High Performance Computing (HPC) Needs High Performing Technology

Introducing 4th Gen Intel® Xeon® Scalable Processors
Advanced Capabilities Based on Built-In Accelerators

- UP TO 60 CORES per socket
- Higher performance vs. prior gen
- HPL

- UP TO 8 CHANNELS per socket
- Up to 50% increase vs. prior gen
- HPL

- UP TO 80 LANES
- PCIe 5.0 per socket
- Increase I/O capacity vs. prior gen
- HPL

Intel® HPC Engines

- Intel® Advanced Vector Extensions 512 (Intel® AVX-512)
- Optimize data processing per clock cycle

- Intel® QuickAssist Technology (Intel® QAT)
- Accelerates encryption and data compression operations

Intel contributes to the development of benchmarks by participating in, sponsoring, and/or contributing technical support to various benchmarking groups, including the BenchmarkXPRT Development Community administered by Anelastic and the High-Performance Linpack (HPL) benchmarks developed by Jack Dongarra at the University of Tennessee. Performance varies by use, configuration and other factors. Learn more at intel.com/processorclaims. Performance results are based on testing as of dates shown in configurations and may not reflect all publicly available updates.

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