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Okinawa Institute of Science and Technology Graduate University Deploys 438 Node Supercomputer on Supermicro® TwinBlade® and FatTwin™ SuperServers

OIST Sango Supercomputer Delivers 252.7 TFlop/s (Linpack Performance) and 3 Petabytes of Storage for Scientists Focused on Environmental Protection and Sustainable Development Research

OKINAWA, Japan, Aug. 10, 2015 /PRNewswire/ -- **Super Micro Computer, Inc. (NASDAQ: SMCI)**, a global leader in high-performance, high-efficiency server, storage technology and green computing announces the deployment of a new supercomputer in Japan at the Okinawa Institute of Science and Technology Graduate University (OIST) supporting scientists and researchers focused on discovery and innovation in the life, physical and environmental sciences. The OIST Sango Supercomputer is a collaboration between Industry HPC leaders, Supermicro, DataDirect Networks and Mellanox to integrate Supermicro 7U TwinBlade® and 4U FatTwin™ compute nodes with lowest-latency and massive storage capacity. Sango, recently ranked #281 on the Top500, serves the OIST research community with 438 nodes consisting of Intel® Xeon® E5-2600 v3 processors combined with Intel® Xeon Phi™ 7120P Coprocessors. The supercomputer also provides 3 Petabytes of high-performance DDN® Storage integrated via low-latency 56Gb/s FDR InfiniBand®.

"Supermicro is pleased to support OIST environmental protection research with design and deployment services of our Green Computing solutions for their Sango Supercomputer," said Tau Leng, Vice President/General Manager of HPC at Supermicro. "The HPC system integrates our latest TwinBlade and FatTwin SuperServer platforms with 56Gb/s FDR InfiniBand, 10G/40G Ethernet network switches and parallel file storage system for a complete end-to-end infrastructure solution. With our high-performance and high-efficiency systems, the Sango Supercomputer provides OIST a powerful and yet energy efficient tool to accelerate their research for many years to come."

"I have been very impressed by the quality of the cluster we received through the collaboration of Supermicro, DDN and Mellanox," said Tim Dyce, Chief Information Officer, Okinawa Institute of Science and Technology Graduate University. "These resources place us well to support the world-leading research activities taking place here at OIST."

"We are excited to work again with OIST, to support scientists at one of the fastest-growing research universities in Japan with HPC storage capabilities," said Robert Triendl, General Manager of DDN Japan, "The combination of Supermicro servers, Mellanox InfiniBand, and versatile EXAScaler storage from DDN provide OIST with a powerful but cost-effective platform to deal with the most demanding research computing and scientific data analysis challenges."

"Mellanox leads the industry in high-performance, smart and flexible interconnect technology offering 100Gb/s performance with EDR InfiniBand for the most demanding HPC applications, and the OIST Sango project highlights our specialty in this field," said Gilad Shainer, Vice President of Marketing at Mellanox Technologies. "Our longstanding collaborative efforts with Supermicro and DDN accelerate the development and deployment process for large scale supercomputing clusters. We look forward to working with our close partners to further build robust and scalable high-performance infrastructures."

Okinawa Institute of Science and Technology Graduate University Sango Supercomputer Specifications

- 400x Computing nodes: Supermicro 7U SuperBlade® 2-node, dual-processor TwinBlade® (SBI-7228R-T2F) supporting Intel® Xeon® Processor E5-2680 v3 (12C, 2.5GHz)
- 20x Large Memory nodes: Supermicro 4U 8-node FatTwin® (SYS-F618R2-RT+) supporting 512GB of DDR4 memory @2133MHz
- DDN® Storage: 15 nodes (including 12 OSS nodes) 3PB
- 3x Intel® Xeon Phi™ nodes: Supermicro 2U single node SuperServer (SYS-2028GR-TR) supporting 4x Intel® Xeon Phi™ 7120P Coprocessors per node
- 3x future Accelerator nodes, plus additional Administration nodes
- Supermicro TwinBlade with onboard 56Gb/s FDR InfiniBand, SuperBlade® 56Gb/s FDR InfiniBand modules (SBM-IBS-F3616M), 1U Top-of-Rack 10GbE (SSE-G48-TG4), 1GbE (SSE-G2252) and Mellanox 10/40/56GbE FDR InfiniBand (SX1024, SX6518) network switches
- Linpack Performance (Rmax) 252.7 TFlop/s
- Operating System: CentOS

For more information on Okinawa Institute of Science and Technology Graduate University visit www.oist.jp.

For more information on DataDirect Networks visit www.ddn.com.

For more information on Mellanox Technologies visit www.mellanox.com.

For more information on Supermicro's complete range of high performance, high-efficiency Server, Storage and Networking solutions, visit www.supermicro.com.

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About Super Micro Computer, Inc.

Supermicro® (NASDAQ: SMCI), the leading innovator in high-performance, high-efficiency server technology is a premier provider of advanced server Building Block Solutions® for Data Center, Cloud Computing, Enterprise IT, Hadoop/Big Data, HPC and Embedded Systems worldwide. Supermicro is committed to protecting the environment through its "We Keep IT Green®" initiative and provides customers with the most energy-efficient, environmentally-friendly solutions available on the market.

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