INTEL® XEON® W-2200 PROCESSORS LAUNCH VIDEO
CLAIMS, NOTICES, DISCLAIMERS, CONFIGURATIONS, & WORKLOAD DESCRIPTIONS

Embargoed until October 7, 2019 at 6am Pacific Time
NOTICES AND DISCLAIMERS

All information provided here is subject to change without notice. Contact your Intel representative to obtain the latest Intel product specifications, roadmaps, and related information.

Performance results are based on testing as of the date set forth in the configurations and may not reflect all publicly available security updates. See configuration disclosure for details. No product or component can be absolutely secure.

Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors. Performance tests, such as SYSmark® and MobileMark®, are measured using specific computer systems, components, software, operations and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products. For more complete information about performance and benchmark results, visit intel.com/benchmarks.

Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software or service activation. Performance varies depending on system configuration. No product or component can be absolutely secure. Check with your system manufacturer or retailer or learn more at intel.com.

Optimization Notice: Intel's compilers may or may not optimize to the same degree for non-Intel microprocessors for optimizations that are not unique to Intel microprocessors. These optimizations include SSE2, SSE3, and SSSE3 instruction sets and other optimizations. Intel does not guarantee the availability, functionality, or effectiveness of any optimization on microprocessors not manufactured by Intel. Microprocessor-dependent optimizations in this product are intended for use with Intel microprocessors. Certain optimizations not specific to Intel microarchitecture are reserved for Intel microprocessors. Please refer to the applicable product User and Reference Guides for more information regarding the specific instruction sets covered by this notice. Notice Revision #20110804.

Intel® Advanced Vector Extensions (Intel® AVX)* provides higher throughput to certain processor operations. Due to varying processor power characteristics, utilizing AVX instructions may cause a) some parts to operate at less than the rated frequency and b) some parts with Intel® Turbo Boost Technology 2.0 to not achieve any or maximum turbo frequencies. Performance varies depending on hardware, software, and system configuration and you can learn more at http://www.intel.com/go/turbo.

Intel processors of the same SKU may vary in frequency or power as a result of natural variability in the production process.

© Intel Corporation. Intel, the Intel logo, and other Intel marks are trademarks of Intel Corporation or its subsidiaries. Other names and brands may be claimed as the property of others.
## PERFORMANCE CLAIMS

<table>
<thead>
<tr>
<th>CLAIM</th>
<th>DISCLAIMER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 2X faster 3D architectural model rendering vs. a 3 yr. old workstation</td>
<td>As measured by Autodesk Revit® 3D architectural model rendering workload comparing Intel® Xeon® W-2295 vs. Intel® Xeon® E5-1680 v4</td>
</tr>
<tr>
<td>Up to 97% faster 4K video editing vs. a 3 yr. old workstation</td>
<td>As measured by Adobe Premiere Pro® 4K video editing workload comparing Intel® Xeon® W-2295 vs. Intel® Xeon® E5-1680 v4</td>
</tr>
<tr>
<td>Up to 2.1X faster game development vs. a 3 yr. old workstation</td>
<td>As measured by Unreal Engine® game development workload comparing Intel® Xeon® W-2295 vs. Intel® Xeon® E5-1680 v4</td>
</tr>
</tbody>
</table>

The above is preliminary performance data based on pre-production components. For more complete information about performance and benchmark results, visit [intel.com/benchmarks](http://intel.com/benchmarks). Performance results are based on testing as of the date set forth in the configurations and may not reflect all publicly available security updates. See configuration disclosure for details. No product or component can be absolutely secure. Embargoed until October 7, 2019 at 6am Pacific Time.
Configurations

Test done by Intel as of 9/23/19:


- Intel® Xeon® E5-1680v4 Processor, PL1=140W TDP, 8C16T, Turbo up to 4.0GHz, Motherboard: ASUS Z-10PA, Motherboard Type: Production, Graphics: NVIDIA QUADRO P2000, Gfx version: 431.7, Memory: 4x32GB DDR4 2400, Storage: 1TB Intel Optane SSD 905P, OS: Windows® 10 Pro 1903 v295 19H1(RS6), BIOS Version 3801
**WORKLOAD DESCRIPTIONS**

Adobe Premiere Pro* 4K Video Editing Workload: This workload measures the time it takes to export the Premiere Timeline to 4K AVC h.264 video using SW encoding. The project "PPCS" contains seven clips totaling 2 minute and 21 seconds of 4K H.264 MP4 footage recorded at a bitrate of approximately 80 Mbps. The input file sizes total 1.90 GB. The video stream is 3840x2160 (4K) in H.264 format with a framerate of 29.97 FPS. The audio stream is 1536 Kbps, 48.0 KHz, 16 bit Stereo in WAV format. The performance test measures the time to export the entire timeline to a 4K H.264 MP4 format. The output is a high quality 4K video file.

Autodesk Revit* 3D Architectural Model Rendering Workload: This workload measures the time it takes Autodesk Revit to render an architectural model. This workload uses only CPU for the rendering.

Unreal Engine Game Development Workload: This workload measures the time to build “Production” quality lighting for a demo scene.