

BUSINESS BENEFITS

- > Provide 24x7 access to computational resources for the worldwide community of Arctic researchers and HPCMP users
- > Provide a cost-competitive solution for supercomputing in a complex, heterogeneous environment
- > Provide high-performance computing resources to scientists and students
- > Incubate future generations of computational scientists focusing on polar region research

WITH SUN, YOU CAN ACHIEVE...

50-80% decrease in footprint
70-80% increase in server utilization
30+% decrease in power consumption

LEARN MORE ABOUT WHAT YOU NEED TO KNOW

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HIGH PERFORMANCE COMPUTING

SUN FACTS YOU NEED TO KNOW

A BUSINESS STORY

The Arctic Region Supercomputing Center (ARSC) at the University of Alaska Fairbanks operates under the U.S. Department of Defense High Performance Computing Modernization Program (HPCMP). Located on the campus of the Arctic University of the United States, ARSC is a research leader in supporting scientific analysis and discovery of polar regions with state-of-the-art technology and high performance computational resources.





SUN POWERS THE TEXAS ADVANCED COMPUTING CENTER AT THE UNIVERSITY OF TEXAS, WHICH WAS RANKED AS ONE OF THE TOP 10 PERFORMING SUPERCOMPUTERS IN THE WORLD IN 2008, ACCORDING TO TOP500.ORG

A common theme of CIO strategic plans includes initiatives to enable their messages to reach all customers and constituents regardless of how they access the information. Sun has extensive knowledge, technologies, methodologies and a successful track record in helping customers optimize to reduce costs, deliver predictable service levels, and improve manageability. Sun can help organizations:

- > Securely, rapidly, and reliably deliver information to stakeholders
- > Identify and use interoperable IT solutions efficiently and effectively across the enterprise

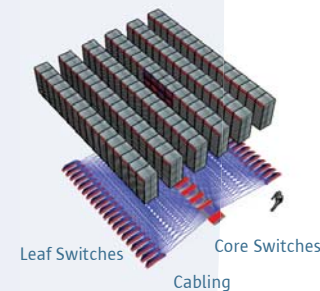
Whether you are performing data analysis, molecular modeling, product simulations, portfolio optimization, or other data-intensive tasks, Sun's High Performance Computing (HPC) solutions deliver the application performance required to get the job done fast. Sun's solutions have set over 130 world-record performance benchmarks to date. Key benefits include:

- > Increase performance – The fastest, most reliable, and most energy-efficient x64 servers in the industry allow you to run more simulations, searches, and jobs in less time
- > Establish a vision – Industry-leading system designs that reduce operating costs with maximum performance
- > Stay ahead of the curve – Respond faster to global demands using Sun's powerful and flexible HPC solutions
- > Reduce limitations – Preserve flexibility and protect IT investments by adopting Sun's open, scalable architecture of standard interfaces and off-the-shelf components
- > Experience greater choice – Increase effectiveness by matching the right tool to the right job with Sun's portfolio of software, systems, and acquisition model options
- > Build longevity – Save money and architect lasting, adaptable solutions with scalable systems from Sun
- > Innovate – A complete solution for developing, deploying, running, and managing a range of applications

“The Sun solution offers a strength through the combination of security and flexibility of operation so that we can provide a collaborative environment for the Generation IV nuclear reactor design project and other energy research.”

- Eric Greenwade
Chief IT Architect, INL

Competitor computer cluster



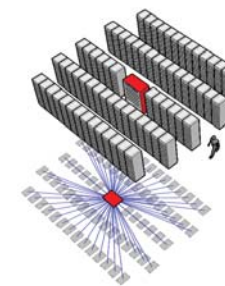
Competitors Cabling Infrastructure

Alternative Open Standards Fabric

- 300 Switching Elements
- 6912 Cables
- 92 Racks

- > Minimize risk – Integrate your systems based on Sun and third-party products before they are shipped – we can simplify your implementation, accelerate your deployment, and reduce risk for your project
- > Utilize open standards – Sun's systems allow you to be flexible and run your choice of operating system – open source Solaris™, Linux™ or Windows™

Sun constellation system cluster



Reduced Cabling

Constellation Systems Open Super Computer

- 1 Switching Element **300:1 Reduction**
- 1 152 Cables **6:1 Reduction**
- 74 Racks **20% Smaller footprint**

- > Collaborate with partners – Our business model is built on partnering with the right people to deliver the best possible solutions