Fuel Your Workflow

Optimized in a single-socket solution for advanced professionals, workstations fueled by new Intel Xeon W-3300 processors are designed for heavily threaded, I/O-intensive workloads.

Designed for workloads in architecture, engineering, and construction (AEC), media and entertainment (M&E), and machine learning/artificial intelligence (AI), **Intel Xeon W-3300 processors** are optimized to deliver outstanding performance with expanded platform capabilities for advanced workstation professionals in a single-socket solution.

Outstanding performance for intense workloads

Revamped silicon design enables hardware and software efficiency for next-level performance.

Up to 45% faster multi-threaded performance in Cinema 4D[1]

With up to **45% faster multi-threaded performance** in Cinema 4D and **20% faster video editing and encoding performance** in Adobe Premiere Pro, deliver game-changing media and entertainment gains vs. the prior generation.[1,2]

Up to **38 cores** Up to **76 threads**

Accelerate CPU-based visualization, simulation, and rendering with **up to 38 cores and 76 threads** in a single-socket solution.

Up to **4.0GHz** frequency

With up to 4.0GHz single-core frequency, power your complex calculations and tackle single-threaded tasks with ease.

Built for large datasets

Trust in Intel's enterprise-grade expanded platform capabilities to get more work done, faster.

Up to **2.5X maximum memory support**[3]

Enable tomorrow's workloads with expanded memory capacity, supporting **up to 4TB** of DDR4 memory at 3200MHz.[4]

Up to **64 CPU PCIe Gen 4 lanes**

Up to 64 CPU PCIe Gen 4 lanes increase bandwidth and flexibility for next-gen storage, acceleration, graphics, and networking.

Built-in Intel Deep Learning Boost with INT8 (VNNI) drives up to **3X better** AI performance[5]

Extend Intel VNNI to accelerate AI and machine learning inference performance with **Intel Deep Learning Boost with INT8 (VNNI)**.[5]

Reliable and enhanced data integrity

Protect your work with professional-grade features designed to reduce errors and keep systems up and running during data-intensive calculations.

1 in 3 systems have at least 1 correctable memory error a year[6]

Intel Xeon W-3300 processors support Error-Correcting Code (ECC) Memory that augments system memory to detect and correct errors, ensuring the integrity of essential data without interruption of workflows.

High-speed I/O lanes with increased port flexibility

Enhanced platform and data integrity with built-in **reliability, availability, and serviceability (RAS) technology** to support system up-time.

Drive business productivity across stationary form factors with new Intel Xeon W-3300 processors.

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Performance results are based on testing as of dates shown in configurations and may not reflect all publicly available updates. See backup for configuration details. No product or component can be absolutely secure.
Your costs and results may vary.
Intel technologies may require enabled hardware, software or service activation.
1. Up to 45% faster multi-threaded performance in Cinema 4D based on SPECworkstation™ 3 v3.1 Media and Entertainment score results on Intel Xeon W-3375 processor vs. Intel Xeon W-3275 processor.
2. Up to 20% faster video editing and encoding in Adobe Premiere Pro based on Adobe Premiere Pro (2021) 15.0 – Standard score results on Intel Xeon W-3375 processor vs. Intel Xeon W-3275 processor.
3. Intel Xeon W-3300 CPU: 8 channels, 4TB (2DPC) vs. Intel Xeon W-3200 CPU: 6 channels 1.5TB (2DPC).
4. Up to 4TB of total system memory support using LRDIMM. Intel Xeon W-3300 processors support both RDIMM and LRDIMM memory.
5. Compared to systems without Intel DL Boost. Intel DL Boost 'Up To 3X Average Inference Performance Gains': As measured by the geo mean across multiple deep learning framework workloads (Apache MXNet, TensorFlow, PyTorch, and Caffe). Results for 11th Gen Intel Core desktop processors have been estimated based on measured data comparing 2-socket Intel Xeon Platinum 8280 processor using 8-bit integer operations with Intel Deep Learning Boost on ResNet-50 vs. 2-socket Intel Xeon Platinum 8180 processor using 32-bit floating point operations. Test done by Intel as of 3/1/2019.
6. Source: "DRAM Errors in the Wild: A Large-Scale Field Study." www.cs.toronto.edu/%7Ebianca/papers/sigmetrics09.pdf