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Pedraforca Cluster to be First to combine ARM CPUs, GPUs, and InfiniBand

Wednesday, 12 June 2013 06:47 insideHPC

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Today the Barcelona Supercomputing Center ([BSC](#)) announced plans to deploy its next-gen ARM prototype cluster for HPC in July. Powered by ARM Cortex-A9, Nvidia Tesla K20 GPUs, and Mellanox QDR InfiniBand, the hybrid supercomputer will be named Pedraforca.

By using InfiniBand, Pedraforca enables direct GPU-to-GPU communication through [RDMA](#) on ARM. It features a low-power Nvidia Tegra® 3 (4-core Cortex-A9) to run the operating system and drive both the Tesla K20 accelerator and the QDR InfiniBand at the minimum power consumption.

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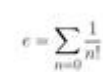
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