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February 13, 2013

ISC Introduces Big Data Conference

HEIDELBERG, Germany, Feb. 13 – ISC events, the organizers of the International Supercomputing Conference (ISC) and ISC Cloud proudly announce a new conference series – the ISC Big Data Conference. The inaugural event will be held September 25 and 26 in the Marriott Hotel, Heidelberg, Germany. Over the course of two days, the forum will scrutinize all facets of big data in order to empower practitioners and vendors who want to learn more about this rapidly evolving set of technologies.

The first Big Data Conference with the motto "ISC Big Data – Where HPC and Enterprise Meet" will be chaired by Sverre Jarp, the CTO of CERN openlab in Geneva, Switzerland. Sverre brings with him over 39 years of managerial and technical experience in the areas of high-throughput computing (HTC) and big data. His current fields of interest encompass multiple areas, including parallel programming and big data management for physics and other scientific domains.

With the ever-decreasing cost of storage, anyone can, in today's world of informatics, gather enormous amounts of data, be it through scientific instruments, fine-grained sensors, internet-based business intelligence, medical scans or a myriad of other sources.

"Commodity-based servers and fast interconnects allow companies and service providers to build infrastructure to transform data into meaningful results, significant trends and predictions. Big Data Analytics has become synonymous with 'power' and 'competitive advantage' through the extraction of valuable knowledge by transforming the data," said Sverre. "The challenge when implementing a 'Big Data' strategy is to select all the right building blocks allowing enterprise analysts or scientists to sift through huge amounts of data in the most nimble way and acquire genuine knowledge from it."

In order to build successful big data environments, multiple elements must be considered. This entails the physical hardware including the storage media; the entire computing infrastructure, whether it is an in-house solution or an external cloud-based environment; the database and file structures; and, maybe most importantly, the analytics software.

The ISC Big Data Conference will present best-of-breed practices and use cases, based on experiences gathered at large HPC installations and data-intensive enterprises. The event will also provide a forum to review and share the latest technology trends amongst the attendees. The information presented will be especially valuable to technical experts and key IT decision makers in the Big Data domain. Unlike other conferences that limit

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▶ Martin L. Edelman Appointed to AMD Board of Directors
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▶ Ethernet Technology Summit Slated for April 2-4
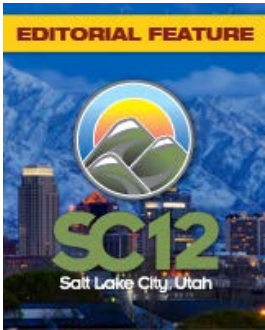
February 26, 2013

Feature Articles

Xyratex Captures Oracle's Lustre

With the announcement this week that storage maker Xyratex has acquired Oracle's Lustre assets, the popular open source parallel file system is once again completely under the control of HPC stakeholders.
Read more...

themselves to a narrower view, the ISC Big Data aims to actively encourage cross-fertilization between enterprise and HPC/HTC. It will also provide links to user sites with long traditions in processing huge data volumes, such as CERN and other facilities that must manage large data repositories.

ISC Cloud'13

ISC events will also be hosting ISC Cloud Conference, currently in its fourth year, but now focusing more on the use of clouds for HPC, end-users and service providers. This conference is highly valued by members of the HPC community who want to learn how they can benefit from this trend toward on-demand high-performance computing.

The ISC Cloud Conference will be held at the Marriott Hotel in Heidelberg, two days before the Big Data Conference, from September 23 – 24, 2013. As in years past, the conference will be chaired by the European "Cloud guru", Prof. Dr. Wolfgang Gentzsch.

The event organizers are currently inviting expert speakers with hands-on experience who will be reporting on advanced HPC Cloud topics and challenges. If you are interested in sharing your work with the conference attendees, please contact program_cloud@isc-events.com.

Cloud and Big Data Exhibition

Sponsorships at platinum, gold, silver and bronze levels are open for both events. Please contact Ms. Anna Schachoff at anna.schachoff@isc-events.com for more information.
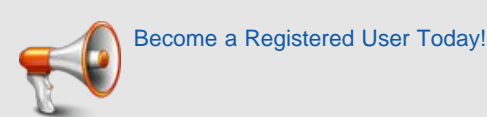

Source: ISC

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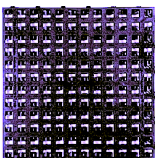
Hartree Centre Puts $45 Million Toward UK Innovation

With $45 million in government funding, the research center will develop software to make supercomputers more efficient and to help process data from the SKA, the world's largest radio telescope. The technology is being developed with industry partners, and will be made available to scientific and industrial organizations in the UK.
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The Week in HPC Research

The top research stories of the week have been hand-selected from prominent journals and leading conference proceedings. Here's another diverse set of items, including one on GPU programming, distributed file systems, exhaustive search with parallel agents, the benefits of invasive computing, and an HPC cloud proof-of-concept.
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Short Takes

BAM! Obama Backs Brain Mapping Project
Feb 26, 2013 | Proposed decade-long brain mapping initiative is similar in scope to the Human Genome Project.
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Make That Dr. Watson – IBM's AI Darling Grows Up
Feb 21, 2013 | AI prodigy and former Jeopardy champion Watson is ready for a career
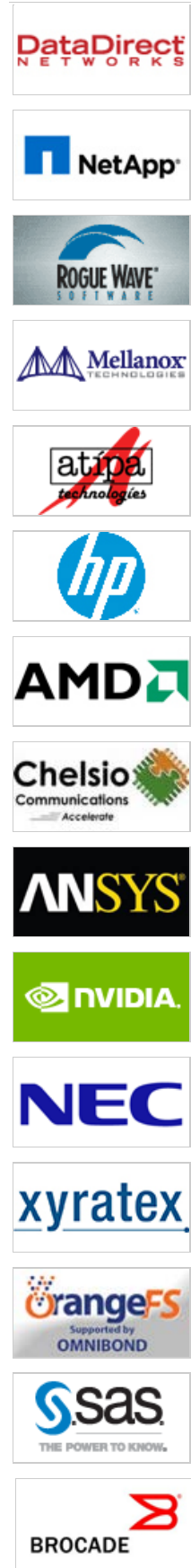
Accelerate your science with GPU computing

Free no obligation evaluation on Seneca's NVIDIA K20 Tesla GPU cluster system pre-loaded with AMBER, NAMD, LAMMPS and Quantum Espresso. Run your code to see your performance gain.

PGI 2013: OpenMP 1.5X faster than GCC, new GNU-compatible OpenACC C++ compiler, CUDA 5 and Tesla K20 support, and more.

- ioScale by Fusion-io: the Holy Grail of Hyperscale
- Get Your Free Copy of NAS Optimization for Dummies sponsored by Avere Systems
- PGI Compilers & Tools: Let the Chips fall where they may
- Cray Xtreme-Cool™ Supercomputer: Liquid-cooled architecture delivering superior energy-efficiency, lower TCO and faster ROI.

- Push back your limits with bullx direct liquid cooling blades
- Convey's Graph Personality captures the 5 top positions for single node systems on Graph 500 Benchmark
- Uncompromised Computer Power of Cray Xtreme-Cool™ Supercomputer
- Get the Benchmark: IBM Platform Symphony Accelerates Hadoop

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Computer Modeling Supports Antioxidant Breakthrough
Feb 19, 2013 | Researchers combine quantum chemistry, supercomputing to create a super-class of antioxidants.
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A Tale of On-Demand Supercomputing
Feb 15, 2013 | Chinese vendor commissions bare-metal, utility supercomputing service.
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How College Students Compete to Build the Fastest Supercomputers
Feb 14, 2013 | If you have an office betting pool about which college students are likely to win the next cluster challenge, here are some things you should know.
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Sponsored Whitepapers

Case Study: Allinea Software Saves Climate Change Researchers Precious Time
02/11/2013 | **Allinea** | Researchers have no time to lose in their quest to divine the future of the Earth's climate and its effects on humanity. When a problem arises, one of the world's top centers for climate research relies on Allinea DDT.

Get Your Free Copy of *NAS Optimization for Dummies* sponsored by Avere Systems
02/11/2013 | **Avere Systems** | Today, more and more organizations need to deal with massive quantities of data. Accessing that data without frustrating and costly delays—latency—becomes harder as the amount of data stored grows larger. This book explores what you can do to eliminate latency and maintain high-speed operation, even as the amount of data you store multiplies.

HPC Job Bank

- Senior HPC Scientist/Technical Lead - PMaC Laboratories, Inc.
- Research Engineering / Scientist Associate V - Texas Advanced Computing Center
- HPC System Administrator - The University of Chicago
- HPC Systems Administrator (2 positions) - North Dakota State University
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- February 15, 2013 - March 18, 2013
  Calling all Entrepreneurs! Win up to $50,000.00 in the Think Beyond Plastic Awards Competition
  Berkeley, CA
  United States

- March 18, 2013 - March 21, 2013
  Nvidia GPU Technology Conference
  San Jose, CA
  United States

- April 3, 2013 - April 04, 2013
  Networked Systems Design and Implementation 2013
  Lombard/Chicago, IL
  United States

Learn to:

- Scale NAS Performance separate from storage capacity
- *Eliminate* the three major sources of storage latency
- Gain the advantages of storage in the clou

▶ **View the White Paper Library**

▶ April 8, 2013 - April 08, 2013
  HPC Linux for Wall Street
  New York City, NY
  United States

IDC HPC USER FORUM
HPC User Forum!
April 29-May 1

▶ April 29, 2013 - May 01, 2013
  IDC HPC User Forum 2013
  Tucson, AZ
  United States

Sponsored Multimedia

Webinar: Extreme Scalability for High-Fidelity CFD Simulations
CFD models of 100 million+ cells are increasingly common. Models of a billion+ cells are emerging. To meet demand for 10 to 100x larger models, the simulations will have to scale to 10 to 100x more cores. Both compute environment capabilities and capacity must be enhanced. Learn how Cray and ANSYS are scaling production models to 1000s of cores and providing the compute environment to take CFD simulations to the next level of extreme fidelity.

ISC'13
THE HPC EVENT

▶ June 16, 2013 - June 20, 2013
  ISC'13
  Leipzig,
  Germany

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Webinar: Methodology & Tools for Compute Performance at Any Scale
Clusters and workstations are often sized by one-off benchmarking campaigns during tenders, way before production. This method is efficient, but has drawbacks. This webinar will expose HP's benchmarking method and the principle and benefits of leveraging this method day-to-day production. It will highlight some unique intellectual property, namely HP iLO 4 and HP Cluster Management Utility (CMU), to perform "smart job scheduling". Register Now.

HPCwire
Conference and Events Calendar

Stay informed with the most complete and up-to-date current events calendar in the HPC industry.

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