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Improving OpenMP scaling using openssl

Wednesday 10 October 2018 16:10 (20 minutes)

Scaling an OpenMP or MPI application on modern TurboBoost-enabled CPUs is getting harder and harder. Using some simple 'openssl' commands, however, it is possible to adjust OpenMP benchmarking results to correct for the TurboBoost frequencies of modern Intel and AMD CPUs. In this talk I will explain how to achieve better OpenMP scaling numbers and will show how a non-root user can determine other performance characteristics of a CPU.

Desired length

15 min

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