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## High End CPUs - Intel vs AMD

This chart comparing high end CPUs is made using thousands of **PerformanceTest** benchmark results and is updated daily. These are the high end AMD and Intel CPUs are typically those found in newer computers. The chart below compares the performance of Intel Xeon CPUs, Intel Core i7 CPUs, AMD Phenom II CPUs and AMD Opterons with multiple cores. Intel processors vs AMD chips - find out which CPUs performance is best for your new gaming rig or server!

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### CPU Mark | Price Performance

(Click to select desired chart)

## PassMark - CPU Mark High End CPUs - Updated 26th of November 2015

		Price (USD)
Intel Xeon E5-2698 v3 @ 2.30GHz		22,309 \$3,745.49*
Intel Xeon E5-2697 v3 @ 2.60GHz		22,147 \$2,710.51

Intel Xeon E5-2695 v3 @ 2.30GHz	20,923	\$2,499.99
Intel Xeon E5-2699 v3 @ 2.30GHz	20,594	\$4,691.81
Intel Xeon E5-2690 v3 @ 2.60GHz	19,745	\$2,149.99
Intel Xeon E5-2680 v3 @ 2.50GHz	19,021	\$1,752.65
Intel Xeon E5-2687W v3 @ 3.10GHz	17,719	\$2,229.99
Intel Xeon E5-2697 v2 @ 2.70GHz	17,438	\$2,649.99
Intel Xeon E5-1680 v3 @ 3.20GHz	17,166	NA
Intel Xeon E5-2670 v3 @ 2.30GHz	16,686	\$1,659.99
Intel Xeon E5-2696 v2 @ 2.50GHz	16,681	NA
Intel Xeon E5-2687W v2 @ 3.40GHz	16,671	\$2,089.31
Intel Xeon E5-2667 v2 @ 3.30GHz	16,542	\$2,287.01*
Intel Xeon E5-2690 v2 @ 3.00GHz	16,399	\$2,054.99
Intel Xeon E5-2680 v2 @ 2.80GHz	16,379	\$1,769.99
Intel Xeon E5-2683 v3 @ 2.00GHz	16,351	\$2,136.99*
Intel Xeon E5-2667 v3 @ 3.20GHz	16,274	\$2,350.19
Intel Xeon E5-2660 v3 @ 2.60GHz	16,194	\$1,499.99
Intel Core i7-5960X @ 3.00GHz	16,001	\$1,049.99
Intel Xeon E5-1680 v2 @ 3.00GHz	15,994	NA
Intel Xeon E5-2658 v3 @ 2.20GHz	15,700	NA
Intel Xeon E5-2695 v2 @ 2.40GHz	15,502	\$2,339.99
Intel Xeon E5-2650 v3 @ 2.30GHz	15,221	\$1,169.99
Intel Xeon E5-2670 v2 @ 2.50GHz	15,056	\$1,559.99
Intel Xeon E5-2687W @ 3.10GHz	14,488	\$1,908.99*
Intel Xeon E5-2690 @ 2.90GHz	14,376	\$2,004.00*
Intel Xeon E5-2643 v3 @ 3.40GHz	14,224	\$1,799.95*
Intel Xeon E5-2685 v3 @ 2.60GHz	14,154	NA
Intel Xeon E5-2640 v3 @ 2.60GHz	14,067	\$977.57
Intel Core i7-4960X @ 3.60GHz	13,941	\$1,024.99
Intel Xeon E5-2658 v2 @ 2.40GHz	13,875	NA
Intel Xeon E5-2689 @ 2.60GHz	13,869	NA
Intel Xeon E5-1660 v2 @ 3.70GHz	13,772	\$1,141.09*
Intel Core i7-5930K @ 3.50GHz	13,665	\$459.99

Intel Xeon E5-2660 v2 @ 2.20GHz	13,659	\$1,399.99
Intel Xeon E5-1650 v3 @ 3.50GHz	13,471	\$621.66*
Intel Xeon E5-2680 @ 2.70GHz	13,393	\$1,809.95*
Intel Core i7-4930K @ 3.40GHz	13,074	\$599.99
Intel Xeon E5-2650 v2 @ 2.60GHz	13,026	\$1,141.31
Intel Core i7-5820K @ 3.30GHz	13,011	\$374.99
Intel Xeon E5-2628L v3 @ 2.00GHz	12,844	NA
Intel Xeon E5-2630 v3 @ 2.40GHz	12,813	\$659.99
Intel Xeon E5-2670 @ 2.60GHz	12,812	\$1,549.99*
Intel Core i7-3960X @ 3.30GHz	12,733	\$1,011.79*
Intel Core i7-3970X @ 3.50GHz	12,714	\$1,110.63*
Intel Xeon E5-1660 @ 3.30GHz	12,595	\$1,104.00*
Intel Xeon E5-1650 v2 @ 3.50GHz	12,531	\$629.99
Intel Xeon E5-1660 v3 @ 3.00GHz	12,303	\$1,069.99*
Intel Xeon E5-2665 @ 2.40GHz	12,152	\$1,205.04*
Intel Core i7-3930K @ 3.20GHz	12,080	\$539.99
Intel Xeon E5-4650 @ 2.70GHz	11,960	\$3,899.99*
Intel Xeon E5-2660 @ 2.20GHz	11,891	\$1,349.99*
Intel Xeon E5-2643 v2 @ 3.50GHz	11,735	\$2,643.90*
Intel Xeon E5-1650 @ 3.20GHz	11,720	\$624.99*
Intel Core i7-4790K @ 4.00GHz	11,227	\$299.99
Intel Core i7-6700K @ 4.00GHz	11,018	\$419.99
Intel Core i7-5775C @ 3.30GHz	11,009	\$371.99*
Intel Core i7-5950HQ @ 2.90GHz	10,945	NA
Intel Xeon D-1540 @ 2.00GHz	10,904	NA
Intel Xeon E3-1285L v3 @ 3.10GHz	10,483	NA
Intel Xeon E3-1240 v5 @ 3.50GHz	10,477	NA
Intel Xeon E5-2667 @ 2.90GHz	10,425	\$1,599.99*
Intel Xeon E5-2630 v2 @ 2.60GHz	10,422	\$607.31
Intel Xeon E5-2650 @ 2.00GHz	10,375	\$1,129.99*
Intel Xeon E5-2637 v3 @ 3.50GHz	10,342	NA
AMD FX-9590 Eight-Core	10,268	\$199.99

Intel Xeon E5-2640 v2 @ 2.00GHz	10,230	\$889.99
Intel Xeon E3-1276 v3 @ 3.60GHz	10,223	\$343.99
Intel Core i7-4770K @ 3.50GHz	10,173	\$389.98
Intel Core i7-4980HQ @ 2.80GHz	10,156	NA
Intel Xeon E5-1630 v3 @ 3.70GHz	10,152	\$463.00*
Intel Xeon E3-1271 v3 @ 3.60GHz	10,127	\$342.99
AMD Opteron 6380	10,082	\$1,110.99
Intel Xeon E3-1281 v3 @ 3.70GHz	10,081	NA
Intel Core i7-4790 @ 3.60GHz	10,030	\$299.99
Intel Xeon E3-1241 v3 @ 3.50GHz	10,021	\$277.31
Intel Xeon E5-2620 v3 @ 2.40GHz	9,987	\$429.99
Intel Core i7-6700 @ 3.40GHz	9,986	\$329.99*
Intel Xeon E3-1290 V2 @ 3.70GHz	9,954	\$885.00*
Intel Core i7-4960HQ @ 2.60GHz	9,892	\$623.00*
Intel Core i7-4771 @ 3.50GHz	9,890	\$319.99
Intel Xeon E3-1246 v3 @ 3.50GHz	9,858	\$285.00
Intel Core i7-4770 @ 3.40GHz	9,845	\$293.71
Intel Xeon E3-1270 v3 @ 3.50GHz	9,835	\$339.99*
Intel Core i7-4770R @ 3.20GHz	9,818	NA
Intel Core i7-4820K @ 3.70GHz	9,810	\$329.99
Intel Xeon E3-1280 V2 @ 3.60GHz	9,751	\$644.99*
Intel Xeon E3-1240 v3 @ 3.40GHz	9,741	\$414.69*
Intel Xeon E5-2640 @ 2.50GHz	9,737	\$999.99
Intel Xeon E3-1275 v3 @ 3.50GHz	9,736	\$359.99*
Intel Xeon W3690 @ 3.47GHz	9,708	\$1,228.99*
Intel Core i7-4940MX @ 3.10GHz	9,672	\$1,008.95*
Intel Xeon E5-1620 v3 @ 3.50GHz	9,640	\$307.99
Intel Core i7-4790S @ 3.20GHz	9,624	\$304.99
Intel Xeon E3-1280 v3 @ 3.60GHz	9,615	\$612.00*
Intel Xeon E3-1231 v3 @ 3.40GHz	9,601	\$249.99
Intel Core i7-3770K @ 3.50GHz	9,591	\$516.25
Intel Core i7-4910MQ @ 2.90GHz	9,582	\$784.02*

Intel Xeon E3-1270 V2 @ 3.50GHz	9,554	\$406.90*
Intel Core i7-4930MX @ 3.00GHz	9,531	\$1,096.00*
AMD FX-9370 Eight-Core	9,530	\$179.00
Intel Xeon E3-1245 v3 @ 3.40GHz	9,521	\$311.85*
Intel Xeon E5-1620 v2 @ 3.70GHz	9,496	\$314.99*
Intel Xeon E5-2658 @ 2.10GHz	9,484	\$899.95*
Intel Core i7-3940XM @ 3.00GHz	9,480	\$549.99*
Intel Core i7-4870HQ @ 2.50GHz	9,412	NA
Intel Xeon W3680 @ 3.33GHz	9,408	\$899.99*
Intel Xeon E3-1286 v3 @ 3.70GHz	9,388	NA
Intel Core i7-4860HQ @ 2.40GHz	9,367	NA
Intel Core i7-3770 @ 3.40GHz	9,348	\$299.99
Intel Core i7-4770S @ 3.10GHz	9,342	\$287.80
Intel Xeon E3-1230 v3 @ 3.30GHz	9,306	\$249.99
Intel Xeon E5-2637 v2 @ 3.50GHz	9,294	\$1,068.24*
Intel Xeon E3-1240 V2 @ 3.40GHz	9,285	\$348.98*
Intel Xeon E3-1275 V2 @ 3.50GHz	9,285	\$399.99*
Intel Xeon X5690 @ 3.47GHz	9,273	\$307.00
Intel Core i7 X 990 @ 3.47GHz	9,263	\$1,509.99*
Intel Core i7-3920XM @ 2.90GHz	9,237	\$1,096.00*
Intel Xeon E5-2623 v3 @ 3.00GHz	9,215	\$599.73*
Intel Core i7-6700T @ 2.80GHz	9,160	NA
Intel Core i7-4850HQ @ 2.30GHz	9,144	\$434.00*
Intel Xeon E5-2440 @ 2.40GHz	9,144	\$810.99*
Intel Core i7-4900MQ @ 2.80GHz	9,140	\$559.99*
AMD Opteron 6282 SE	9,116	\$1,089.99*
Intel Xeon E5-1620 @ 3.60GHz	9,113	\$349.99*
Intel Xeon E3-1245 V2 @ 3.40GHz	9,104	\$341.00*
Intel Core i7-4760HQ @ 2.10GHz	9,101	NA
Intel Core i7-6820HK @ 2.70GHz	9,068	NA
Intel Core i7-4790T @ 2.70GHz	9,052	NA
Intel Xeon X5680 @ 3.33GHz	9,011	\$222.85*

Intel Core i7-3820 @ 3.60GHz	9,005	\$672.59*
AMD FX-8370 Eight-Core	9,002	\$199.99
Intel Core i7-4770HQ @ 2.20GHz	8,977	NA
AMD FX-8350 Eight-Core	8,968	\$149.99
Intel Core i7 X 980 @ 3.33GHz	8,950	\$1,008.95
Intel Xeon E5-2630 @ 2.30GHz	8,926	\$757.00
Intel Core i7-3770S @ 3.10GHz	8,918	\$698.67*
Intel Core i7-3840QM @ 2.80GHz	8,902	\$505.00*
Intel Core i7-2700K @ 3.50GHz	8,844	\$440.00*
Intel Xeon E3-1230 V2 @ 3.30GHz	8,841	\$298.10
Intel Core i7 980 @ 3.33GHz	8,839	\$1,108.95*
Intel Core i7-4770T @ 2.50GHz	8,790	NA
Intel Xeon E3-1265L v3 @ 2.50GHz	8,773	\$297.99*
Intel Core i7-4810MQ @ 2.80GHz	8,772	\$378.00*
Intel Xeon E5-2420 v2 @ 2.20GHz	8,766	\$439.99
Intel Xeon E5-2620 v2 @ 2.10GHz	8,704	\$404.99
Intel Xeon E3-1290 @ 3.60GHz	8,704	\$885.00*
Intel Core i7-5700HQ @ 2.70GHz	8,683	NA
Intel Xeon E3-1275L v3 @ 2.70GHz	8,665	NA
Intel Xeon X5675 @ 3.07GHz	8,573	\$364.95*
Intel Core i7 970 @ 3.20GHz	8,535	\$855.95*
Intel Core i7-2600K @ 3.40GHz	8,535	\$538.99
Intel Core i7-4800MQ @ 2.70GHz	8,534	\$509.95*
Intel Xeon E3-1280 @ 3.50GHz	8,532	\$649.99*
Intel Core i7-3820QM @ 2.70GHz	8,528	\$602.97*
Intel Xeon W3670 @ 3.20GHz	8,515	\$597.99*
Intel Xeon E5-2643 @ 3.30GHz	8,474	\$939.99*
Intel Core i7-3740QM @ 2.70GHz	8,426	\$389.99*
Intel Xeon E3-1275 @ 3.40GHz	8,337	\$369.99
Intel Core i7-4750HQ @ 2.00GHz	8,324	NA
Intel Xeon E3-1270 @ 3.40GHz	8,300	\$359.99
Intel Core i7-3770T @ 2.50GHz	8,296	\$329.99*

Intel Core i7-2600 @ 3.40GHz	8,263	\$354.15
Intel Core i7-3720QM @ 2.60GHz	8,250	\$309.99*
Intel Xeon X5670 @ 2.93GHz	8,168	\$190.00
Intel Core i7-5675C @ 3.10GHz	8,164	NA
Intel Core i7-4720HQ @ 2.60GHz	8,109	NA
Intel Xeon E3-1245 @ 3.30GHz	8,072	\$309.99
Intel Core i5-5675C @ 3.10GHz	8,064	\$299.99*
Intel Core i7-6700HQ @ 2.60GHz	8,064	NA
Intel Core i7-4722HQ @ 2.40GHz	8,051	NA
Intel Xeon E5-2430 v2 @ 2.50GHz	8,041	\$569.99
AMD FX-8320 Eight-Core	8,024	\$119.99
Intel Xeon X5660 @ 2.80GHz	7,998	\$94.99*
Intel Core i7-4710MQ @ 2.50GHz	7,984	\$219.00*
Intel Xeon E5-2620 @ 2.00GHz	7,983	\$431.99*
Intel Xeon E3-1240 @ 3.30GHz	7,947	\$299.99
Intel Xeon E3-1505M v5 @ 2.80GHz	7,926	NA
Intel Core i7-5700EQ @ 2.60GHz	7,912	NA
Intel Xeon E3-1230 @ 3.20GHz	7,909	\$279.99
Intel Xeon E5-2630L @ 2.00GHz	7,868	NA
Intel Core i7-4710HQ @ 2.50GHz	7,842	NA
AMD FX-8370E Eight-Core	7,826	\$209.99
Intel Core i7-4700HQ @ 2.40GHz	7,785	\$383.00*
Intel Core i7-4700MQ @ 2.40GHz	7,769	\$385.99*
Intel Core i5-6600K @ 3.50GHz	7,754	\$254.99
Intel Xeon E3-1235 @ 3.20GHz	7,751	\$269.99*
Intel Core i5-4690K @ 3.50GHz	7,723	\$209.99
AMD FX-8310 Eight-Core	7,714	NA
AMD FX-8150 Eight-Core	7,637	\$231.19
Intel Core i5-4670K @ 3.40GHz	7,633	\$254.99
Intel Core i7-3630QM @ 2.40GHz	7,631	\$239.99*
Intel Core i5-4690 @ 3.50GHz	7,627	\$223.99
AMD FX-8300 Eight-Core	7,623	NA

Intel Xeon E3-1265L V2 @ 2.50GHz	7,602	\$319.19*
Intel Core i7-4702HQ @ 2.20GHz	7,601	NA
Intel Xeon X5650 @ 2.67GHz	7,589	\$482.79
Intel Core i7-4712HQ @ 2.30GHz	7,588	NA
Intel Core i7-4700EQ @ 2.40GHz	7,532	NA
Intel Xeon E3-1240L v3 @ 2.00GHz	7,507	NA
Intel Core i7-4785T @ 2.20GHz	7,483	NA
Intel Xeon E3-1226 v3 @ 3.30GHz	7,469	\$224.99
Intel Core i7-3610QM @ 2.30GHz	7,469	\$399.99*
Intel Core i5-4690S @ 3.20GHz	7,425	\$224.99
AMD FX-8320E Eight-Core	7,418	\$148.99
Intel Core i7-4770TE @ 2.30GHz	7,410	NA
Intel Core i5-4670 @ 3.40GHz	7,384	\$222.95
Intel Core i5-6600 @ 3.30GHz	7,364	\$229.99
Intel Core i7-2960XM @ 2.70GHz	7,361	\$1,096.00*
Intel Core i7-3615QM @ 2.30GHz	7,356	NA
Intel Core i7-4765T @ 2.00GHz	7,317	NA
Intel Xeon E5-1410 @ 2.80GHz	7,312	NA
Intel Core i7-2860QM @ 2.50GHz	7,266	\$599.99*
Intel Xeon E5-2420 @ 1.90GHz	7,260	\$405.00*
Intel Xeon X5687 @ 3.60GHz	7,226	NA
Intel Core i5-4590 @ 3.30GHz	7,223	\$179.99
Intel Core i5-6600T @ 2.70GHz	7,207	\$282.00
Intel Xeon E3-1230L v3 @ 1.80GHz	7,199	NA
Intel Core i7-4712MQ @ 2.30GHz	7,192	NA
Intel Core i7-4702MQ @ 2.20GHz	7,192	NA
Intel Core i5-3570K @ 3.40GHz	7,151	\$428.99
Intel Xeon E5649 @ 2.53GHz	7,149	\$409.50*
Intel Xeon L5639 @ 2.13GHz	7,107	NA
Intel Core i7-2600S @ 2.80GHz	7,059	\$328.45*
Intel Xeon X5677 @ 3.47GHz	7,046	\$1,663.00*
Intel Core i5-4590S @ 3.00GHz	7,023	\$209.43

Intel Core i5-4570 @ 3.20GHz	7,019	\$198.79
Intel Xeon E3-1225 v3 @ 3.20GHz	7,013	\$235.99*
Intel Core i7-2920XM @ 2.50GHz	7,000	\$1,096.00*
Intel Core i5-3570 @ 3.40GHz	6,985	\$408.95*
AMD FX-6350 Six-Core	6,984	\$124.99
Intel Core i7-3632QM @ 2.20GHz	6,934	\$378.00*
Intel Core i5-6500 @ 3.20GHz	6,884	\$204.99
Intel Xeon E5-2430 @ 2.20GHz	6,878	\$649.99*
Intel Xeon E3-1225 V2 @ 3.20GHz	6,854	\$228.99*
Intel Core i7-3612QM @ 2.10GHz	6,828	NA
Intel Core i5-3550 @ 3.30GHz	6,820	\$229.88
Intel Core i5-4690T @ 2.50GHz	6,812	NA
Intel Xeon L5640 @ 2.27GHz	6,786	\$94.99*
Intel Core i5-3550S @ 3.00GHz	6,776	NA
Intel Core i5-2550K @ 3.40GHz	6,771	\$285.95*
Intel Xeon E5-1607 v3 @ 3.10GHz	6,768	NA
Intel Core i7-2840QM @ 2.40GHz	6,766	NA
AMD Opteron 6272	6,759	\$340.75
Intel Xeon E5645 @ 2.40GHz	6,659	\$346.56*
Intel Core i7-2760QM @ 2.40GHz	6,640	\$378.00*
Intel Core i5-4460 @ 3.20GHz	6,632	\$189.99
Intel Xeon E3-1220 v3 @ 3.10GHz	6,628	\$204.99
Intel Core i5-4570S @ 2.90GHz	6,621	\$194.99
Intel Core i7-2820QM @ 2.30GHz	6,610	\$498.95*
Intel Core i7-3635QM @ 2.40GHz	6,608	NA
Intel Xeon W3580 @ 3.33GHz	6,586	\$1,083.47*
AMD FX-8120 Eight-Core	6,574	\$173.18*
Intel Core i5-3470 @ 3.20GHz	6,565	\$319.95
Intel Core i5-3570S @ 3.10GHz	6,547	NA
Intel Xeon E3-1260L @ 2.40GHz	6,534	\$310.99*
Intel Xeon E3-1220 V2 @ 3.10GHz	6,534	\$238.69*
Intel Core i5-6400 @ 2.70GHz	6,482	\$189.99

Intel Core i7-3612QE @ 2.10GHz	6,481	NA
Intel Core i5-2500K @ 3.30GHz	6,461	\$365.55*
Intel Core i5-4570R @ 2.70GHz	6,456	NA
Intel Core i5-3450 @ 3.10GHz	6,449	\$524.58*
Intel Core i5-4670S @ 3.10GHz	6,436	NA
Intel Core i5-4440 @ 3.10GHz	6,429	\$189.99
AMD Opteron 3380	6,384	NA
Intel Core i5-4460S @ 2.90GHz	6,359	NA
AMD FX-6300 Six-Core	6,346	\$89.99
Intel Core i5-4670T @ 2.30GHz	6,335	NA
Intel Xeon W5590 @ 3.33GHz	6,314	\$1,759.21*
Intel Core i7 975 @ 3.33GHz	6,267	\$399.00
Intel Core i5-4430 @ 3.00GHz	6,265	\$184.99
Intel Xeon W3570 @ 3.20GHz	6,247	\$1,089.99*
Intel Core i5-2500 @ 3.30GHz	6,224	\$279.99
AMD FX-6130 Six-Core	6,215	NA
Intel Core i5-3470S @ 2.90GHz	6,213	\$319.95*
Intel Core i7-3610QE @ 2.30GHz	6,175	NA
Intel Core i7-2720QM @ 2.20GHz	6,158	\$399.99*
Intel Core i5-3475S @ 2.90GHz	6,157	NA
Intel Core i5-4440S @ 2.80GHz	6,113	\$189.99
Intel Xeon E3-1220 @ 3.10GHz	6,110	\$219.99
AMD FX-6200 Six-Core	6,108	\$121.00
Intel Core i5-3350P @ 3.10GHz	6,087	\$189.99*
AMD FX-8100 Eight-Core	6,085	\$142.00*
Intel Xeon W3565 @ 3.20GHz	6,083	\$322.99*
Intel Core i5-2450P @ 3.20GHz	6,063	\$214.99*
Intel Xeon X5647 @ 2.93GHz	5,995	\$1,207.50*
Intel Core i5-4430S @ 2.70GHz	5,993	NA
Intel Core i5-3340 @ 3.10GHz	5,983	\$214.24*
Intel Core i5-3450S @ 2.80GHz	5,982	\$206.51*
AMD Opteron 6234	5,979	\$399.99*