P4400 vs p4460

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CPUBoss Winner Much better 3DMark06 CPU score 1,897 vs 59.6 More than 31.8x best score 3DMark06 CPU Much lower typical energy consumption 28.44W vs 68.25W 2.4x typical energy consumption decrease Plus l2 cache per core 0.5 MB/core vs 0.25 MB/core 2x plus l2x cache per core Much lower annual cost of domestic energy $8.43/year vs.20.24/year 2.4x lower annual cost of domestic energy Much lower annual cost of commercial energy 30.4 $66/year vs. $73.58/year 2.4x annual drop in the cost of commercial energy Much better performance per dollar 4.26 pt/ $ vs. 0.67 pt / $6.2 times best performance per dollar Clock speed significantly higher 3.2 GHz vs. 2.2 GHz More than 6.2 X Clock speed much better geekbench 2 (32 bits) score 9,462 vs 1.955 More than 4.8x better geekbench 2 (32 bits) score much newer manufacturing process 22 nm vs 45 nm A manufacturing process Newer allows for a more powerful manufacturing process, even cooler operating processor has a built-in Yes vs. No a little common; A separate graphic adapter is not required to support virtualization Yes vs. No A common one; Increases Performance of Virtual Machines Much Better PassMark (Single core) score 1,946 vs 846 More than 2.2x best PassMark (Single core) score Much better performance per watt 9.64 pt/W vs 2.64 56 pt/W More 3.8 times best performance per watt Score passmark significantly best 6,664 vs. 1,282 Around 5.2 x Best Score PassMark Supports Trusted Computing Yes vs No A Common; Makes it safer and more reliable Later May, 2014 vs. October, 2009 Release Date More than 4 years later More cores 4 vs. 2 Twice as many cores; Run More Applications At a Time More Threads 4 vs. 2 Twice As Many Intel Pentium T4400 Threads Report a Correction Intel Core i5 4460 Report a VS Gaming Correction 85% Office 86% Workstation 70% Efficient Speed Effective Speed 85.4% Faster Efficient Speed.-20% 71.1% Memory Avg. Memory Latency 89.2 Pts -5% 85 Pts 1-Core Avg. Mixed single core speed 115 Pts Faster mono-core speed. Dual Core Mixed Speed 228 Pts Dual-core Speed Faster. Quad Core Mixed Speed 442 Pts Quad-core Speed much faster. Octa Core Mixed Speed 631 Pts Extremely Faster Octa-core Speed. Single Core Mixed Speed 122 Pts Single-core Speed OC Faster Faster Faster OC Faster. 4-Core OC Quad Core Mixed Speed 475 Pts Faster Maximum Speed OC Faster. Market share (lagging 30 days) 0.88% Much higher Market Share. -42% 0.62% Silver value 92.4% Better value. Note 90 % Plus populaire.+23% 73 % Prix de prix (score) 180 € Moins cher.+20% €224 Série CPU Architecture Coffee Lake Haswell Socket Motherboard Socket FCLGA1151 FCLGA1150 Graphiques intégrés UHD 63 0 HD 4600 Date de lancement Date de lancement Q4'17 Q2'14 Cache cache 9 Mo 6 Mo SmartCache Instruction Set Extensions Instructions Set Extensions SSE4.1/4.2, AVX2 SSE4.1/4.2, AVX 2.0 Lithographie Lithographie 14 nm 22 nm Prix recommandé Prix du client recommandé N/A $182.00 - $187.00 Max Turbo Frequency Max Turbo Fréquence 4.00 GHz 3.4 GHz Bus Speed Bus Speed 8 GT/s DMI3 5 GT/s DMI2 Spécification de la solution thermique Spécification de la solution thermique PCG 2015C (65W) PCG 2013D Taille maximale de la mémoire Taille de mémoire maximale (dépendante du type de mémoire) 64 Go 32 Go Types de mémoire Types de mémoire DDR4-2666 DDR3-1333/1600 , DDR3L-1333/1600 - 1.5V Graphics Processor - Intel® UHD Graphics 630 Intel® HD Graphics 4600 Graphics Max Dynamic Frequency Graphics Max Dynamic Frequency 1.05 GHz 1.1 GHz Graphics Video Max Memory Graphics Video Max Memory 64GB 2GB PCI Express Revision PCI Express Revision 3.0 Up to 3.0 CONFIGURATIONS PCI Express Configurations PCI Express - Up to 1x16 or 2x8 or 1x8-2x4 Up to 1x16, 2x8, 1x8-2x4 More Specs More Specifications PUBLICITY The i5-8400 is a competitively priced hex-core processor from Intel's 8th generation Core processor (Coffee Lake). With the release of the i5-8600K unlocked, this is the first time that six-core processors have been included in the i5 range. Like other Coffee Lake processors, the i5-8400 is based on an improved version of Intel's 14nm architecture that has featured in both Skylake and Kaby Lake. Early benchmarks reveal that for average quad core usage (most games use a maximum of four cores) the i5-8400 performs well above its pay category. It reaches quad core mixed speeds near Intel coming out 2017 $300 flagship, quad-core, 8 thread i7-7700k, which to date has been a big favorite for high-end game configurations. On paper, the i5-8400 has a basic clock of 2.8 GHz (Intel significantly minimizes the performance of this SKU by giving it a relatively low rated base clock), a base boost of 3.8 GHz (that's the actual base clock number that counts) and a single basic boost of 4 GHz. This compares reasonably well to the i5-8600K which has a basic clock of 3.6 GHz, any basic boost of 4.1 GHz and a single base boost of 4.3 GHz. The i5-8400 also features 9MB of L3 cache and a 65W energy-efficient TDP. Priced for less than $190, the i5-8400 offers fantastic value for money. Unfortunately, like other Coffee Lake processors, the i5-8400 will require a new card 300 series, and at the time of writing, the only version available is Intel's high-end Z370 which is not an ideal pairing for the i5-8400. Z-Series motherboards are designed to meet unlocked and overclockable Ks Cheaper 300 motherboard series will be available in 2018, when the 8400 will offer even better value for money. [Oct '17 CPUPro] MORE DETAILS The Intel Core i5-4460 is a slightly improved version of the 2013 Intel Haswell i5-4440. Comparison of the i5-4460 and i5-4440 shows that the only change is an increase in base and turbo frequencies from 3.4 to 3.5 GHz. In terms of effective speed the 4460 is exactly on an equal footing with the average of the top ten rated processor users, not a bad result for an i5. Thanks to its four cores, the 4460 is easily up to the face of the vast majority of desktop computing (e-mail, web browsing, word processing, etc.). In fact, this model is probably overpowering for the majority of users. Most users won't need the multi-core capabilities that the 4460 offers and will do better to choose a less powered and cheaper processor. [June '14 CPUPro] MORE DETAILs ADS Best Rated User Group Test Results - User sentiment trumps benchmarks for this comparison. Best value for money - Value for money is based on real-world performance. Fastest real speed - Real World Speed measures performance for typical consumers. How fast is your processor? (Bench your construction) Size your PC in less than a minute. Welcome to our freeware PC speed test tool. UserBenchmark will test your PC and compare the results to other users with the same components. You can quickly size your PC, identify hardware issues and explore the best upgrades. UserBenchmark of the Month Gaming Desktop ProGaming CPU GPU DISQUE DUR RAM USB How it works - Download and run UserBenchMark. - Cpu tests include: whole, floating and chain. - GPU tests include: six 3D game simulations. - Driving tests include: reading, writing, writing supported and MIXING IO. - Ram tests include: single/multi-core bandwidth and latency. - Reports are produced and presented on userbenchmark.com. - Identify the strongest components of your PC. - See the results of other users' speed tests. - Compare your components to current market leaders. - Explore your best upgrade options with a virtual PC generation. - Compare your in-game FPS to other users with your hardware. - Share your opinion by voting. Office 68% Efficient Speed Efficient Speed Speed 55.3% 71.1% Faster Efficient Speed. Memory Latency 80.5 Pts 85 Pts Memory Latency Slightly Lower. Single Core Mixed Speed 92.1 Pts -0% 91.7 Pts 2-Core Avg. Dual Core Mixed Speed Pts 180 Pts -3% 4-Core Avg. Quad Core Mixed Speed 177 Pts 331 Pts Quad-core speed extremely faster. Octa Core Mixed Speed 180 Pts 338 Pts Octa extremely faster-speed base. 2-Core OC Dual Core Mixed Speed 202 Pts 3% 196 Pts 4-Core OC Quad Core Mixed Speed 201 Pts 376 Pts Maximum Speed OC 376 very fast. 376 Pts OC Octa-core Speed extremely faster. Part de marché de marché (à la traîne 30 jours) 0,1 % 0,62 % Part de marché extrêmement plus élevée.+520% Valeur pour l'argent 80,5 % Meilleure valeur.+11% 72,5 % Évaluation utilisateur UBM Note de l'utilisateur 64 % 73 % Plus populaire.+14 % Prix de base (score) 61 € Beaucoup moins cher.+73 % € 224 Série CPU Architecture Skylake Haswell Socket Motherboard Socket FCLGA1151 FCLGA1150 Graphics Intégré HD 510 HD 4600 Date de lancement Date de lancement Q3'15 Q2'14 Cache Cache 3 Mo SmartCache 6 Mo SmartCache Instruction Set Extensions Instructions Set Extensions SSE4.1/4.2 SSE4.1/4.2, AVX 2.0 Options intégrées Options intégrées Disponibles Oui Pas de lithographie Lithographie 14 nm 22 nm Prix recommandé Prix du client 64,00 $ 182,00 $ - 187,00 $ Vitesse du bus Vitesse 8 GT/s DMI3 5 GT/s DMI2 Spécification de la solution thermique Spécification de la solution thermique PCG 2015C (65W) PCG 2013D Taille maximale de la mémoire Taille de mémoire maximale (dépendante du type de mémoire) 64 Go 32GB Memory Types Memory Types DDR4-1866/2133 , DDR3L-1333/1600 - 1.35V DDR3-1333/1600, Maximum memory bandwidth DDR3L-1333/1600 - 1.5 V Maximum memory bandwidth of 34.1GB/s 25.6GB/s ECC support memory by ECC memory - Yes No graphic processor Processor Graphics - Intel® HD Graphics 510 Intel® HD Graphics 4600 Graphics Output eDP/DP/HDMI/DVI eDP/DP/HDMI/VGA Graphics Max Dynamic Frequency Graphics Max Dynamic Frequency 1 GHz 1.1 GHz Graphics Video Max Memory Graphics Video Max Memory 64GB 2GB Graphics and IMC Lithography Graphics and IMC Lithography 14 nm 22 nm Turbo Boost Tech Intel® Turbo Boost Technology - No 2.0 Small Business Advantage Intel® Small Business Advantage No Yes OS Guard Intel® OS Guard No Yes PCI Express Revision PCI Express Revision 3.0 Up to 3.0 More Specs More Specs PUBLICITY The Intel Core i5-4460 is a slightly improved version of Intel 2013 Haswell i5-4440. 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(Bench your construction) Sizing your in less than a minute. Welcome to our freeware PC speed test tool. UserBenchmark will test your PC and compare the results to other users with the same components. You can quickly size your PC, identify hardware issues and explore the best upgrades. 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