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## Storage-on-demand: storage and compute united. RSC Tornado hyper-converged solution for data processing

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A continuous growth of compute power and amount of data for processing demands a proportional growth of storage system performance and capacity. However traditional ways to scale storage systems are expensive and inflexible, thus we need to look for new approaches. Upon rethinking the datacenter architecture for data processing RSC came up with an idea to converge compute and storage systems. We present our hyper-converged system, a unified solution that is adaptive to storage and compute requirements, which provides its users with top rank performance and flexibility. We will talk about our new hardware appliances with an integrated storage subsystem and software-defined methods to build and manage high performance clusters on demand. The efficiency of the system enables the new JINR supercomputer to rank 9th in the io500 list.

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