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CPU Benchmarks

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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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High End CPUs - Updated 3rd of December 2018

			Price (USD)
Intel Xeon Platinum 8173M @ 2.00GHz	28,860		NA
Intel Core i9-9940X @ 3.30GHz	28,121		\$1,387.00*
Intel Xeon Platinum 8175M @ 2.50GHz	28,103		NA
Intel Core i9-7980XE @ 2.60GHz	27,776		\$2,037.30
Intel Xeon Gold 6154 @ 3.00GHz	27,722		\$3,839.78
Intel Xeon Platinum 8124M @ 3.00GHz	26,652		NA
AMD Ryzen Threadripper 2950X	26,052		\$899.99
Intel Core i9-7960X @ 2.80GHz	25,731		\$1,805.02
Intel Core i9-7940X @ 3.10GHz	25,487		\$1,232.52
Intel Xeon Gold 6138 @ 2.00GHz	25,416		\$2,679.99
Intel Xeon E5-2679 v4 @ 2.50GHz	25,266		\$2,702.00*
Intel Xeon Gold 6146 @ 3.20GHz	25,142		\$3,339.00
Intel Xeon W-2195 @ 2.30GHz	24,983		\$2,787.35
AMD Ryzen Threadripper 2990WX	24,338		\$1,729.99
Intel Xeon Gold 6140 @ 2.30GHz	23,964		\$2,589.99*
Intel Xeon Gold 6132 @ 2.60GHz	23,907		\$2,232.81*
Intel Xeon E5-2699 v4 @ 2.20GHz	23,200		\$4,413.44
Intel Core i9-7920X @ 2.90GHz	23,196		\$1,019.99
Intel Xeon E5-2696 v3 @ 2.30GHz	22,548		\$2,498.00*
Intel Xeon E5-2699 v3 @ 2.30GHz	22,375		\$4,505.95
AMD Ryzen Threadripper 1950X	22,057		\$449.99
Intel Core i9-7900X @ 3.30GHz	21,991		\$1,399.00
Intel Xeon E5-2697A v4 @ 2.60GHz	21,875		NA

Intel Xeon E5-2698 v4 @ 2.20GHz	21,836	\$3,226.00*
Intel Xeon W-2155 @ 3.30GHz	21,790	\$1,530.39*
Intel Xeon E5-2697 v4 @ 2.30GHz	21,525	\$2,805.00
Intel Xeon W-2150B @ 3.00GHz	21,522	NA
Intel Xeon E5-2673 v4 @ 2.30GHz	21,474	NA
Intel Xeon E5-2697 v3 @ 2.60GHz	21,365	\$2,708.95
Intel Xeon E5-2690 v4 @ 2.60GHz	21,326	\$2,350.88*
Intel Xeon E5-2698 v3 @ 2.30GHz	21,133	\$3,424.02*
Intel Xeon E5-2696 v4 @ 2.20GHz	21,077	\$3,009.95*
Intel Xeon E5-2682 v4 @ 2.50GHz	21,066	NA
Intel Xeon Gold 6136 @ 3.00GHz	21,018	\$2,677.82*
AMD Ryzen Threadripper 2920X	20,262	\$649.99
Intel Xeon E5-2695 v4 @ 2.10GHz	20,258	\$2,573.17*
Intel Core i9-9900K @ 3.60GHz	20,191	\$549.99
Intel Xeon E5-2695 v3 @ 2.30GHz	20,081	\$2,009.99*
Intel Core i7-7900X @ 3.30GHz	20,046	NA
Intel Core i7-6950X @ 3.00GHz	19,970	\$1,575.99
Intel Xeon E5-2687W v4 @ 3.00GHz	19,933	\$2,307.31*
Intel Xeon E5-2689 v4 @ 3.10GHz	19,892	NA
Intel Xeon E5-2680 v4 @ 2.40GHz	19,886	\$1,762.90*
Intel Xeon W-2145 @ 3.70GHz	19,712	\$1,213.72
Intel Xeon Gold 6126 @ 2.60GHz	19,711	\$1,906.36
Intel Xeon Gold 6144 @ 3.50GHz	19,654	\$2,925.00*
Intel Xeon E5-2690 v3 @ 2.60GHz	19,295	\$2,215.86*
Intel Xeon E5-2686 v3 @ 2.00GHz	19,255	NA
Intel Xeon E5-2683 v4 @ 2.10GHz	19,047	\$2,087.48*
AMD Ryzen Threadripper 1920X	19,012	\$399.99
AMD EPYC 7501	18,942	\$4,379.91
Intel Xeon Gold 6130 @ 2.10GHz	18,722	\$1,843.14
Intel Xeon E5-2680 v3 @ 2.50GHz	18,615	\$2,001.00
AMD EPYC 7401P	18,546	\$1,154.99
Intel Core i7-7820X @ 3.60GHz	18,542	\$642.05
AMD EPYC 7551	18,483	\$3,813.99
Intel Xeon W-2140B @ 3.20GHz	18,472	NA
Intel Xeon D-2183IT @ 2.20GHz	18,252	\$1,764.00*
Intel Xeon E5-1681 v3 @ 2.90GHz	18,238	NA
Intel Xeon Gold 5120T @ 2.20GHz	18,145	\$1,727.00*
Intel Xeon Gold 6134 @ 3.20GHz	18,083	\$2,159.00
Intel Xeon E5-2687W v3 @ 3.10GHz	17,720	\$3,008.95
Intel Core i7-6900K @ 3.20GHz	17,698	\$1,198.99
Intel Xeon E5-2676 v3 @ 2.40GHz	17,659	NA
Intel Xeon E5-2697 v2 @ 2.70GHz	17,427	\$2,235.02
Intel Xeon E5-2683 v3 @ 2.00GHz	17,411	\$1,984.99*
Intel Core i7-9700K @ 3.60GHz	17,334	\$409.99
AMD Ryzen 7 PRO 2700X	17,272	NA
AMD Ryzen Threadripper 2970WX	17,210	\$1,299.99
Intel Xeon E5-1680 v4 @ 3.40GHz	17,093	NA
Intel Xeon E5-2673 v3 @ 2.40GHz	17,071	\$700.00*
Intel Xeon E5-2660 v4 @ 2.00GHz	17,069	\$1,760.00*
AMD Ryzen 7 2700X	16,977	\$329.99

Intel Xeon E5-2678 v3 @ 2.50GHz	16,905	NA
Intel Core i7-8086K @ 4.00GHz	16,823	\$552.96*
Intel Xeon E5-2658 v4 @ 2.30GHz	16,754	NA
Intel Xeon E5-1680 v3 @ 3.20GHz	16,633	NA
Intel Xeon E5-2696 v2 @ 2.50GHz	16,620	NA
Intel Xeon E5-2687W v2 @ 3.40GHz	16,487	\$2,105.59
Intel Xeon E5-2690 v2 @ 3.00GHz	16,463	\$435.00
Intel Xeon E5-2667 v4 @ 3.20GHz	16,447	\$2,205.57
Intel Xeon E5-1680 v2 @ 3.00GHz	16,345	NA
Intel Xeon E5-2670 v3 @ 2.30GHz	16,331	\$1,572.00*
Intel Xeon E5-2673 v2 @ 3.30GHz	16,320	NA
Intel Xeon W-2135 @ 3.70GHz	16,311	\$907.61
Intel Xeon Gold 5120 @ 2.20GHz	16,308	\$1,561.00*
Intel Xeon E5-2667 v2 @ 3.30GHz	16,303	\$763.56
Intel Xeon E5-2658 v3 @ 2.20GHz	16,298	NA
Intel Xeon E5-1660 v4 @ 3.20GHz	16,192	\$1,229.52
Intel Xeon E5-2660 v3 @ 2.60GHz	16,184	\$1,808.95
Intel Xeon E5-2667 v3 @ 3.20GHz	16,119	\$2,259.95*
Intel Xeon E-2146G @ 3.50GHz	16,050	\$311.00*
Intel Xeon E5-2692 v2 @ 2.20GHz	16,018	NA
Intel Xeon Gold 5118 @ 2.30GHz	15,985	\$1,348.00*
Intel Core i7-8700K @ 3.70GHz	15,959	\$369.99
Intel Core i7-5960X @ 3.00GHz	15,946	\$769.99
Intel Xeon E5-2650 v4 @ 2.20GHz	15,912	\$1,279.07*
AMD Ryzen 7 PRO 2700	15,897	NA
Intel Xeon E5-4657L v2 @ 2.40GHz	15,896	\$3,000.00*
AMD Ryzen Threadripper 1900X	15,874	\$316.38
Intel Xeon E5-2695 v2 @ 2.40GHz	15,847	\$1,779.95
AMD EPYC 7351P	15,820	\$890.12
Intel Xeon E5-2680 v2 @ 2.80GHz	15,795	\$259.00
Intel Xeon E5-4660 v3 @ 2.10GHz	15,556	\$4,800.00*
Intel Xeon E5-4627 v4 @ 2.60GHz	15,516	\$2,225.00*
Intel Xeon E-2186G @ 3.80GHz	15,406	\$450.00*
AMD Ryzen 7 1800X	15,395	\$276.36
AMD Ryzen 7 PRO 1700X	15,349	NA
Intel Xeon E5-2640 v4 @ 2.40GHz	15,331	\$936.99
Intel Xeon Silver 4116 @ 2.10GHz	15,248	\$1,121.16*
Intel Xeon Silver 4123 @ 3.00GHz	15,185	NA
Intel Xeon E5-2675 v3 @ 1.80GHz	15,156	NA
Intel Core i7-8700 @ 3.20GHz	15,135	\$403.37
Intel Xeon Gold 6128 @ 3.40GHz	15,022	\$1,842.27*
Intel Xeon E5-2685 v3 @ 2.60GHz	15,004	NA
AMD Ryzen 7 2700	14,987	\$249.99
Intel Xeon E5-2670 v2 @ 2.50GHz	14,966	\$489.00*
Intel Xeon E5-2650 v3 @ 2.30GHz	14,841	\$2,009.92*
AMD Ryzen 7 PRO 1700	14,708	NA
Intel Xeon D-1567 @ 2.10GHz	14,693	NA
Intel Xeon E5-2649 v3 @ 2.30GHz	14,677	NA
AMD Ryzen 7 1700X	14,663	\$193.95
AMD Ryzen 5 PRO 2600	14,645	NA

Intel Xeon E5-2618L v4 @ 2.20GHz	14,592	\$779.00*
Intel Xeon E5-1660 v3 @ 3.00GHz	14,565	\$1,616.49*
Intel Core i7-7800X @ 3.50GHz	14,536	\$356.94
Intel Core i9-8950HK @ 2.90GHz	14,514	\$583.00*
Intel Xeon Silver 4114 @ 2.20GHz	14,484	\$744.99*
Intel Xeon E-2186M @ 2.90GHz	14,440	\$623.00*
Intel Xeon E-2176G @ 3.70GHz	14,409	\$362.00*
Intel Xeon E5-2687W @ 3.10GHz	14,381	\$591.46
Intel Core i7-6850K @ 3.60GHz	14,370	\$549.99
AMD Ryzen 5 2600X	14,351	\$245.82
AMD Ryzen Threadripper 2990X	14,324	NA
Intel Xeon E5-1650 v4 @ 3.60GHz	14,228	\$629.99*
Intel Xeon E5-4627 v3 @ 2.60GHz	14,221	\$2,400.00*
Intel Xeon E5-2658 v2 @ 2.40GHz	14,128	NA
Intel Xeon E5-2650L v4 @ 1.70GHz	14,093	\$1,496.00*
Intel Xeon E-2176M @ 2.70GHz	14,057	\$450.00*
Intel Xeon W-2133 @ 3.60GHz	14,053	\$617.00*
Intel Xeon E5-2663 v3 @ 2.80GHz	13,994	NA
Intel Xeon E5-2640 v3 @ 2.60GHz	13,978	\$1,254.25
Intel Xeon D-1587 @ 1.70GHz	13,950	NA
Intel Xeon E5-2630 v4 @ 2.20GHz	13,884	\$659.99
Intel Xeon D-2143IT @ 2.20GHz	13,816	\$566.00*
Intel Xeon E5-2643 v3 @ 3.40GHz	13,801	\$737.82
Intel Core i7-4960X @ 3.60GHz	13,789	\$769.99
AMD Ryzen 7 1700	13,745	\$216.00
Intel Xeon E5-2690 @ 2.90GHz	13,722	\$159.00
Intel Xeon E5-2648L v4 @ 1.80GHz	13,654	NA
Intel Xeon E5-1660 v2 @ 3.70GHz	13,654	\$1,808.95*
Intel Core i7-5930K @ 3.50GHz	13,633	\$498.98
Intel Xeon E5-4669 v4 @ 2.20GHz	13,626	NA
Intel Xeon E5-2643 v4 @ 3.40GHz	13,618	\$1,639.98
Intel Xeon E5-1650 v3 @ 3.50GHz	13,611	\$666.99
Intel Core i7-6800K @ 3.40GHz	13,591	\$419.99
AMD Ryzen 5 2600	13,532	\$159.99
Intel Xeon E5-2650L v3 @ 1.80GHz	13,513	\$1,010.00*
Intel Xeon E5-2660 v2 @ 2.20GHz	13,449	\$213.01
Intel Core i5-9600K @ 3.70GHz	13,430	\$277.89
Intel Xeon E5-2689 @ 2.60GHz	13,427	NA
Intel Xeon E5-2628L v4 @ 1.90GHz	13,268	\$1,364.00*
Intel Core i7-8850H @ 2.60GHz	13,239	\$395.00*
AMD Ryzen 5 1600X	13,232	\$166.46
Intel Xeon E5-2650 v2 @ 2.60GHz	13,104	\$254.91
Intel Core i7-4930K @ 3.40GHz	13,016	\$599.39
Intel Core i7-5820K @ 3.30GHz	12,990	\$299.99
Intel Xeon E5-2630L v4 @ 1.80GHz	12,847	NA
Intel Xeon E5-2470 v2 @ 2.40GHz	12,836	\$2,250.00*
Intel Xeon E5-2643 v2 @ 3.50GHz	12,824	\$181.95
Intel Xeon E5-2630 v3 @ 2.40GHz	12,804	\$489.00
Intel Core i5-8600K @ 3.60GHz	12,788	\$254.99
Intel Xeon E5-1650 v2 @ 3.50GHz	12,723	\$151.65

Intel Xeon E5-4640 v3 @ 1.90GHz	12,703	NA
Intel Core i7-3970X @ 3.50GHz	12,671	\$909.99*
Intel Core i5-8600 @ 3.10GHz	12,639	\$244.47*
Intel Xeon E5-2680 @ 2.70GHz	12,638	\$111.84
Intel Core i7-3960X @ 3.30GHz	12,611	\$799.99
Intel Core i7-8700T @ 2.40GHz	12,488	\$419.00*
Intel Core i7-8750H @ 2.20GHz	12,459	\$395.00*
Intel Xeon W-2125 @ 4.00GHz	12,389	\$499.96
Intel Xeon E5-1660 @ 3.30GHz	12,369	\$1,226.66*
Intel Xeon E5-4655 v3 @ 2.90GHz	12,292	\$4,616.00*
AMD Ryzen 5 1600	12,264	\$180.05
Intel Core i7-7740X @ 4.30GHz	12,244	\$356.99
AMD Ryzen 5 PRO 1600	12,213	NA
Intel Xeon E5-2618L v3 @ 2.30GHz	12,186	NA
Intel Xeon E5-2670 @ 2.60GHz	12,137	\$96.48
Intel Xeon E5-4650 @ 2.70GHz	12,117	\$95.49*
Intel Xeon E-2174G @ 3.80GHz	12,108	\$328.00*
Intel Core i7-7700K @ 4.20GHz	12,040	\$348.88
Intel Xeon Silver 4110 @ 2.10GHz	12,025	\$529.86
Intel Core i7-3930K @ 3.20GHz	11,989	\$398.98
Intel Xeon E5-2628L v3 @ 2.00GHz	11,965	NA
Intel Xeon E3-1285 v6 @ 4.10GHz	11,955	\$450.00*
Intel Core i7-8559U @ 2.70GHz	11,938	NA
Intel Core i5-8500 @ 3.00GHz	11,937	\$229.00
Intel Xeon E5-4650L @ 2.60GHz	11,821	\$8,684.50*
Intel Xeon E5-1650 @ 3.20GHz	11,745	\$175.00
Intel Core i5-8400 @ 2.80GHz	11,665	\$270.55
Intel Xeon E5-2665 @ 2.40GHz	11,599	\$170.65
Intel Xeon E5-2648L v3 @ 1.80GHz	11,392	\$1,360.26*
Intel Xeon E3-1280 v6 @ 3.90GHz	11,371	\$459.07
Intel Xeon E5-2620 v4 @ 2.10GHz	11,364	\$439.98
Intel Xeon E5-2651 v2 @ 1.80GHz	11,275	NA
Intel Core i7-4790K @ 4.00GHz	11,182	\$306.99
Intel Xeon E3-1270 v6 @ 3.80GHz	11,135	\$333.61
Intel Xeon E3-1275 v6 @ 3.80GHz	11,113	\$367.97
Intel Core i7-6700K @ 4.00GHz	11,111	\$328.00
Intel Xeon Gold 5122 @ 3.60GHz	11,104	\$1,288.99*
Intel Xeon E5-2660 @ 2.20GHz	11,098	\$102.00
Intel Xeon E5-4648 v3 @ 1.70GHz	11,097	NA
Intel Core i7-8809G @ 3.10GHz	11,075	NA
Intel Xeon D-1541 @ 2.10GHz	11,056	NA
Intel Xeon E3-1285L v4 @ 3.40GHz	11,048	NA
Intel Xeon E5-2629 v3 @ 2.40GHz	11,022	NA
Intel Core i7-5775C @ 3.30GHz	10,997	\$449.99
Intel Core i5-8259U @ 2.30GHz	10,947	NA
Intel Core i7-5950HQ @ 2.90GHz	10,932	NA
Intel Core i5-8600T @ 2.30GHz	10,913	\$373.99*
Intel Core i7-5775R @ 3.30GHz	10,863	NA
Intel Xeon Silver 4109T @ 2.00GHz	10,854	\$501.00*
Intel Xeon Silver 4108 @ 1.80GHz	10,769	\$465.42