARCH SYMPOSIUM

HiPC 2008 will feature the first student research symposium on High Performance Computing on Wednesday, December 17th, aimed at stimulating and fostering student research, and providing an international forum to highlight student research accomplishments. The one-day symposium will feature brief presentations by student authors on their research, followed by a poster exhibit, and will be followed by a reception and industry-student mixer. For further details, contact the Student Symposium Co-Chairs at student_symposium@hipc.org.

WORKSHOPS

HiPC will host 5 workshops on Wednesday, December 17, 2008.

> Workshop on Grid and Utility Computing
> Workshop on Service-Oriented Engineering and Optimizations
> Workshop on Next Generation Wireless Networks
> High Performance FPGA/Reconfigurable Computing
> Cooling of HPC Systems: Why Computer Scientists Should Care?

CO-SPONSORS

IEEE computer society

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TUTORIALS

The meeting will feature two tutorials that will be presented on Wednesday, December 17, and will be open to HiPC attendees.

➤ High Performance Computing with CUDA
Presenters: Sanjiv Satoor and Punit Kishore, NVIDIA corp

➤ Hadoop - Delivering petabyte scale computing and storage on commodity hardware
Presenters: Yahoo Bangalore Cloud Computing Team

USER/INDUSTRY SYMPOSIUM ON HPC TECHNOLOGIES, APPLICATIONS & EXPERIENCE

The symposium will bring together providers and users of HPC to provide a forum for presenting the state-of-the-art in HPC platforms and technologies, for discussing best practices and for exchanging experiences. The symposium will feature plenary presentations and a panel discussion on Cloud Computing, along with technical sessions on Data Center Management, Data Center Storage Solutions, Web Application Development and Scientific Application Development with MPI. For further details, visit http://www.hipc.org/hipc2008/usersymposium.htm or contact the Symposium Co-Chairs at rama.govindaraju@gmail.com or santosh@talentain.com.

INDUSTRY/RESEARCH EXHIBITS

The exhibition session will consist of exhibits/presentations from vendor companies and R&D laboratories. For further details, contact the Industry Co-Chairs at rama.govindaraju@gmail.com or santosh@talentain.com.

CONFERENCE REGISTRATION

The conference registration includes attendance to all workshops and technical sessions and a copy of the HiPC proceedings. Visit the conference website http://www.hipc.org for further details.

INFORMATION FOR INDIA-BASED PARTICIPANTS

Registration at reduced rates is made possible for India based faculty, students, and researchers through sponsorships from India based industries and organizations. Travel scholarships for India based students are available on a merit basis to promote HPC research in India. For further details, contact the Scholarships Co-Chairs at scholchair@hipc.org.

SPONSORSHIP OPPORTUNITIES

The HiPC conference is annually sponsored by several Indian and international organizations, institutions, and companies. For sponsorship opportunities, contact the Industry Co-Chairs at sponsor@hipc.org.

CONFERENCE ORGANIZATION

GENERAL CO-CHAIRS
MANISH PARASHAR, Rutgers Univ., USA
RAMAMURTHY BADRINATH, HP, India

STEERING COMMITTEE CHAIR
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PROGRAM VICE CHAIRS

ALGORITHMS:
DAVID BADER, Georgia Institute of Technology, USA

APPLICATIONS:
ALAN SUSSMAN, University of Maryland, USA

ARCHITECTURE:
DAVID KAELI, Northeastern University, USA
MARTIN SCHULZ, Lawrence Livermore Laboratory, USA

COMMUNICATION NETWORKS:
JOSÉ NEUMAN DE SOUZA, Federal Univ. of Ceará, Brazil

MOBILE AND SENSOR COMPUTING:
CHEN-K THAM, National University of Singapore

SYSTEMS SOFTWARE:
CHO-LI WANG, Hong Kong University

For further details of the meeting, visit http://www.hipc.org.

20 Nov 2008