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High End CPU's - Intel vs AMD

This chart comparing high end CPU's 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 CPU's performance is best for your new gaming rig or server!



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CPU Mark | Price Performance

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PassMark - CPU Mark High End CPUs - Updated 24th of February 2012

		Price (USD)
Intel Core i7-3960X @ 3.30GHz	14,100	\$1,049.99*
Intel Core i7-3930K @ 3.20GHz	13,478	\$828.24*
Intel Core i7 995X @ 3.60GHz	10,945	NA
Intel Core i7 990X @ 3.47GHz	10,629	\$1,029.99*
Intel Xeon X5690 @ 3.47GHz	10,383	\$1,659.99*
Intel Core i7 980 @ 3.33GHz	10,307	\$589.99*
Intel Xeon W3690 @ 3.47GHz	10,291	\$1,079.99*
AMD Opteron 6272	10,245	\$539.99*
Intel Core i7 980X @ 3.33GHz	10,236	\$1,090.00**
Intel Xeon X5675 @ 3.07GHz	10,159	\$1,443.00*
Intel Xeon W3680 @ 3.33GHz	10,048	\$618.63**
Intel Xeon X5680 @ 3.33GHz	9,934	\$1,639.99**
Intel Core i7 970 @ 3.20GHz	9,919	\$641.91*
Intel Xeon X5679 @ 3.20GHz	9,800	NA
Intel Xeon E31290 @ 3.60GHz	9,793	NA
Intel Core i7-3820 @ 3.60GHz	9,574	\$319.99*
Intel Core i7-2700K @ 3.50GHz	9,439	\$339.99*
Intel Core i7-2600K @ 3.40GHz	9,104	\$299.99*
Intel Xeon E31270 @ 3.40GHz	9,100	\$339.99*
Intel Xeon E31275 @ 3.40GHz	9,097	\$384.99*
Intel Xeon E31280 @ 3.50GHz	9,028	\$619.99*
Intel Xeon X5670 @ 2.93GHz	8,926	\$1,442.01*
Intel Core i7-2600 @ 3.40GHz	8,910	\$299.88*
Intel Xeon X5660 @ 2.80GHz	8,557	\$1,229.99*
Intel Core i7-2960XM @ 2.70GHz	8,527	\$1,096.00**
Intel Xeon E31235 @ 3.20GHz	8,484	\$264.99*
Intel Xeon E31230 @ 3.20GHz	8,468	\$239.99*
Intel Core i5-2540K @ 3.30GHz	8,412	NA
AMD FX-8150 Eight-Core	8,257	\$239.99*
Intel Xeon W3670 @ 3.20GHz	8,171	\$599.99**
Intel Xeon L5640 @ 2.27GHz	8,150	\$1,044.76**

Intel Xeon E31245 @ 3.30GHz	8,090	\$279.99**
AMD Opteron 6234	7,923	\$389.99*
Intel Xeon X5650 @ 2.67GHz	7,915	\$1,003.99*
Intel Core i7-2860QM @ 2.50GHz	7,910	\$692.63**
Intel Xeon E31240 @ 3.30GHz	7,897	\$284.99*
AMD Opteron 6172	7,784	\$1,019.00*
Intel Core i7-2820QM @ 2.30GHz	7,548	\$499.00**
Intel Core i7-2760QM @ 2.40GHz	7,530	\$378.00**
Intel Core i7-2920XM @ 2.50GHz	7,490	\$1,096.00**
Intel Core i7-2600S @ 2.80GHz	7,485	\$309.99*
Intel Xeon X5687 @ 3.60GHz	7,307	NA
Intel Xeon E5649 @ 2.53GHz	7,128	\$779.99*
AMD FX-8120 Eight-Core	7,118	\$199.99*
Intel Core i7-2720QM @ 2.20GHz	7,007	\$399.99**
Intel Xeon E5645 @ 2.40GHz	6,964	\$557.99*
Intel Xeon X5647 @ 2.93GHz	6,903	NA
Intel Core i7 975 @ 3.33GHz	6,873	\$1,019.47**
Intel Xeon W3570 @ 3.20GHz	6,860	\$1,089.99**
Intel Core i7-2670QM @ 2.20GHz	6,809	NA
Intel Xeon W5590 @ 3.33GHz	6,787	\$1,731.15**
Intel Core i5-2500K @ 3.30GHz	6,747	\$222.00*
Intel Xeon W3580 @ 3.33GHz	6,720	\$1,083.47**
Intel Core i7 880X @ 3.07GHz	6,698	NA
Intel Xeon E31260L @ 2.40GHz	6,692	NA
Intel Core i7 960 @ 3.20GHz	6,635	\$325.89*
Intel Core i5-2500 @ 3.30GHz	6,615	\$202.00*
Intel Core i7 965 @ 3.20GHz	6,599	\$990.00**
Intel Core i7-2675QM @ 2.20GHz	6,431	NA
Intel Core i7 950 @ 3.07GHz	6,421	\$269.99*
Intel Xeon X5672 @ 3.20GHz	6,414	NA
Intel Xeon E31225 @ 3.10GHz	6,403	\$219.99*
Intel Xeon W5580 @ 3.20GHz	6,381	\$1,659.99**
Intel Core i7 880 @ 3.07GHz	6,372	\$583.00**
Intel Core i7-2635QM @ 2.00GHz	6,366	NA
Intel Core i7-2630QM @ 2.00GHz	6,358	NA
Intel Xeon X5677 @ 3.47GHz	6,343	\$1,663.00**
Intel Xeon X5667 @ 3.07GHz	6,267	\$1,440.00**
Intel Core i7 875K @ 2.93GHz	6,255	\$429.35**
Intel Xeon E31220 @ 3.10GHz	6,250	\$206.99*
AMD Phenom II X6 1100T	6,206	\$309.95**
Intel Core i7 870 @ 2.93GHz	6,171	\$331.46*
Intel Core i5-2400 @ 3.10GHz	6,113	\$179.99*
Intel Core i7 940 @ 2.93GHz	6,111	\$399.98*
Intel Xeon X5570 @ 2.93GHz	6,107	\$1,433.99*
Intel Core i5-2320 @ 3.00GHz	6,072	\$189.88*
Intel Xeon W3565 @ 3.20GHz	6,050	\$325.99*
Intel Xeon X3470 @ 2.93GHz	5,987	\$343.99*
AMD Phenom II X6 1090T	5,978	\$226.93**
Intel Core i5-2310 @ 2.90GHz	5,903	\$184.99*
Intel Core i7 930 @ 2.80GHz	5,831	\$345.02*
Intel Xeon W3550 @ 3.07GHz	5,807	\$309.99*
Intel Core i5-2300 @ 2.80GHz	5,632	\$179.99*
Intel Xeon X5560 @ 2.80GHz	5,624	\$1,222.99*

Intel Core i7 860 @ 2.80GHz	5,618	\$345.99**
AMD Six-Core	5,602	NA
AMD FX-6100 Six-Core	5,594	\$148.50*
Intel Xeon W3540 @ 2.93GHz	5,582	\$698.95**
AMD Phenom II X6 1075T	5,547	\$179.99**
Intel Core i7 870S @ 2.67GHz	5,535	NA
Intel Xeon X3460 @ 2.80GHz	5,530	\$372.99*
Intel Core i7 920 @ 2.67GHz	5,511	\$285.00*
AMD Phenom II X6 1065T	5,495	NA
Intel Xeon W 570 @ 3.20GHz	5,419	NA
AMD A8-3850 APU	5,385	\$129.99*
Intel Xeon X3380 @ 3.16GHz	5,372	NA
Intel Xeon X3440 @ 2.53GHz	5,307	\$237.99*
Intel Xeon X3450 @ 2.67GHz	5,246	\$264.99*
Intel Xeon W3530 @ 2.80GHz	5,194	\$285.00*
AMD Phenom II X6 1055T	5,179	\$253.95*
Intel Xeon X5550 @ 2.67GHz	5,170	\$1,003.99*
Intel Xeon E5640 @ 2.67GHz	5,130	\$779.99*
Intel Core i5-2500S @ 2.70GHz	5,120	NA
AMD Opteron 6128	5,105	\$269.99*
AMD A8-3870 APU	5,101	NA
Intel Core i5-2405S @ 2.50GHz	5,065	\$219.99**
Intel Core i5-2400S @ 2.50GHz	5,051	\$193.00*
AMD Phenom II X6 1045T	5,044	\$149.99*
Intel Xeon W3520 @ 2.67GHz	5,004	\$354.99*
Intel Xeon X5460 @ 3.16GHz	4,949	\$999.99**
Intel Xeon X5482 @ 3.20GHz	4,946	\$1,279.00**
Intel Xeon X3370 @ 3.00GHz	4,907	\$365.50**
AMD Phenom II X6 1035T	4,877	\$129.99*
Intel Core2 Extreme X9770 @ 3.20GHz	4,871	\$1,400.00**
Intel Xeon E5630 @ 2.53GHz	4,858	\$557.99*
Intel Core2 Extreme X9750 @ 3.16GHz	4,821	NA
Intel Xeon X5472 @ 3.00GHz	4,723	\$844.50**
Intel Xeon E5620 @ 2.40GHz	4,700	NA
Intel Xeon X5470 @ 3.33GHz	4,693	NA
Intel Xeon X5492 @ 3.40GHz	4,639	\$1,391.29**
AMD A6-3650 APU	4,633	\$109.99*
Intel Core i7 940XM @ 2.13GHz	4,622	\$1,149.99**
Intel Xeon L5520 @ 2.27GHz	4,616	\$635.99*
Intel Xeon E5530 @ 2.40GHz	4,605	\$609.99*
Intel Core i5 760 @ 2.80GHz	4,595	\$234.08*
Six-Core AMD Opteron 2431	4,586	\$814.81**
AMD Phenom II X4 980	4,586	\$159.99*
Intel Xeon X5450 @ 3.00GHz	4,580	\$852.00**
Intel Core2 Extreme X9650 @ 3.00GHz	4,560	\$1,198.95**
Intel Core2 Quad Q9650 @ 3.00GHz	4,553	\$470.00**
Intel Xeon E5540 @ 2.53GHz	4,498	\$816.95*
Intel Core i7 920XM @ 2.00GHz	4,467	\$1,144.69**
AMD Athlon II X4 631 Quad-Core	4,431	\$79.99*
Intel Core i3-2130 @ 3.40GHz	4,428	\$149.99*
Intel Xeon E5520 @ 2.27GHz	4,387	\$390.53*
Intel Xeon E5440 @ 2.83GHz	4,382	\$379.42**
AMD Phenom II X4 975	4,358	\$144.99*

AMD Phenom II X4 970	4,351	\$129.99*
Intel Core2 Quad Q9550 @ 2.83GHz	4,292	\$312.99*
Intel Core i5 750 @ 2.67GHz	4,291	\$199.00**
Intel Xeon E5462 @ 2.80GHz	4,263	\$255.99**
Intel Xeon X3350 @ 2.66GHz	4,258	\$316.00**
AMD Phenom II X4 B65	4,236	NA
AMD A6-3600 APU	4,206	NA
Intel Xeon X3360 @ 2.83GHz	4,205	\$268.00**
Intel Xeon E5450 @ 3.00GHz	4,201	\$1,058.95*
AMD Phenom II X4 965	4,198	\$154.99**
Intel Core i3-2120 @ 3.30GHz	4,183	\$127.99*
AMD Phenom II X4 40	4,145	\$182.13**
Intel Xeon E5430 @ 2.66GHz	4,140	\$459.00**
AMD Phenom II X4 B97	4,121	NA
Intel Core i3-2125 @ 3.30GHz	4,086	\$149.99*
AMD Phenom II X4 15	4,082	NA
Intel Core i7-2640M @ 2.80GHz	4,070	NA
AMD Athlon II X4 555	4,069	NA
Intel Core2 Quad Q9500 @ 2.83GHz	4,060	\$183.00**
Intel Core i5-2390T @ 2.70GHz	4,054	NA
AMD Phenom II X4 850	4,053	\$135.27**
AMD FX-4100 Quad-Core	4,042	\$109.99*
Intel Core2 Quad Q9505 @ 2.83GHz	4,036	\$247.23**
Intel Core2 Quad Q9450 @ 2.66GHz	4,032	\$398.95**
Intel Core2 Extreme X9775 @ 3.20GHz	4,028	\$1,849.95**
Intel Core i7-2620M @ 2.70GHz	3,997	NA
AMD Phenom II X4 B60	3,990	NA
Intel Xeon X3430 @ 2.40GHz	3,951	\$204.99*
Intel Core i3-2105 @ 3.10GHz	3,933	\$134.99*
AMD A6-3670 APU	3,925	NA
Intel Xeon X5365 @ 3.00GHz	3,922	\$1,293.95**
Intel Core i7 840QM @ 1.87GHz	3,914	\$600.99**
AMD Phenom II X4 955	3,902	\$119.99**
Intel Core i5-2540M @ 2.60GHz	3,877	\$325.69**
Intel Xeon E5607 @ 2.27GHz	3,871	\$282.99*
Intel Core i3-2100 @ 3.10GHz	3,856	\$119.95*
Intel Core2 Extreme @ 2.40GHz	3,838	NA
Intel Core2 Extreme Q6850 @ 3.00GHz	3,827	NA
AMD Athlon II X4 650	3,816	NA
Intel Xeon X3230 @ 2.66GHz	3,793	\$310.51**
AMD A6-3620 APU	3,792	NA
Intel Core2 Extreme Q9300 @ 2.53GHz	3,782	NA
Intel Core2 Quad Q9400 @ 2.66GHz	3,780	\$339.95**
AMD Phenom II X4 960T	3,756	\$124.99*
Intel Xeon X3320 @ 2.50GHz	3,754	\$229.95**
Intel Xeon E5606 @ 2.13GHz	3,753	\$234.99*
Intel Xeon X3330 @ 2.66GHz	3,744	\$223.79**
Intel Xeon E5420 @ 2.50GHz	3,742	\$519.95**
AMD Phenom II X4 840T	3,716	NA
AMD Athlon II X4 645	3,698	\$122.99*
AMD Phenom II X4 B50	3,696	NA
Intel Core2 Quad Q8400 @ 2.66GHz	3,685	\$176.88**
Intel Core i5-2450M @ 2.50GHz	3,683	NA

AMD Phenom II X4 B95	3,668	\$225.00**
AMD Athlon X4 640	3,651	NA
AMD Phenom II X4 B35	3,644	NA
Intel Xeon L3426 @ 1.87GHz	3,631	\$325.99*
Intel Core i7 740QM @ 1.73GHz	3,626	\$407.53**
Intel Core i7 820QM @ 1.73GHz	3,625	\$546.00**
AMD Phenom II X4 945	3,613	\$139.99**
Intel Xeon E5507 @ 2.27GHz	3,612	\$284.99**
AMD Phenom II X4 940	3,610	\$104.99**
Intel Core i5-2520M @ 2.50GHz	3,606	\$249.99**
Intel Core2 Quad Q9300 @ 2.50GHz	3,604	\$309.95**
AMD Phenom II X4 B45	3,565	NA
Intel Xeon L5420 @ 2.50GHz	3,561	\$386.00**
Intel Core2 Quad Q8300 @ 2.50GHz	3,555	\$139.00*
Intel Core2 Quad Q9100 @ 2.26GHz	3,511	\$385.89**
Intel Core2 Extreme Q6800 @ 2.93GHz	3,505	\$1,125.00**
AMD Phenom II X4 973	3,499	NA
AMD Phenom II X4 820	3,485	\$89.99**
AMD Phenom II X4 830	3,478	\$89.99**
Intel Core i5-2430M @ 2.40GHz	3,478	NA
Intel Xeon E5410 @ 2.33GHz	3,469	\$264.13*
AMD Athlon II X4 640	3,460	\$119.95*
AMD Phenom II X4 B25	3,460	NA
Intel Core2 Extreme @ 2.26GHz	3,459	NA
Intel Core i5-2435M @ 2.40GHz	3,453	NA
Intel Xeon X5355 @ 2.66GHz	3,452	\$490.00**
Intel Core i5 680 @ 3.60GHz	3,443	\$316.99*
AMD Phenom II X4 925	3,436	\$94.99**
AMD Phenom FX-5200 Quad-Core	3,436	NA
Intel Core i5-2510E @ 2.50GHz	3,422	NA
AMD Phenom FX-7750 Quad-Core	3,421	NA
Intel Xeon E5506 @ 2.13GHz	3,415	\$230.99*
AMD Phenom II X4 B40	3,411	NA
AMD A8-3800 APU	3,403	NA
Intel Core i5 655K @ 3.20GHz	3,382	\$182.61**
Intel Core i5-2410M @ 2.30GHz	3,367	NA
AMD Athlon II X4 635	3,358	\$79.99**
Intel Core2 Quad Q6700 @ 2.66GHz	3,352	\$849.95**
Intel Core i7 720QM @ 1.60GHz	3,351	NA
AMD Phenom II X4 B93	3,349	NA
AMD A8-3820 APU	3,332	NA
Intel Core i7-2637M @ 1.70GHz	3,328	NA
AMD A6-3400M APU	3,318	NA
Intel Core i3-2100T @ 2.50GHz	3,297	\$123.00*
Quad-Core AMD Opteron 2378	3,296	\$179.00**
AMD Phenom II X4 920	3,295	\$109.99**
Intel Core i5 661 @ 3.33GHz	3,293	\$196.56**
AMD Phenom II X4 B55	3,291	NA
Intel Core2 Quad Q8200 @ 2.33GHz	3,273	\$167.00**
Intel Core i7-2677M @ 1.80GHz	3,258	NA
AMD Phenom II X4 05e	3,257	NA
AMD Phenom II X4 910	3,248	\$204.19**
AMD A8-3530MX APU	3,246	NA

AMD Athlon II X4 630	3,242	\$79.99**
Intel Xeon E31220L @ 2.20GHz	3,231	NA
AMD Phenom 9850B Quad-Core	3,229	NA
AMD A8-3510MX APU	3,224	NA
Intel Core i5 650 @ 3.20GHz	3,211	\$174.99*
Intel Core i5 670 @ 3.47GHz	3,201	\$324.20**
Intel Core i5 660 @ 3.33GHz	3,183	\$190.06*
Intel Core i3 560 @ 3.33GHz	3,154	\$121.09*
Intel Core i5-2515E @ 2.50GHz	3,149	NA
Intel Core i5-2415M @ 2.30GHz	3,136	NA
Intel Core i3-2120T @ 2.60GHz	3,118	\$134.99*
Intel Xeon E5504 @ 2.00GHz	3,111	\$238.99*
AMD Phenom II X4 810	3,110	\$115.99**
Intel Core i3 550 @ 3.20GHz	3,102	\$119.24*
AMD Phenom II X4 910e	3,100	\$197.39**
AMD Athlon X3 450	3,064	\$78.99**
AMD Phenom FX-5000 Quad-Core	3,064	NA
Intel Xeon X3220 @ 2.40GHz	3,053	\$298.95**
AMD Phenom II X4 900e	3,048	NA
AMD Phenom II X4 805	3,042	\$173.99**
AMD Phenom 9950 Quad-Core	3,026	\$156.99**
Intel Core2 Quad Q9000 @ 2.00GHz	3,020	\$389.00**
AMD Athlon II X3 460	2,985	\$84.99*
Intel Core i7 640M @ 2.80GHz	2,977	NA
AMD Athlon II X4 620	2,977	\$89.00**
AMD Athlon II X3 455	2,976	\$79.99*
AMD A6-3500 APU	2,975	\$75.99*
Intel Core2 Quad Q6600 @ 2.40GHz	2,967	\$398.95**
AMD A6-3410MX APU	2,965	NA
Intel Core i7-2617M @ 1.50GHz	2,962	NA
AMD Athlon II X4 615e	2,960	\$145.99**
Intel Xeon E5405 @ 2.00GHz	2,956	\$298.95**
AMD Phenom II X4 840	2,953	\$128.50*
AMD Opteron 6134	2,938	\$549.99**
AMD Phenom 9850 Quad-Core	2,930	\$110.00**
Intel Core i3-2350M @ 2.30GHz	2,924	NA
Intel Xeon E5345 @ 2.33GHz	2,919	\$196.42**
AMD Phenom II X4 905e	2,915	\$194.46**
Quad-Core AMD Opteron 2356	2,891	NA
Intel Xeon X5272 @ 3.40GHz	2,858	\$429.95**
Intel Core i3 540 @ 3.07GHz	2,843	\$108.18*
AMD Phenom II X4 B15e	2,831	NA
AMD A8-3500M APU	2,830	NA
Intel Core i7 620M @ 2.67GHz	2,819	\$332.00**
Intel Core i5 580M @ 2.67GHz	2,817	\$280.53**
AMD Phenom II X3 740	2,815	\$88.99**
AMD Athlon II X3 450	2,813	\$109.99*
AMD Athlon II X4 610e	2,810	\$140.99*
AMD Phenom 9750 Quad-Core	2,793	\$109.99**
Intel Core i5 480M @ 2.67GHz	2,792	NA
Intel Core i3-2330M @ 2.20GHz	2,761	NA
Intel Pentium G850 @ 2.90GHz	2,738	\$84.12*
AMD Phenom II N970 Quad-Core	2,738	NA

Intel Pentium G860 @ 3.00GHz	2,734	\$99.99*
Intel Xeon E3120 @ 3.16GHz	2,723	NA
Intel Core i3 530 @ 2.93GHz	2,721	\$138.99*
AMD Phenom II X920 Quad-Core	2,720	NA
AMD Athlon II X3 445	2,708	\$117.99*
AMD Athlon II X4 605e	2,688	\$139.99**
AMD Phenom 9750B Quad-Core	2,684	NA
Intel Core i5 560M @ 2.67GHz	2,681	\$236.40**
AMD Athlon II X4 6400e	2,675	NA
Intel Xeon E5603 @ 1.60GHz	2,674	\$204.99*
AMD Athlon II X4 600e	2,668	\$130.23**
Intel Core i7-2655LE @ 2.20GHz	2,664	NA
Intel Core i5 460M @ 2.53GHz	2,655	NA
Intel Pentium G840 @ 2.80GHz	2,655	\$77.00*
Intel Xeon X5260 @ 3.33GHz	2,654	\$851.00**
Quad-Core AMD Opteron 1352	2,653	\$135.99**
AMD Phenom 9650 Quad-Core	2,648	\$110.00**
Quad-Core AMD Opteron 2380	2,640	\$391.06**
Intel Core i5 520 @ 2.40GHz	2,629	NA
Intel Core i3-2310M @ 2.10GHz	2,627	NA
Intel Xeon X3210 @ 2.13GHz	2,622	\$214.99**
Quad-Core AMD Opteron 1354	2,620	\$309.97**
AMD Phenom II X3 715	2,607	\$84.99**
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