Lawrence Livermore’s Sequoia Supercomputer Towers above the Rest in Latest TOP500 List
Thu, 2012-06-14 13:28

MANNHEIM, Germany; BERKELEY, Calif.; and KNOXVILLE, Tenn.—For the first time since November 2009, a United States supercomputer sits atop the TOP500 list of the world’s top supercomputers. Named Sequoia, the IBM BlueGene/Q system installed at the Department of Energy’s Lawrence Livermore National Laboratory achieved an impressive 16.32 petaflops on the Linpack benchmark using 1,572,864 cores.

Sequoia is also one of the most energy efficient systems on the list, which will be released Monday, June 18, at the 2012 International Supercomputing Conference in Hamburg, Germany. This will mark the 39th edition of the list, which is compiled twice each year.

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39th TOP500 List to be released at ISC12
Wed, 2012-06-13 22:16

The 39th TOP500 list will be released Monday, June 18, at the 2012 International Supercomputing Conference in Hamburg, Germany.

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The TOP500 Celebrates 20th Anniversary, Will it Survive 20 More?
Tue, 2012-06-12 15:46

The TOP500 has provided a ranking of systems for two decades in a consistent fashion, which has provided the high-performance community with a way to

39th TOP500 List to be released at ISC12

39th TOP500 List to be released at ISC12
K computer

The K computer – named for the Japanese word “kei” (栗), which stands for 10 quadrillion[1] – is a supercomputer being produced by Fujitsu at the RIKEN Advanced Institute for Computational Science campus in Kobe, Japan. In June 2011, the TOP500 ranked K the world's fastest supercomputer, with a rating of over 8 petaflops, and in November 2011, K became the first computer to top 10 petaflops. It is expected to become fully operational in November 2012.

About Counting, Dividing and Scaling Down

Thu, 2012-06-07 11:25 | whispers

Nvidia reclaims the top position in the discipline of who-has-the-biggest, AMD revises its counting-out rhyme and finds important former employees at its competitors. Intel invests in new factories – but due to a lack of satisfactory government grants, it has chosen Ireland instead of Israel.

Looking at Innovation Beyond the TOP500

Mon, 2012-05-21 22:47

In this video, Suraj Gupta from Nvidia shares his thoughts on the TOP500 and the innovation going on with the powerful supercomputers that never make the list. Recorded at GTC 2012 in San Jose.

About Big Brothers and Strong Children

Mon, 2012-05-21 22:43 | whispers

Intel launches new Xeon processors, Nvidia presents Kepler 2 and AMD rolls out Trinity – and looses its head Bulldozer developer. The new Xeon E5 families are first of all supposed to allow for inexpensive servers with AVX and PCI Express 3.0. That’s particularly true for the E5-2400 line, which, technologically, isn’t very thrilling though, as it’s just a more economic version of the E5-2600 line, which was already released back in March. It has three instead of four memory channels and one instead of two QPI links. This way, it reduces the system design both in complexity and price through a smaller socket (LGA1356).

John West from DoD Mod on the TOP500 and Sharing the Goodness of HPC

Wed, 2012-05-02 15:59

Happens at the Backend-and-Unix’s Got Your Back

HPC News Blizzard from ISC’12

Podcast: Jack Dongarra on the June 2012 TOP500

Video: Allinea DDT Debugger Support for the New Intel Xeon Phi Accelerator

Video: Achieving Ultra-low Latency in the Cloud: How Low Can We Go?

IBM US Nuke-lab Beast ‘Sequoia’ is Top of the Flops (Petaflops, that is)

Video: HPC at the University of Colorado and the Student Cluster Competition

US Leads TOP500 Once Again with 16 Petaflop Sequoia from IBM

HPC Market Trends from the 451 Group

CAPS to Demo OpenACC Portability at ISC’12

Video: Xyratex – The Next Gen in Storage Performance and Efficiency

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If I had enough time, I could write less.

Pascal
In this video, John West, Director of the DoD HPC Modernization Program discusses the TOP500 list and how HPC users need to better communicate the benefits of high performance computing.

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 biscuits will reach ‘exascale’ speeds within decade
Mon, 2012-04-23 13:59
Supercomputers powerful enough to simulate the human brain will be developed within seven years, a leading supercomputer expert has predicted.

Professor Hans Werner Meuer, co-founder of the Top500 list of supercomputers, said that computers capable of processing a million trillion calculations a second would be available by 2019.

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About Ivy Bridges and Tegra Hitches
Tue, 2012-04-10 03:13 | whispers
Intel causes confusion with the Ivy Bridge’s launch date, HP starts a second restructuring attempt and Nvidia launches rumors about a Tegra 4 – all (amongst other things) because of Apple.

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About Armadas and Sinking Chips
Tue, 2012-03-27 08:00 | whispers
Until now, things haven’t been going well for Intel in the TV market. A new media processor is supposed to help it gain a foothold with settop boxes, and concerning the television business, Intel has further grandiose plans. AMD could minimally increase its market share in the past year, but suffered severe losses in the server sector. The new Opteron 3200 family is supposed to turn the tides.

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About Old Annoyances and New Challenges
Mon, 2012-03-12 13:50 | whispers
It is hard to believe, but with the Remote Management Module 4, for the servers with the new Xeon E5 processors, Intel gets rid of a long-standing annoyance, AMD sells its remaining stake in Globalfoundries and might equip the next Sony Playstation.

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About Elisions and Epentheses
White held the spot for world’s fastest supercomputer for two years from 2000-2002. It was capable of computing 12.3 trillion operations per second.

Intel releases the instruction extension for transactional memory and gives numerous speeches at the International Solid-State Circuits Conference (ISSCC). AMD equips the Pilkeeper with inductors and China delivers another new processor.

» Read more

About TLAs and IPOs
Wed, 2012-02-15 11:47 | whispers
Intel’s Haswell processor casts its shadow before it, AMD starts an open-standard IP initiative for SoCs, Apple partner Audience Inc is going public and the final end of the Itanium is on the horizon.

» Read more

Number Crunching, Data Crunching and Energy Efficiency: the HPC Hat Trick
Tue, 2012-02-07 02:01
In the world of high performance computing, there are three distinct metrics in play: number crunching speed; data crunching speed; and energy efficiency. Can a computer excel at all three, or is our best recourse to try for something less than a hat trick?

Read more

2011 China HPC TOP100 was released
Wed, 2012-02-01 15:12
The China TOP100 List of High Performance Computer was released by the Specialty Association of Mathematical & Scientific Software (SAMSS), CSIA.

More News

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