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Press Release

RSC receives Intel HPC Data Center Specialist status

Russian RSC Group received the elite HPC Data Center Specialist partner status from Intel Corporation which confirms very high level competence of company’s employees and its business experience in development and deployment of HPC solutions based on Intel server products.

Moscow, July 5, 2016 — RSC Group, the leading developer and system integrator of innovative solutions for high-performance computing (HPC) segment and Data Centers in Russia and CIS, Group received the elite HPC Data Center Specialist partner status from Intel Corporation which confirms very high level competence of company’s employees and its business experience in development and deployment of HPC solutions based on Intel server products – Intel® Xeon Phi™ and Intel® Xeon® E5-2600 processor families, Intel® Server Boards, Intel® SSDs and high-speed interconnect Intel® Omni-Path fabric. Just 12 companies in EMEA region have received such recognition while only 35 Intel partners have got it worldwide.

RSC also participates in Intel Technology Provider Program at Platinum level and Intel Fabric Builders Program.

RSC demonstrated a new generation of its high performance, scalable and energy-efficient RSC Tornado solution with direct liquid cooling based on the newest multi-core Intel® Xeon Phi™ 7200 processor (previously code named as Knights Landing) at ISC’16 international conference and exhibition in Germany in June. New RSC solution has improved footprint and computing density (by 2x up to 528 Tflops per cabinet), high energy efficiency and provides stable operation of computing nodes in “hot water” mode at +63 °C cooling agent temperature at node inputs. This confirms leading position of the company in the field of bringing the latest technologies for global supercomputer industry to the market and meeting growing customer demands.

RSC Tornado cluster solution can also be implemented with Intel® Xeon® E5-2600 v4 server processors (including high-end model Intel® Xeon® E5-2699 v4)
providing high computing density – 237 Teraflops in a standard 42U (80x80x200 cm) cabinet.

Innovative management and monitoring system of RSC solutions for high-performance computing also provides high availability, resistance to failures and ease of use. It can be used to manage single nodes and the entire solution, including infrastructure components. All elements of the system (computing nodes, power supplies, hydraulic regulation modules, etc.) have an integrated management module providing broad capabilities for detailed telemetry and flexible management. Cabinet design supports replacement of computing nodes, power supplies and hydraulic regulation modules (with redundancy) in hot-swap mode without interruption of system operation. Most components of the system (such as computing nodes, power supplies, network and infrastructure components, etc.) are software-defined, and this significantly simplifies and speeds up initial deployment, maintenance and future upgrades of the system. Liquid cooling of all components ensures their longevity.

Latest innovative approaches in new generation of RSC Tornado cluster solution enabled reduction of infrastructure costs within the scope of computing system development and provided capabilities for more flexible upgrades of single nodes and the entire system.

Therefore, RSC solutions for high-performance computing keep setting de facto high industry standards of physical and computing density, energy efficiency, reliability, availability and manageability.

Russian customers use solutions based on RSC Tornado and RSC PetaStream supercomputer architectures with liquid cooling since 2009 and 2013 accordingly. These solutions are installed and actively used for modeling and calculation of a broad range of scientific, research and industrial tasks by the St. Petersburg Polytechnic University named after Peter the Great (SPbPU), Joint Supercomputer Center of the Russian Academy of Sciences (JSCC RAS), South Ural State University (SUSU), Moscow Physics and Technology Institute (MIPT), Russian Weather Forecast Agency (Roshydromet) and other customers from different vertical industries.

**About RSC Group**

RSC group is the leading developer and system integrator of turnkey new generation solutions for high-performance computing (HPC) segment and data centers in Russia and CIS based on Intel architectures, innovative liquid cooling technologies and a number of its own know-hows. RSC has the potential to create the most energy efficient solutions with record-breaking power usage effectiveness (PUE), the highest computing density in the industry with standard x86-based processors, to use fully "green" design, provide the highest solution reliability, noise-free operation of computing modules, 100% compatibility and guaranteed scalability with unmatched low cost of ownership and low power consumption. RSC specialists also have the experience of developing and implementing an integrated software stack of solutions to improve work efficiency and application of supercomputer systems from system software to vertically oriented platforms based on cloud computing technologies.

RSC participates in Intel® Technology Provider Program at Platinum level and Intel® Fabric Builders Program has been recognized as Intel® HPC Data Center Specialist. Performance and scalability of solutions based on RSC PetaStream and RSC Tornado architectures are Intel® Cluster Ready certified.

For more information see company web-site [www.rscgroup.ru](http://www.rscgroup.ru).

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