

Benchmarking current PC server hardware

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HEP-SPEC06 is the standard measurement for computing power in the LCG community. The computing requirements of groups like Lattice QCD at DESY need specialized benchmarks to evaluate new hardware. The theoretical particle physics group uses the form benchmark, which solves symbolical equations. The DD-HMC and the Chroma benchmarks include kernels of high-performance parallel Lattice QCD applications. Both parallel benchmarks were run on the up to 8 cores of a compute node. The three mentioned benchmarks were used to evaluate the current server hardware with the latest CPUs by Intel and AMD.

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