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One Stop Systems Introduces Expanded Portfolio of Composable Infrastructure Solutions at ISC 2018

ESCONDIDO, Calif. and FRANKFURT, Germany, June 25, 2018 (GLOBE NEWSWIRE) -- One Stop Systems, Inc. (Nasdaq:OSS), the leading provider of high performance computing (HPC) systems using GPU accelerators and NVMe flash arrays for a multitude of HPC applications, will exhibit its newest version of GPUltima-CI, a rack-scale composable infrastructure solution with the latest NVIDIA® V100 Tensor Core GPU accelerators, at the ISC High Performance 2018 annual conference.

As the largest HPC forum in Europe, being held in Frankfurt, Germany on June 24-28, the ISC 2018 exhibition will feature about 150 exhibits from leading HPC companies and research organizations.

“The newest version of the GPUltima-CI features hardware and software from OSS partner Dolphin Interconnect Solutions,” said Steve Cooper, CEO of OSS. “The Dolphin switch and eXpressWare SmartIO software provide the PCIe switch fabric for the GPUltima-CI so that any node in the system has access to a multitude of NVIDIA Volta GPUs and expansive storage resources.”

The GPUltima-CI power-optimized rack can be configured with up to 32 dual Intel Xeon Scalable Architecture compute nodes, 64 network adapters, 48 NVIDIA Tesla® V100 GPUs, and 32 NVMe drives on a 128 Gb PCIe switched fabric, and can support tens of thousands of composable server configurations per rack. Using one or many racks, the OSS solution contains the necessary resources to compose any combination of bare metal servers with GPU, NIC and NVMe storage resources as may be required in today’s mixed workload data center.

“OSS stays on the cutting edge of technology by utilizing NVIDIA Tesla V100 GPUs, the most advanced data center GPU ever built, which provide a single, unified computing platform for both AI and HPC,” said Paresh Kharya, group product marketing manager of Accelerated Computing at NVIDIA. “One Stop Systems’ customers can now tap into the power of our Volta architecture in their composable infrastructure systems.”

Composable infrastructure allows customers to dynamically map large numbers of bare metal server nodes to the optimum number of GPU, NICs and NVMe storage resources required to complete a specific task. When the task completes, the resources return to the cluster pool so they can be mapped to the next set of nodes to run the next task. The static composable infrastructure demo in the OSS booth and the live demo in the Dolphin booth both utilize OSS expansion hardware, Dolphin PCIe switch fabric hardware and composable infrastructure software to demonstrate how server nodes utilizing GPUs and NVMe drives can be composed and decomposed in real time, without powering down the servers or expansion systems.

“Dolphin is pleased to partner with OSS to provide customers with the highest performance hardware,” said Hugo Kohmann, CEO of Dolphin. “The Dolphin eXpressWare SmartIO software offers a flexible way to enable PCIe IO devices, such as GPUs, FPGAs, and NVMe SSDs, to be accessed from any server within a PCIe Network. The software allows for device lending over the PCIe network without any software overhead at the performance of PCI Express.”

Composable infrastructure is also available as a cloud solution. Data scientists can rent the latest technology composable infrastructure systems and software using operational expenditure budgets rather than capital equipment budgets. OSS will provide composable infrastructure solutions in the cloud via SkyScale, an OSS co-funded creation and high-performance computing as a service provider.

Visitors to ISC 2018 can view these composable infrastructure demos at the One Stop Systems booth, #D-1011, and the Dolphin booth, #C-1252. Customers can order the hardware utilized in these demos from One Stop Systems’ highly-trained sales engineers at sales@onestopsystems.com.

About ISC High Performance
First held in 1986, ISC High Performance is the world’s oldest and Europe’s most important conference and

networking event for the HPC community. It offers a strong five-day technical program focusing on HPC technological development and its application in scientific fields, as well as its adoption in commercial environments. ISC High Performance attracts engineers, IT specialists, system developers, vendors, scientists, researchers, students, journalists, and other members of the HPC global community. The exhibition draws decision-makers from automotive, finance, defense, aeronautical, gas & oil, banking, pharmaceutical and other industries, as well those providing hardware, software and services for the HPC community.

About Dolphin Interconnect Solutions
A leading supplier of high speed PCI Express Fabrics, Dolphin Interconnect Solutions is a global provider of ultra-low latency, high-bandwidth computer interconnect solutions for high-speed real-time systems, clustered databases, general networking, web services and industrial embedded applications for more than 25 years. In addition, Dolphin supplies OEM host adapters, switches, and software to leading Military and system OEMs. For more information, visit www.dolphinics.com.

About One Stop Systems
One Stop Systems, Inc. (OSS) designs and manufactures high performance compute accelerators, flash storage arrays and customized servers for deep learning, AI, defense, finance and entertainment applications. OSS utilizes the power of PCI Express, the latest GPU accelerators and NVMe flash cards to build award-winning systems, including many industry firsts, for OEMs and government customers. The company's innovative hardware and Ion Accelerator Software offers exceptional performance and unparalleled scalability. OSS products are available directly, through global distributors, or via its SkyScale cloud services. For more information, go to www.onestopsystems.com.

Forward-Looking Statements
One Stop Systems (OSS) cautions you that statements in this press release that are not a description of historical facts are forward-looking statements. These statements are based on the company's current beliefs and expectations. These forward-looking statements include statements regarding the ability of OSS to continue to deliver superior solutions for high-performance computing and the features and performance of its product offerings, including the composable infrastructure solutions. The inclusion of forward-looking statements should not be regarded as a representation by One Stop Systems that any of our plans will be achieved. Actual results may differ from those set forth in this press release due to the risk and uncertainties inherent in our business, including, without limitation, risks associated with meeting and maintaining ISO certification standards and other risks described in our prior press releases and in our filings with the Securities and Exchange Commission (SEC), including under the heading "Risk Factors" in our Annual Report on Form 10-K and any subsequent filings with the SEC. You are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date hereof, and we undertake no obligation to revise or update this press release to reflect events or circumstances after the date hereof. All forward-looking statements are qualified in their entirety by this cautionary statement, which is made under the safe harbor provisions of the Private Securities Litigation Reform Act of 1995.

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