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THE ULTIMATE WORKSTATIONS
FUELED BY INTEL® XEON® PROCESSORS

Data Center Product Marketing
Intel Data Center Group

Content Revision Date: 11 July 2018

INTEL® XEON® SCALABLE PROCESSORS
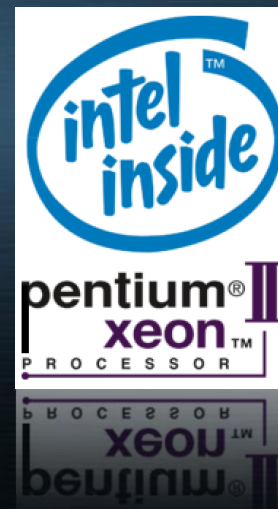INTEL® XEON® W PROCESSORS
INTEL® XEON® E PROCESSORS

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THE ULTIMATE WORKSTATIONS

INTEL® XEON® SCALABLE PROCESSOR
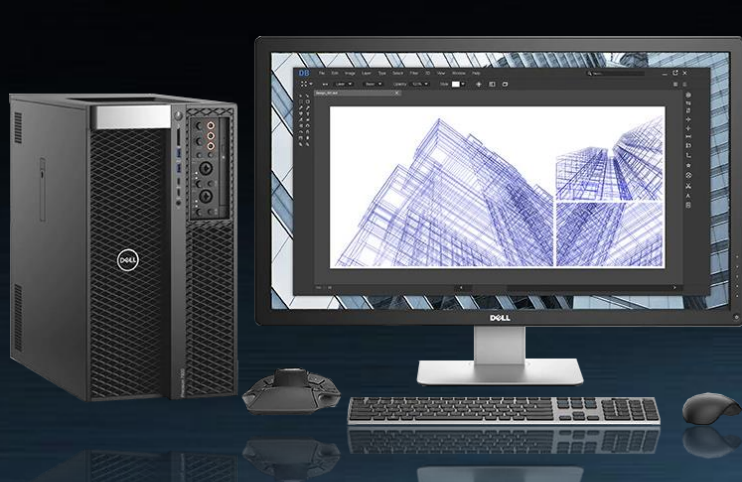## BREAKTHROUGH PERFORMANCE FOR EXPERT WORKSTATIONS

INTEL® XEON® W PROCESSOR
PERFORMANCE OPTIMIZED FOR MAINSTREAM WORKSTATIONS

NEW INTEL® XEON® E PROCESSOR
ESSENTIAL PERFORMANCE AND VISUALS FOR ENTRY WORKSTATIONS

FAST FORWARD TO YOUR <NEXT> CREATION

DELL* PRECISION 7910 WORKSTATION

HP* Z8 G4 WORKSTATION

LENOVO* THINKSTATION P920 WORKSTATION

BREAKTHROUGH PERFORMANCE FOR EXPERT WORKSTATIONS
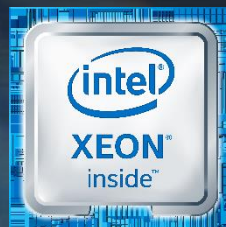
THE ULTIMATE WORKSTATIONS

UP TO 1.55X FASTER[1]

vs. 2016 Dual-Socket Intel® Xeon® E5-2600 v4 Processors

intel XEON PLATINUM inside™

INTEL® XEON® SCALABLE PROCESSORS

UP TO 1.45X FASTER[2]

vs. 2016 Intel® Xeon® E5-1600 v4 Processor

intel XEON inside™

INTEL® XEON® W PROCESSORS

UP TO 1.36X FASTER[3]

vs. 2017 Intel® Xeon® E3-1200 v6 Processor

intel XEON inside™

INTEL® XEON® E PROCESSORS

WORKSTATION LANDSCAPE

EXPERT

Breakthrough performance for real-time design, modeling, content creation and insights

INTEL® XEON® SCALABLE PROCESSOR

MAINSTREAM

Performance optimized for increasing workload demands

INTEL® XEON® W-2100 PROCESSOR

ENTRY

Essential performance and visuals

INTEL® XEON® E-2100 PROCESSOR

MOBILE

Creativity and collaboration from anywhere

INTEL® XEON® E-2100M PROCESSOR

WORKSTATION OPPORTUNITY BY VERTICAL

ENGINEERING　　**ENTERTAINMENT**　　**FINANCE**　　**ENERGY**　　**EDUCATION**　　**HEALTHCARE**
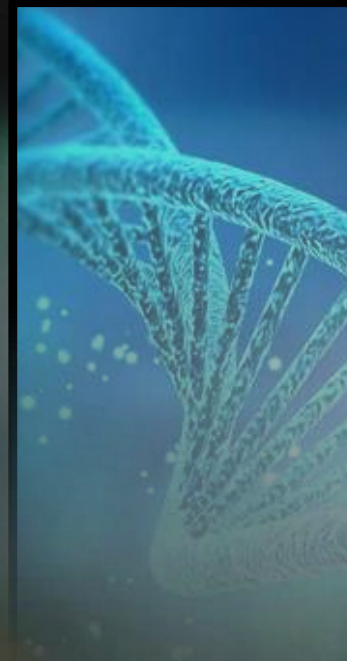
ESSENTIAL PERFORMANCE AND VISUALS FOR ENTRY WORKSTATIONS

UP TO **1.73X** PERFORMANCE IMPROVEMENT 4-YEAR REFRESH[4]

UP TO **1.36X** PERFORMANCE IMPROVEMENT GEN-ON-GEN[3]

UP TO **4.7** GHZ WITH INTEL® **TURBO** BOOST TECHNOLOGY 2.0

UP TO **64 GB** DDR4 2666 MHZ

UP TO **6 CORES**

UP TO **12 THREADS**

ESSENTIAL PERFORMANCE AND VISUALS WITH EXPANDABILITY, RELIABILITY, SECURITY[†]

AVAILABLE IN SINGLE-SOCKET CONFIGURATION ONLY

New Intel® Xeon® E Processor

INTEL® XEON® E PROCESSOR

Intel® Xeon® E Processor

intel

- Intel® Hyper-Threading Technology
- Intel® Virtualization Technology
- Intel® Turbo Boost Technology 2.0
- Intel® Advanced Vector Extensions
- Supports DDR4 ECC Memory
- Three-Year Limited Warranty

For information about Intel's system integrator program, visit www.intel.com/reseller

For more information about Intel's processors, visit ark.intel.com

XEON E

intel XEON® inside™

intel XEON inside®

ENTRY WORKSTATION PERFORMANCE

UP TO 1.45X
FASTER FINANCIAL
SERVICES APPLICATIONS[5]
vs. 2017 Intel® Xeon® E3-1200 v6 Processor

UP TO 1.36X
COMPUTE INTENSIVE
APPLICATIONS[3]
vs. 2017 Intel® Xeon® E3-1200 v6 Processor

UP TO 1.45X
FASTER 3D MODELING &
ANIMATION APPLICATIONS[6]
vs. 2017 Intel® Xeon® E3-1200 v6 Processor

New Intel® Xeon® E Processor

intel® XEON inside®

(intel)

THE BEST VR EXPERIENCES RUN ON INTEL® XEON® PROCESSORS

- Today's professional quality virtual reality experiences offer an entirely new level of immersion, interactivity and creativity.

- Accelerate your creation and take control in an expansive virtual world with incredible visuals.

- Intel® Xeon® Scalable processors, Intel® Xeon® W processors and Intel® Xeon® E processors are professional quality VR ready and exceeds minimum processor specs for Oculus* and HTC*.

oculus

VIVE
htc | STEAM VR
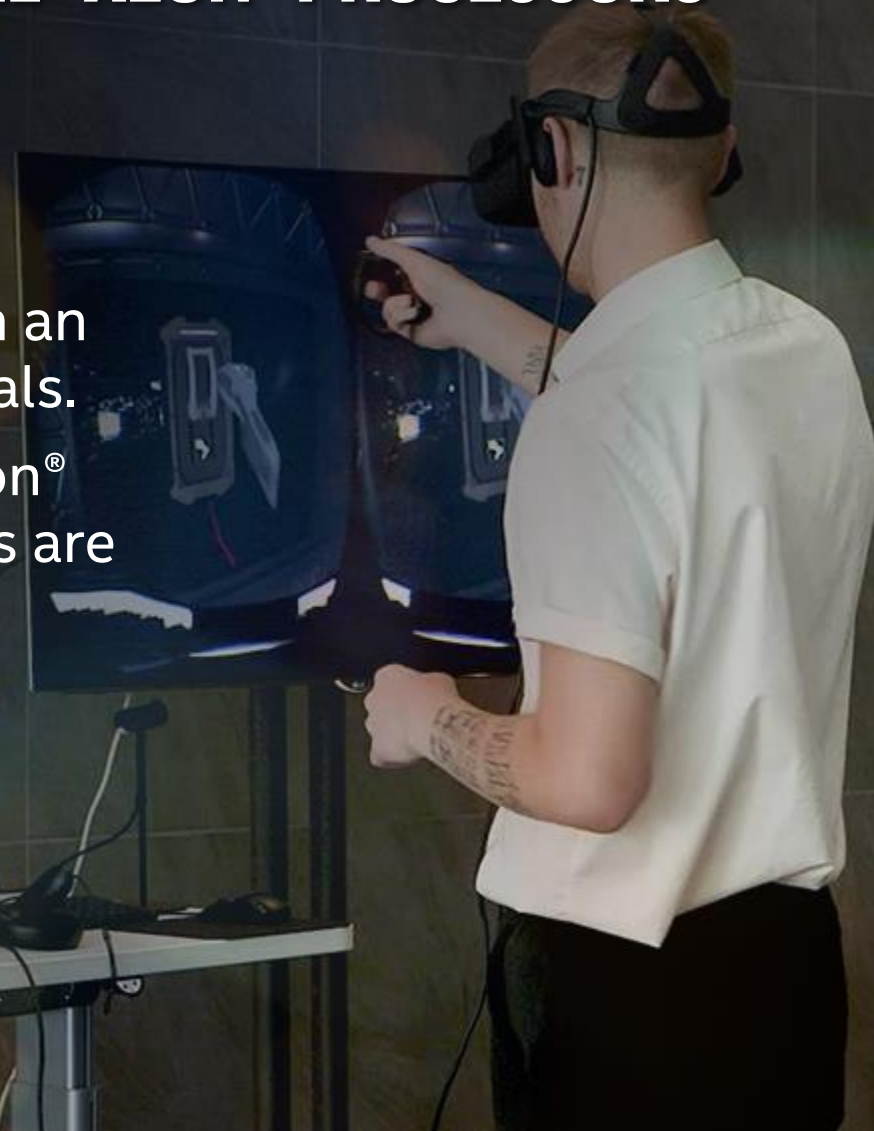
WORKSTATION MEGATASKING PERFORMANCE

TURNING SIX 4K VIDEO CLIPS INTO ONE 4K VR VIDEO

2017 INTEL® XEON® E3-1275 V6 PROCESSOR

DECODE + STITCH + RENDER + ENCODE 4K VIDEO
6 MINUTES, 8 SECONDS

2018 INTEL® XEON® E-2176G PROCESSOR

DECODE + STITCH + RENDER + ENCODE 4K VIDEO
4 MINUTES, 39 SECONDS

PERFORMING MULTIPLE CPU INTENSIVE WORKSTATION TASKS

UP TO **24%**

TIME SAVINGS[7]

vs. 2017 Intel® Xeon® E3-1275 v6 Processor

New Intel® Xeon® E Processor

intel XEON inside®

THE ULTIMATE WORKSTATIONS

INTEL® XEON® SCALABLE PROCESSOR
BREAKTHROUGH PERFORMANCE FOR EXPERT WORKSTATIONS

INTEL® XEON® W PROCESSOR
PERFORMANCE OPTIMIZED FOR MAINSTREAM WORKSTATIONS

INTEL® XEON® E PROCESSOR
ESSENTIAL PERFORMANCE AND VISUALS FOR ENTRY WORKSTATIONS

INTEL® XEON® PROCESSOR-BASED WORKSTATIONS: PERFORMANCE. PROFESSIONAL-GRADE. BUILT FOR TODAY'S PROS.

NEW INTEL® XEON® E PROCESSOR

Improvements in processor speed, enhanced memory capabilities, advanced hardware-enhanced security and reliability features available with support for 4K UHD Intel® graphics technology.

- Up to 6 cores, 12 threads
- Up to 64GB DDR4 ECC 2666 MHz memory
- Intel® Hyper-Threading Technology (Intel® HT Technology)
- Intel® Turbo Boost Technology 2.0
- Intel® Advanced Vector Extensions 2.0
- Support for LGA 1151 socket
- Up to 40 PCI Express 3.0 lanes
- Support for USB* 3.1 Gen 2 (Up to 10 Gbps)
- Support for Thunderbolt™ 3.0 technology
- Intel® vPro™ Technology
- Enhanced Intel® Software Guard Extensions (Intel® SGX)
- Available with Intel® UHD Graphics P630
- Support for Intel® Optane™ memory
- Support for 1 Gigabit Intel® Ethernet and Intel® Wireless-AC

Not a comprehensive of all features and capabilities.

NEW INTEL® XEON® E PROCESSORS

ESSENTIAL PERFORMANCE AND VISUALS FOR ENTRY WORKSTATIONS

Up to 16 Lanes PCI Express* 3.0

Intel® UHD Graphics P630

Up to Two Channels DDR4 2666 with ECC

DMI

PCI Express* 3.0

USB* 3.1 Gen 2

SATA Gen 3

Support for Intel® Ethernet and Intel® Wireless AC

Intel® vPro™ Technology

Intel® Optane™ memory support

Intel® Rapid Storage Technology PCIe* 3.0

Thunderbolt™ 3.0 support
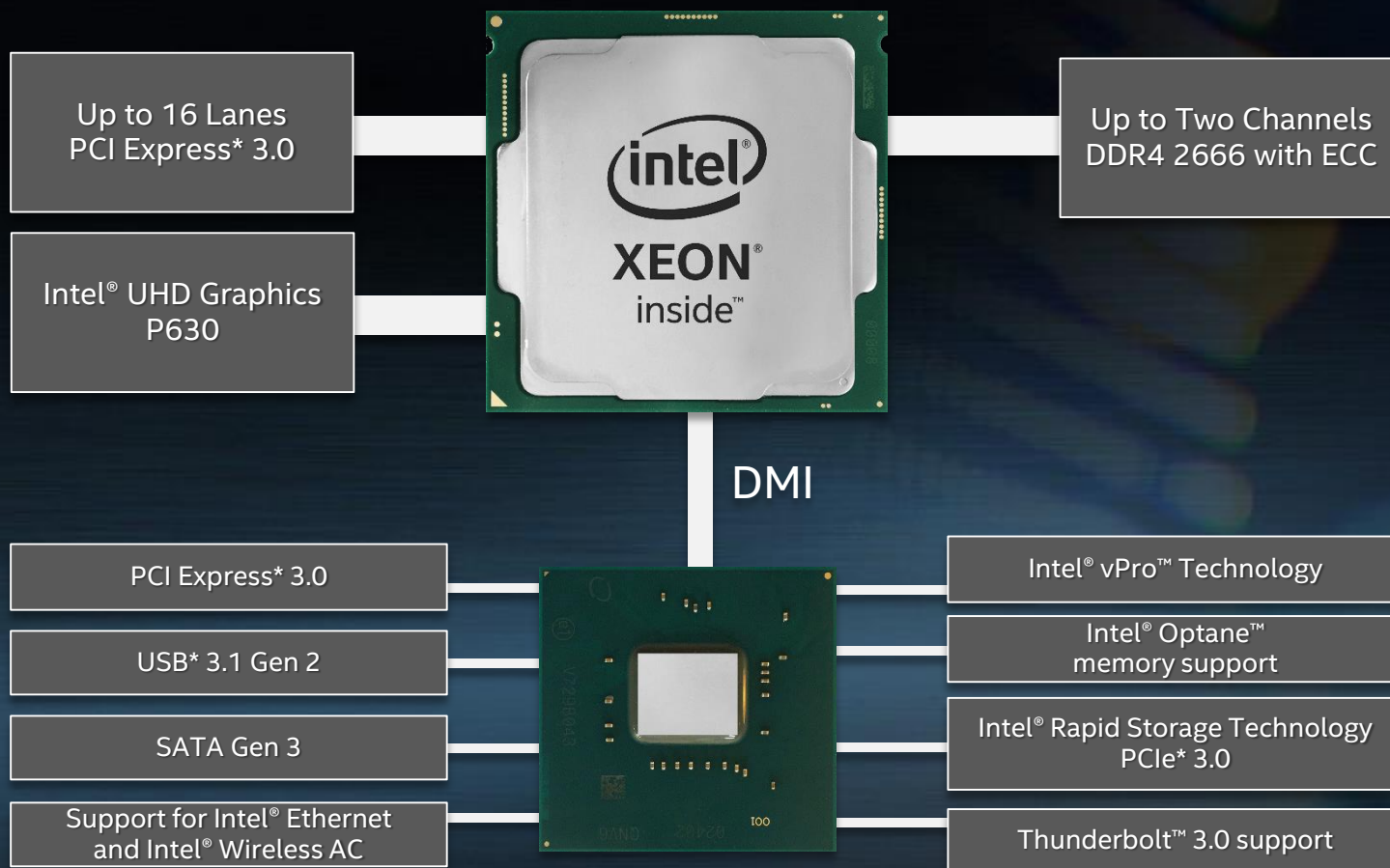
*Processor, chipset and diagram provided for illustration purposes only.
Diagram and table are not a comprehensive of all features and capabilities.*

Processor Manufacturing Process	Intel's 14nm process technology
Maximum Core Count Supported	6
Maximum Base Frequency Supported	3.8 GHz
Maximum Intel® Turbo Boost Technology 2.0 Frequency Supported	4.7 GHz
Processor Cache Memory Support	Up to 12MB Intel® Smart Cache
Processor Performance Support	Intel® Turbo Boost 2.0 Technology, Intel® Hyper-Threading Technology (Intel® HT)
Processor Graphics Support	Available with integrated Intel® UHD Graphics P630 (Maximum Video Memory up to 64GB), supporting up to 3 display outputs)
Maximum Number of Processor Sockets Supported	One Socket
Thermal Design Point (TDP)	Up to 95 Watts
Socket Type	LGA-1151 Socket
System Memory Support	2 channels of DDR4 ECC 2666 MHz 2 DPC
Maximum System Memory Supported	Up to 64GB
Supported Chipset	Intel® C246 Series Workstation Chipset
I/O	PCI Express* 3.0 – Up to 40 lanes (CPU + Chipset) USB* 3.1 – Up to 6 ports USB* 3.0 – Up to 10 ports SATA* 3.0 – Up to 8 ports DMI – Up to 4 lanes, Gen 3
Intel® Manageability Engine (Intel® ME)	Intel® ME v12 with Intel® Active Management Technology (Intel® AMT) and Intel® vPro™ Technology
Intel® Rapid Storage Technology	Intel® Rapid Storage Technology PCIe* 3.0

AVAILABLE IN SINGLE-SOCKET CONFIGURATION ONLY

NEW INTEL® XEON® E PROCESSORS

Processor Number[1]	Base Clock Speed (GHz)	Intel® Turbo Boost Technology 2.0 Frequency (GHz)	Cores/Threads	Intel® UHD Graphics 630	Cache (MB)	PCI Express 3.0 Lanes (CPU + Chipset)	Memory Support	Thermal Design Power (TDP)	Socket (LGA)	Recommended Customer Pricing ($ US Dollars)
Intel® Xeon® E-2186G Processor	3.8	4.7	6/12	Yes	12MB SmartCache	40	Two channels DDR4-2666	95W	1151	$450
Intel® Xeon® E-2176G Processor	3.7	4.7	6/12	Yes	12MB SmartCache	40	Two channels DDR4-2666	80W	1151	$362
Intel® Xeon® E-2174G Processor	3.8	4.7	4/8	Yes	8MB SmartCache	40	Two channels DDR4-2666	71W	1151	$328
Intel® Xeon® E-2146G Processor	3.5	4.5	6/12	Yes	12MB SmartCache	40	Two channels DDR4-2666	80W	1151	$311
Intel® Xeon® E-2144G Processor	3.6	4.5	4/8	Yes	8MB SmartCache	40	Two channels DDR4-2666	71W	1151	$272
Intel® Xeon® E-2136 Processor	3.3	4.5	6/12	No	12MB SmartCache	40	Two channels DDR4-2666	80W	1151	$284
Intel® Xeon® E-2134 Processor	3.5	4.5	4/8	No	8MB SmartCache	40	Two channels DDR4-2666	71W	1151	$250
Intel® Xeon® E-2126G Processor*	3.3	4.5	6/6	Yes	12MB SmartCache	40	Two channels DDR4-2666	80W	1151	$255
Intel® Xeon® E-2124G Processor*	3.4	4.5	4/4	Yes	8MB SmartCache	40	Two channels DDR4-2666	71W	1151	$213
Intel® Xeon® E-2124 Processor*	3.3	4.3	4/4	No	8MB SmartCache	40	Two channels DDR4-2666	71W	1151	$193

See intel.com/products/processor_number for details. *Intel® Xeon® E-2126G, E-2124G and E-2124 processors do not support Intel® Hyper-Threading Technology (Intel® HT technology).
Processor details, features, cost and availability are subject to change without notice. Please visit intel.com/xeone for the latest product information.

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No computer system can be absolutely secure.

PERFORMANCE BENCHMARK DISCLOSURES [2/3]

1: Up to 1.55X faster vs. 2016 Dual-Socket Intel® Xeon® E5-2600 v4 Processors. Configuration: Estimates based on Intel internal testing as of June 2018 on SPECint*_rate_base2006 : 1-Node, 2 x Intel® Xeon® Platinum 8180M Processor on Wolf Pass SKX with 384 GB Total Memory on Red Hat Enterprise Linux* 7.4 using Benchmark software: SPEC CPU® 2017, Compiler: Intel® Compiler IC18 OEM, Optimized libraries: AVX512. Data Source: Request Number: 40, Benchmark: SPECrate*2017_int_base (estimated), Score: 281 Higher is better vs. 1-Node, 2 x Intel® Xeon® Processor E5-2699 v4 on Wildcat Pass with 256 GB Total Memory on Red Hat Enterprise Linux* 7.4 using Benchmark software: SPEC CPU® 2017 v1.2, Optimized libraries: IC18.0_20170901, Other Software: MicroQuill SMART HEAP, Script / config files : xCORE-AVX2. Data Source: Request Number: 40, Benchmark: SPECrate*2017_int_base(estimated), Score: 181 Higher is better.

2: Up to 1.45X faster vs. 2016 Intel® Xeon® E5-1600 v4 Processor. Configuration: Estimates based on Intel internal testing as of June 2018 on 1x Intel® Xeon® W-2155 Processor, Platform: BSF, 4 x 32GB DDR4 2666MHz ,OS: Ubuntu 17.10 (Kernel 4.13.0-30-generic), Benchmark: SPECrate*2017_int_base (Estimated), Compiler: ICC 18.0.2,BIOS: BSFSWSR1.R00.X060.B42.1802230717 02/23/2018, (uCode: 0x2000043), SNC enabled, IMC 2-way interleaving, Storage: SSD S3710 Series 400GB, Score: 70.5 vs 1x Intel® Xeon® Processor E5-1680 v4, Platform: Supermicro X10SRA, 4 x 32GB DDR4 2400MHz,OS: Ubuntu 17.10 (Kernel 4.13.0-35-generic), Benchmark: SPECrate*2017_int_base (Estimated), Compiler: ICC 18.0.2,BIOS: American Megatrends Inc. 2.1 03/29/2018, (uCode: 0xb00002a), Storage: SSD S3710 Series 800GB, Score: 48.4.

3: Up to 1.36X faster vs. 2017 Intel® Xeon® E3-1200 v6 Processor. Configuration: Estimates based on Intel internal testing as of June 2018 on 1x Intel® Xeon® E-2186G Processor, Platform: Moss Beach, 4 x 8GB DDR4 2666 ECC(32GB 2666MHz) ,OS: Ubuntu 17.10 (Kernel 4.13.0-35-generic) ,Benchmark: SPECrate2017_int_base (Estimated), Compiler: ICC 18.0.2,BIOS: CNLSE2R1.R00.X119.B54.1803131307, 03/13/2018 (uCode:0x84), Storage: SSD S3710 Series 800GB, Score: 40.9 compared to 1x Intel® Xeon® Processor E3-1285 v6, Platform: S1200SP, 4 x 8GB DDR4 2400MHz, OS: Ubuntu 17.10 (Kernel 4.13.0-35-generic) ,Benchmark: SPECrate2017_int_base (Estimated), Compiler: ICC 18.0.2,BIOS: S1200SP.86B.03.01.1029.012520180838 (uCode:0x84), Storage: SSD S3710 Series 800GB, Score: 29.9.

4: Up to 1.73X performance improvement vs. 4-year old entry workstation. Configuration: Estimates based on Intel internal testing as of June 2018 on 1x Intel® Xeon® E-2186G Processor, Platform: Moss Beach, 4 x 8GB DDR4 2666 ECC(32GB 2666MHz) ,OS: Ubuntu 17.10 (Kernel 4.13.0-35-generic) ,Benchmark: SPECrate*2017_fp_base (Estimated), Compiler: ICC 18.0.128,BIOS: CNLSE2R1.R00.X119.B54.1803131307, 03/13/2018 (uCode:0x84), Storage: SSD S3710 Series 800GB, Score: 35.3 compared to 1x Intel® Xeon® E3-1286v3 Processor Platform: S1200RP, 4 x 8GB DDR4 1600 (32GB 1600MHz) ,OS: Ubuntu 17.10 (Kernel 4.13.0-35-generic), Benchmark: SPECrate*2017_fp_base (Estimated), Compiler: ICC 18.0.0.128,BIOS: S1200RP.86B.03.04.0006.030520181328, 03/05/2018 (uCode:0x24), Storage: SSD S3710 Series 800GB, Score: 20.3.

PERFORMANCE BENCHMARK DISCLOSURES [3/3]

5: Up to 1.45X faster financial services applications vs. 2017 Intel® Xeon® E3-1200 v6 Processor. Configuration: Estimates based on Intel internal testing as of June 2018 on 1x-Intel® Xeon® E-2186G Processor, Platform: RVP, 4 x 8GB DDR4 2666 ECC(32GB 2666MHz) ,OS: Windows 10 Pro (RS3 1709 with Window updates KB4053577,KB4058043,KB4088785,KB4088776) ,Benchmark: Estimated Financial Services (Geomean) for SPECwpc, Compiler: ver. 2.1,BIOS: CNLSFWR1.R00.X118.B23.1803070743, 3/7/2018 (uCode 0x02), Storage: SSD 535 Series 480GB, Score: 2.15 (M&E), 1.91 (Product Dev), 1.84 (Life Sciences), 5.39 (Financial Services), 1.93 (Energy), and 1.17 (General Operations) compared to 1x Intel® Xeon® Processor E3-1285 v6, Platform: S1200SP, 4 x 8GB DDR4 2400MHz, OS: Windows 10 Pro (OS version 10.0.16299 N/A Build 16299 with Window updates KB4053577, KB4090914, KB4088785, KB4088776), Benchmark: Estimated Financial Services (Geomean) for SPECwpc, Compiler: ver. 2.1,BIOS: S1200SP.86B.03.01.1029.012520180838, 1/25/2018, Storage: SSD 535 Series 480GB, Score: 1.83 (M&E), 1.58 (Product Dev), 1.59 (Life Sciences), 3.7 (Financial Services), 1.56 (Energy), and 1.16 (General Operations).

6: Up to 1.45X faster 3D modeling and animation applications vs. 2017 Intel® Xeon® E3-1200 v6 Processor. Configuration: Estimates based on Intel internal testing as of June 2018 on 1x Intel® Xeon® E-2186G Processor, Platform: RVP, 4 x 8GB DDR4 2666 ECC(32GB 2666MHz) ,OS: Windows 10 Pro (RS3 1709 with Window updates KB4053577,KB4058043,KB4088785,KB4088776) ,Benchmark: Cinebench (Estimated), BIOS: CNLSFWR1.R00.X118.B23.1803070743, 3/7/2018 (uCode 0x02), Storage: SSD 535 Series 480GB, Score: 1396 (CPU(cb)) compared to 1x Intel® Xeon® Processor E3-1285 v6, Platform: S1200SP, 4 x 8GB DDR4 2400MHz,OS: Windows 10 Pro (OS version 10.0.16299 N/A Build 16299 with Window updates KB4053577, KB4090914, KB4088785, KB4088776), Benchmark: Cinebench (Estimated), BIOS: S1200SP.86B.03.01.1029.012520180838, 1/25/2018, Storage: SSD 535 Series 480GB, Score: 957 (CPU(cb)).

7: Up to 24 percent time savings vs. 2017 Intel® Xeon® E3-1200 v6 Processor. Configuration: Based on internal testing at Intel using 6 4k videos each 50 second clip, stitched and rendered on Autopano Video Pro 2.6.2 and then linear editing on Adobe Premiere Pro CC(Version 12.0, Build 224) and Adobe Media Encoder CC(Version 12.0, Build 202) on a system running Xeon E3: E3-1275v6(4 cores/8 thread, 3.8GHz, 73W) with Nvidia P2000, Intel 535 series 480GB SSD, 32GB (4 x 8GB DDR4 2400MT/s) and a Xeon-E: E-2176G(6 cores/12 threads, 3.7GHz, 80W), Nvidia P2000, Intel 535 series 480GB SSD, 32GB (4 x 8GB DDR4 2666 MT/s).

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