

Upgraded version of the core router used in the supercomputing center



Overview

The Cisco 8223 rises to the challenge as the only 51.2 terabits per second (Tbps) Ethernet fixed router built for the intense traffic of AI workloads between data centers. China is using a domestic processor as the backbone for double the performance of the Tianhe-2 system, which topped the Top 500 starting in 2013 and running through late 2015 before being overshadowed by the Sunway system in recent years. We have no official public details about Tianhe-3, although. Jupiter is an exascale supercomputer hosted at Forschungszentrum Jülich in North Rhine-Westphalia, Germany. It is based. The Sunway SW26010 Pro CPU is a homegrown chip that aims to boost China's supercomputing capabilities and reduce its reliance on foreign technology. China has unveiled its latest supercomputer, powered by a new processor with 384 cores and can perform more than 13 trillion floating-point operations. Powered by the introduction of the new Silicon One P200 chip, Cisco's groundbreaking 8223 routing systems redefine secure, efficient AI networking - enabling seamless 'scale-across' architectures that connect AI clusters across multiple data centers. The system, called Tianhe Xingyi, is expected to meet rising demand in the fields of high-performance computing, large model artificial intelligence training and big data. Since the early 2000s, China has expanded its presence in the TOP500 rankings of supercomputers, with systems such as Tianhe-1A reaching first place in 2010 and Sunway TaihuLight leading in 2016.

Article Content

Cisco Sets Benchmark with Industry's Most Scalable,

Beyond supporting our Cisco Silicon One Q200 deployment scenarios, this new routing chip will enable us to extend into the Core network,

China's 384-core CPU: a supercomputing breakthrough

The CPU is an upgraded version of the Sunway SW26010, which was used in the Sunway TaihuLight supercomputer, which ranked as the world's

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The LUMI-Q consortium has inaugurated the VLQ quantum computer at the IT4Innovations National Supercomputing Center in the Czech Republic. The system, supplied by

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Giant leap for supercomputer dark horse

While the home-grown chips the new Sunway uses are not as powerful as the US version, scientists have increased the number of cores – the fundamental units of computation – in the

Huawei's ADS 2.0 update brings hardware cost reduction and

Tesla rolled out the latest version of FSD V12 to employees, while domestic manufacturers like Xpeng and Huawei continue to make progress. With the official launch of Avita 12 on November 10th, ADS

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Huawei's ADS 2.0 update brings hardware cost reduction and

Regarding autonomous algorithms, the company unveiled its progress in perception, decision-making planning, and vector mapping for the first time. Regarding supporting infrastructure, Tesla also

New-generation supercomputer unveiled

A new-generation domestically developed supercomputing system was unveiled on Wednesday in Guangzhou, Guangdong province.

National Science Foundation Network

The routers on the upgraded backbone were IBM RS/6000 servers running AIX UNIX. Core nodes were located at MCI facilities with end nodes at the

China reveals high-performance supercomputer, a

To counteract this, in the new Sunway system, Chinese scientists have adopted a strategy where, despite the individual chips' inferiority, they

China's 384-core CPU: a supercomputing breakthrough

China's new 384-core CPU boosts its supercomputing capabilities The Sunway SW26010 Pro CPU is a homegrown chip that aims to boost

Jupiter (supercomputer)

Overview Design History Funding Early access and research Applications Collaborations and partnerships Impact

Jupiter is an exascale supercomputer hosted at Forschungszentrum Jülich in North Rhine-Westphalia, Germany. Developed by the Jülich Supercomputing Centre (JSC) and owned by the European High-Performance Computing Joint Undertaking (EuroHPC JU), Jupiter became operational in June 2025. It is based on a modular architecture featuring NVIDIA GH200 Grace Hopper Superchips and is recognized as Europe's f

What's Inside China's New Homegrown "Tianhe Xingyi" Supercomputer?

Today at the Supercomputing Innovation Application Conference in Guangzhou, researchers announced a new generation of the "Tianhe" machine called "Tianhe Xingyi".

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Microsoft

Service Level Agreements (SLA) for Online Services. The Service Level Agreements (SLA) describe Microsoft's commitments for uptime and connectivity for Microsoft Online Services

National Supercomputer Center in Tianjin_Baiduwiki

The installation of the TH-1A system made the Tianjin Center China's first supercomputing center to possess a petaflop computer, and also one of the few research and public service institutions in the

Supercomputing in China

In 2016, China's Sunway TaihuLight supercomputer became the world's fastest, achieving a peak performance of 93 petaflops per second. It was nearly three times faster than the

New Sunway: how China has sidestepped US

This new generation of Sunway is made possible largely because it is underpinned by a more powerful processor, the Sunway SW26010 Pro CPU,

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://saastisfy.fr>

Email: sales@saastisfy.fr

Phone: +33 6 52 81 47 39

Address: 75 Rue de Rivoli, 75001 Paris, France

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