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GPU Acceleration Benefits for Scientific Applications

Tuesday, August 27, 2013 11:30 AM (40 minutes)

Computational researchers, scientists and engineers are rapidly shifting to computing solutions running on GPUs as this offers significant advantages in performance and energy efficiency.

This presentation will provide a short overview about GPU Computing and NVIDIA's parallel computing platform. It will show how features of the latest Kepler GPU architecture (eg. Hyper-Q, GPU-aware MPI and GPUDirect RDMA) improve the performance, scalability and GPU utilization of scientific applications. In addition an outlook about future GPU developments will be presented.

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Track Classification: Effective programming and multi-core computing