

25TH ANNIVERSARY 2010



INTERNATIONAL
SUPERCOMPUTING CONFERENCE

ISC'10

Hamburg, Germany

High Performance
Computational
Life Sciences

The Challenge for HPC Systems

'Life Sciences' is becoming a strategic discipline at the frontier between Molecular Biology and Computer Science, impacting medicine, biotechnology, as well as society. 'Life Sciences', the leading edge research is one of the most challenging supercomputer application for the future. At ISC'10 we will organize a special session about 'Life Sciences', to fulfill the growing interest from the public and the scientific world.

'Computational Life Sciences' is fast emerging as an important discipline for academic research and industrial application. The large size of biological data sets, inherent complexity of biological problems and the ability to deal with error-prone data all result in large run-time and memory requirements. This session will provide a forum for discussion of latest research (from world-class speakers and reputed researchers in the field) in developing high-performance computing solutions to problems arising from molecular biology.

'Life Sciences' span a whole set of research topics to better understand how the components of complex living systems interact and give rise to life and how their malfunction causes disease. The use of HPC is clearly a must and future progress and development in this field is only possible if supercomputers are heavily involved.

Chair: David A. Bader, Professor, Georgia Institute of Technology & Matthias Rarey, Professor, University of Hamburg

Come and join our 'Life Sciences' session and all the other sessions at ISC'10.

In-depth Session

Monday, May 31, 2010

ISC – The HPC Event

ISC

www.supercomp.de

Organizer of the International Supercomputing Conference
Prometeus GmbH | Fliederstraße 2 | 74915 Waibstadt-Daisbach | Germany

ISC'10

Where the HPC World Meets

May 31 – June 3, 2010

ISC'10 Keynotes

- **Kirk B. Skaugen**, Vice President, Intel Architecture Group & General Manager, Data Center Group, Intel USA
HPC Technology – Scale-Up and Scale-Out
- **Prof. Dr. Helmut Merkel**, Manager & Shareholder, EurAsia Global Concept, Peking, China
How the IT/Internet-Revolution Changes the Chinese Society
- **Prof. Dr. Thomas Sterling**, Arnaud & Edwards Professor of Computer Science, Louisiana State University, USA
HPC Achievement & Impact 2010
- **Prof. Dr.-Ing. habil. Horst Zuse**, TU Berlin/FH Lausitz, Germany
TOP500 List of the Early Computers

Conference Specials

- High Performance Computational Life Sciences
- Evolving New HPC Markets
- Fault Tolerance for Many-Core Systems
- HPC: Future Technology Building Blocks
- HPC & Networking
- Storage / Flash Technology in HPC
- Focusing Linpack: The TOP500 Yardstick
- Panel on Exascale Computing
- Innovative Applications
- Presentation of the 35th TOP500 List
- Hot Seat Sessions for grilling the HPC vendors with tough questions
- Exhibitor Forum featuring briefings on the latest technologies
- Scientific Sessions, various Birds-of-a-Feather (BoF) sessions, Research Poster session, award ceremonies
- Great after-hours social events like the ISC Welcome & 25th Anniversary Party and ample networking opportunities

For the 25th year in a row, ISC will unite the HPC global community, bringing informative and inspiring conference sessions together with the most comprehensive exhibition featuring all the leading technologies and applications in the supercomputing industry today. Again taking place in historic Hamburg, Germany, this time from May 31 to June 3, ISC is the HPC event to attend in 2010.

The conference will feature industry and academic-focused international debates coupled with exciting hot seat sessions that question and challenge the opinions of HPC key players and a wide range of other sessions discussing the latest industry trends. Adding more value to the experience, the ISC exhibition focusing on supercomputing, networks and storage technologies will allow visitors personal interaction with major HPC manufacturers and service suppliers.

With 2,000 attendees and 140 exhibitors expected from all over the world, ISC'10 features a world-class HPC exhibition and an exceptional lineup of speakers.

Conference: Monday, May 31 – Thursday, June 3, 2010

Exhibition: Monday, May 31 – Wednesday, June 2, 2010

Plan now to be a part of ISC'10 in Hamburg:

For further information, please visit: www.isc10.org

“Better networking, closer community relations and a warm atmosphere – That's ISC!”

Prof. Dr.-Ing. Michael Resch, Director, HLRS Stuttgart

