

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!

CPU Mark | Price Performance
(Click to select desired chart)

		Price (USD)
Intel Xeon E5-2679 v4 @ 2.50GHz	25,236	\$2,702.00*
Intel Xeon E5-2699 v4 @ 2.20GHz	23,362	\$1,810.00
Intel Xeon E5-2699 v3 @ 2.30GHz	22,645	\$3,410.00*
Intel Core i9-7900X @ 3.30GHz	22,629	\$1,061.99
Intel Xeon E5-2696 v3 @ 2.30GHz	22,279	\$2,498.00*
Intel Xeon E5-2697 v4 @ 2.30GHz	22,228	\$2,805.00*
Intel Xeon E5-2696 v4 @ 2.20GHz	22,024	\$2,210.00*
Intel Xeon E5-2690 v4 @ 2.60GHz	21,801	\$2,133.99*
Intel Xeon E5-2698 v4 @ 2.20GHz	21,789	\$3,226.00*
Intel Xeon E5-2697 v3 @ 2.60GHz	21,608	\$2,290.00
Intel Xeon E5-2698 v3 @ 2.30GHz	21,149	\$2,660.00
Intel Xeon E5-2673 v4 @ 2.30GHz	21,073	NA
Intel Xeon E5-2695 v4 @ 2.10GHz	20,582	\$2,609.84*
Intel Xeon E5-2695 v3 @ 2.30GHz	20,431	\$2,497.62*
Intel Xeon E5-2687W v4 @ 3.00GHz	20,102	\$2,337.00*
Intel Core i7-6950X @ 3.00GHz	20,014	\$1,599.00
Intel Xeon E5-2680 v4 @ 2.40GHz	19,892	\$1,791.99
Intel Xeon E5-2689 v4 @ 3.10GHz	19,521	NA
Intel Xeon E5-2690 v3 @ 2.60GHz	19,320	\$1,909.00
Intel Xeon E5-2686 v3 @ 2.00GHz	19,255	NA
Intel Xeon E5-2660 v4 @ 2.00GHz	18,816	\$1,499.99*
Intel Xeon E5-2680 v3 @ 2.50GHz	18,779	\$1,455.00
Intel Xeon E5-1681 v3 @ 2.90GHz	18,282	NA
Intel Xeon E5-4660 v3 @ 2.10GHz	18,007	\$4,800.00*
Intel Core i7-6900K @ 3.20GHz	17,994	\$1,049.99
Intel Xeon E5-2676 v3 @ 2.40GHz	17,795	NA
Intel Xeon E5-2687W v3 @ 3.10GHz	17,779	\$2,404.69*
Intel Xeon E5-2683 v3 @ 2.00GHz	17,486	\$1,984.99*
Intel Xeon E5-2697 v2 @ 2.70GHz	17,377	\$2,387.09
Intel Xeon E5-1680 v2 @ 3.00GHz	17,198	NA
Intel Xeon E5-2673 v3 @ 2.40GHz	16,982	\$700.00*
Intel Xeon E5-2678 v3 @ 2.50GHz	16,905	NA
Intel Xeon E5-1680 v4 @ 3.40GHz	16,694	NA
Intel Xeon E5-2696 v2 @ 2.50GHz	16,681	NA
Intel Xeon E5-1680 v3 @ 3.20GHz	16,673	NA
Intel Xeon E5-2670 v3 @ 2.30GHz	16,619	\$1,450.00
Intel Xeon E5-2667 v2 @ 3.30GHz	16,584	\$868.00
Intel Xeon E5-2687W v2 @ 3.40GHz	16,565	\$2,440.06
Intel Xeon E5-2690 v2 @ 3.00GHz	16,546	\$2,697.01*
Intel Xeon E5-1660 v4 @ 3.20GHz	16,462	NA

Intel Xeon E5-2667 v4 @ 3.20GHz	16,389	\$2,054.99*
Intel Xeon E5-2658 v3 @ 2.20GHz	16,351	NA
Intel Xeon E5-2680 v2 @ 2.80GHz	16,341	\$701.95
Intel Xeon E5-2673 v2 @ 3.30GHz	16,320	NA
Intel Xeon E5-2658 v4 @ 2.30GHz	16,290	NA
Intel Xeon E5-2660 v3 @ 2.60GHz	16,161	\$1,260.00
Intel Xeon E5-2667 v3 @ 3.20GHz	16,101	\$2,259.95*
Intel Xeon E5-2692 v2 @ 2.20GHz	16,018	NA
Intel Xeon E5-2650 v4 @ 2.20GHz	15,994	\$1,299.78
Intel Core i7-5960X @ 3.00GHz	15,985	\$1,073.52
Intel Xeon E5-2695 v2 @ 2.40GHz	15,881	\$2,410.16*
AMD Ryzen 7 PRO 1700X	15,823	NA
Intel Xeon E5-4627 v4 @ 2.60GHz	15,516	NA
AMD Ryzen 7 1800X	15,409	\$419.99
Intel Xeon E5-2640 v4 @ 2.40GHz	15,348	\$969.00
Intel Xeon E5-2675 v3 @ 1.80GHz	15,258	NA
Intel Xeon E5-2670 v2 @ 2.50GHz	15,060	\$1,549.70
Intel Xeon D-1567 @ 2.10GHz	15,028	NA
Intel Xeon E5-2650 v3 @ 2.30GHz	14,951	\$975.00
AMD Ryzen 7 1700X	14,670	\$313.89
Intel Xeon E5-2687W @ 3.10GHz	14,418	\$720.88
Intel Core i7-6850K @ 3.60GHz	14,377	\$399.99
Intel Xeon E5-1650 v4 @ 3.60GHz	14,288	\$656.34*
Intel Xeon E5-1660 v3 @ 3.00GHz	14,267	\$1,616.49*
Intel Xeon E5-4627 v3 @ 2.60GHz	14,219	\$2,400.00*
Intel Xeon E5-2690 @ 2.90GHz	14,178	\$433.25
Intel Xeon E5-2685 v3 @ 2.60GHz	14,154	NA
Intel Xeon E5-2658 v2 @ 2.40GHz	14,128	NA
Intel Xeon E5-2648L v4 @ 1.80GHz	14,026	NA
Intel Xeon E5-2640 v3 @ 2.60GHz	14,005	\$975.24*
Intel Xeon E5-2630 v4 @ 2.20GHz	13,999	\$687.10
Intel Xeon E5-2663 v3 @ 2.80GHz	13,994	NA
Intel Core i7-4960X @ 3.60GHz	13,858	\$2,350.00
Intel Xeon E5-2643 v3 @ 3.40GHz	13,852	\$1,496.29*
AMD Ryzen 7 1700	13,800	\$299.99
Intel Xeon E5-2689 @ 2.60GHz	13,747	NA
Intel Xeon E5-1660 v2 @ 3.70GHz	13,735	\$1,808.95*
Intel Core i7-5930K @ 3.50GHz	13,647	\$613.17
Intel Core i7-6800K @ 3.40GHz	13,636	\$329.99
Intel Xeon E5-4669 v4 @ 2.20GHz	13,626	NA
Intel Xeon E5-1650 v3 @ 3.50GHz	13,560	\$660.68
Intel Xeon D-1587 @ 1.70GHz	13,489	NA
Intel Xeon E5-2660 v2 @ 2.20GHz	13,435	\$850.00*
Intel Xeon E5-2643 v4 @ 3.40GHz	13,395	\$1,697.48
Intel Xeon E5-2650L v3 @ 1.80GHz	13,248	\$1,010.00*
Intel Core i7-7800X @ 3.50GHz	13,163	\$415.99
AMD Ryzen 5 1600X	13,106	\$234.99
Intel Core i7-4930K @ 3.40GHz	13,063	\$619.99
Intel Xeon E5-2650 v2 @ 2.60GHz	13,053	\$688.78
Intel Xeon E5-2628L v4 @ 1.90GHz	13,041	\$1,364.00*

Intel Core i7-5820K @ 3.30GHz	12,997	\$409.99
Intel Core i7-7740X @ 4.30GHz	12,885	\$349.99
Intel Xeon E5-2680 @ 2.70GHz	12,869	\$240.00
Intel Xeon E5-2630L v4 @ 1.80GHz	12,847	NA
Intel Xeon E5-2630 v3 @ 2.40GHz	12,838	\$629.99
Intel Core i7-3960X @ 3.30GHz	12,684	\$800.74
Intel Xeon E5-1650 v2 @ 3.50GHz	12,660	\$716.75
Intel Core i7-3970X @ 3.50GHz	12,647	\$659.99
Intel Xeon E5-1660 @ 3.30GHz	12,515	\$289.90*
Intel Xeon E5-2618L v3 @ 2.30GHz	12,508	NA
Intel Xeon E5-2628L v3 @ 2.00GHz	12,405	NA
AMD Ryzen 5 1600	12,357	\$209.99
Intel Xeon E5-2648L v3 @ 1.80GHz	12,332	NA
Intel Xeon E5-2670 @ 2.60GHz	12,275	\$145.70
Intel Core i7-7700K @ 4.20GHz	12,165	\$339.99
Intel Xeon E5-4640 v3 @ 1.90GHz	12,121	NA
Intel Core i7-3930K @ 3.20GHz	12,025	\$610.75
Intel Xeon E5-4650 @ 2.70GHz	11,960	\$799.00*
Intel Xeon E5-2665 @ 2.40GHz	11,941	\$141.50*
Intel Xeon E5-4650L @ 2.60GHz	11,821	NA
Intel Xeon E5-1650 @ 3.20GHz	11,791	\$175.00
Intel Xeon E5-2643 v2 @ 3.50GHz	11,735	\$2,200.00*
Intel Xeon E3-1275 v6 @ 3.80GHz	11,445	\$354.99
Intel Xeon E5-2620 v4 @ 2.10GHz	11,391	\$415.00
Intel Xeon D-1541 @ 2.10GHz	11,333	NA
Intel Xeon E3-1270 v6 @ 3.80GHz	11,324	\$357.99
Intel Xeon E3-1280 v6 @ 3.90GHz	11,262	NA
Intel Xeon E3-1285L v4 @ 3.40GHz	11,224	NA
Intel Core i7-4790K @ 4.00GHz	11,194	\$391.99
Intel Xeon E5-2651 v2 @ 1.80GHz	11,176	NA
Intel Xeon E5-2660 @ 2.20GHz	11,144	\$85.62
Intel Core i7-6700K @ 4.00GHz	11,108	\$339.99
Intel Xeon E5-4648 v3 @ 1.70GHz	11,097	NA
Intel Xeon E3-1230 v6 @ 3.50GHz	11,081	\$269.99
Intel Core i7-5775C @ 3.30GHz	11,044	\$383.08
Intel Xeon E5-2629 v3 @ 2.40GHz	10,984	NA
Intel Xeon E3-1575M v5 @ 3.00GHz	10,966	NA
Intel Core i7-5950HQ @ 2.90GHz	10,951	NA
Intel Core i7-5775R @ 3.30GHz	10,851	NA
Intel Core i7-7700 @ 3.60GHz	10,798	\$304.99
Intel Xeon E3-1535M v6 @ 3.10GHz	10,798	NA
AMD Opteron 6386 SE	10,748	\$2,407.51*
AMD Ryzen 5 1500X	10,736	\$189.00
Intel Xeon E3-1280 v5 @ 3.70GHz	10,644	\$654.99*
Intel Xeon E3-1545M v5 @ 2.90GHz	10,603	NA
AMD Ryzen 5 PRO 1500	10,599	NA
Intel Xeon D-1540 @ 2.00GHz	10,573	NA
Intel Xeon E5-4640 @ 2.40GHz	10,523	\$2,730.00*
Intel Xeon E3-1515M v5 @ 2.80GHz	10,509	NA
Intel Xeon E5-2630 v2 @ 2.60GHz	10,453	\$529.52

Intel Xeon E5-2667 @ 2.90GHz	10,380	\$685.12*
AMD FX-9590 Eight-Core	10,349	\$129.99
Intel Xeon E3-1275 v5 @ 3.60GHz	10,346	\$362.67*
Intel Xeon E3-1245 v5 @ 3.50GHz	10,341	\$337.91
Intel Xeon E3-1240 v5 @ 3.50GHz	10,333	\$321.88
Intel Xeon E5-1630 v4 @ 3.70GHz	10,332	NA
Intel Xeon E5-2637 v3 @ 3.50GHz	10,281	\$1,295.95*
Intel Xeon E3-1285 v3 @ 3.60GHz	10,252	NA
Intel Xeon E3-1276 v3 @ 3.60GHz	10,244	\$364.16
Intel Xeon E3-1281 v3 @ 3.70GHz	10,234	\$914.52*
Intel Core i7-7820HK @ 2.90GHz	10,231	NA
Intel Xeon E5-1630 v3 @ 3.70GHz	10,209	\$415.49
Intel Xeon E3-1270 v5 @ 3.60GHz	10,207	\$349.50
Intel Xeon E5-2650 @ 2.00GHz	10,190	\$102.13
Intel Xeon E5-2450 @ 2.10GHz	10,186	\$503.50
Intel Core i7-4770K @ 3.50GHz	10,109	\$399.00
AMD Opteron 6380	10,082	\$399.95
Intel Core i7-4980HQ @ 2.80GHz	10,081	NA
Intel Xeon E5-1620 v4 @ 3.50GHz	10,075	\$318.98
Intel Xeon E3-1260L v5 @ 2.90GHz	10,067	\$323.17
Intel Xeon E3-1271 v3 @ 3.60GHz	10,063	\$616.53*
Intel Xeon E5-2470 @ 2.30GHz	10,061	\$1,479.99*
Intel Xeon E5-2637 v4 @ 3.50GHz	10,051	\$1,135.26
Intel Xeon E3-1241 v3 @ 3.50GHz	10,044	\$324.86
Intel Xeon E3-1505M v6 @ 3.00GHz	10,041	NA
Intel Core i7-7920HQ @ 3.10GHz	10,037	NA
Intel Core i7-6700 @ 3.40GHz	10,037	\$309.99
Intel Core i7-4790 @ 3.60GHz	9,996	\$339.98
Intel Xeon E3-1246 v3 @ 3.50GHz	9,993	\$309.99
Intel Xeon E3-1285L v3 @ 3.10GHz	9,984	NA
Intel Xeon E5-2620 v3 @ 2.40GHz	9,977	\$436.64*
Intel Xeon E3-1245 v6 @ 3.70GHz	9,955	\$318.96
Intel Xeon E5-2640 v2 @ 2.00GHz	9,914	\$699.95
Intel Core i7-4940MX @ 3.10GHz	9,912	\$1,008.95*
Intel Core i7-4771 @ 3.50GHz	9,866	\$539.89*
Intel Xeon E3-1275 v3 @ 3.50GHz	9,863	\$400.99
Intel Xeon E3-1290 V2 @ 3.70GHz	9,862	\$885.00*
Intel Xeon E3-1270 v3 @ 3.50GHz	9,831	\$369.99*
Intel Core i7-4770R @ 3.20GHz	9,828	NA
Intel Core i7-4770 @ 3.40GHz	9,798	\$398.89
Intel Core i7-995X @ 3.60GHz	9,791	NA
Intel Core i7-4960HQ @ 2.60GHz	9,770	\$623.00*
Intel Xeon E5-1620 v3 @ 3.50GHz	9,758	\$354.08
Intel Xeon E3-1280 V2 @ 3.60GHz	9,746	\$644.99*
Intel Core i7-4820K @ 3.70GHz	9,740	\$349.99
Intel Xeon E3-1280 v3 @ 3.60GHz	9,720	\$800.49*
Intel Xeon E3-1240 v3 @ 3.40GHz	9,706	\$299.99*
Intel Core i7-6920HQ @ 2.90GHz	9,697	NA
Intel Core i7-6770HQ @ 2.60GHz	9,685	\$1,001.88*
Intel Xeon E3-1230 v5 @ 3.40GHz	9,655	\$339.91

Intel Xeon E3-1231 v3 @ 3.40GHz	9,631	\$283.93
Intel Xeon E5-2640 @ 2.50GHz	9,623	\$409.95
AMD Opteron 6287 SE	9,595	NA
Intel Core i7-4790S @ 3.20GHz	9,588	\$468.89
Intel Xeon E3-1245 v3 @ 3.40GHz	9,579	\$534.07
Intel Core i7-3770K @ 3.50GHz	9,545	\$349.99
AMD FX-9370 Eight-Core	9,523	\$139.99
Intel Core i7-4930MX @ 3.00GHz	9,521	\$1,096.00*
Intel Xeon E5-1620 v2 @ 3.70GHz	9,489	\$329.00
Intel Xeon E5-2658 @ 2.10GHz	9,484	\$1,462.00*
Intel Xeon E3-1270 V2 @ 3.50GHz	9,462	\$253.22
Intel Core i7-5850HQ @ 2.70GHz	9,459	NA
Intel Core i7-7700T @ 2.90GHz	9,457	\$299.00
Intel Xeon E5-2637 v2 @ 3.50GHz	9,452	\$1,089.70*
Intel Core i7-4910MQ @ 2.90GHz	9,438	\$499.95*
Intel Xeon E5-2440 v2 @ 1.90GHz	9,425	\$400.00*
Intel Core i7-7820HQ @ 2.90GHz	9,420	NA
AMD Opteron 6376	9,414	\$741.37
Intel Xeon W3690 @ 3.47GHz	9,406	\$1,885.51*
Intel Xeon E5-2628L v2 @ 1.90GHz	9,405	NA
Intel Xeon E3-1585 v5 @ 3.50GHz	9,403	NA
Intel Xeon E3-1286 v3 @ 3.70GHz	9,388	\$839.00*
Intel Core i7-4870HQ @ 2.50GHz	9,354	NA
Intel Xeon E3-1275 V2 @ 3.50GHz	9,334	\$808.11
Intel Xeon E3-1535M v5 @ 2.90GHz	9,329	NA
Intel Core i7-4770S @ 3.10GHz	9,329	\$689.79
Intel Core i7-4860HQ @ 2.40GHz	9,319	NA
Intel Xeon E5-2440 @ 2.40GHz	9,319	\$400.00*
Intel Core i7-3940XM @ 3.00GHz	9,317	\$599.95
Intel Xeon E3-1230 v3 @ 3.30GHz	9,315	\$264.48*
Intel Core i7-3770 @ 3.40GHz	9,311	\$318.65
Intel Core i5-7600K @ 3.80GHz	9,286	\$235.00
Intel Core i7-3920XM @ 2.90GHz	9,226	\$1,096.00*
Intel Xeon W3680 @ 3.33GHz	9,211	\$1,108.95*
Intel Xeon E3-1240 V2 @ 3.40GHz	9,201	\$303.87
Intel Core i7-990X @ 3.47GHz	9,160	\$1,104.02
Intel Xeon E5-2623 v3 @ 3.00GHz	9,133	\$566.84*
AMD Opteron 6282 SE	9,116	\$1,089.99*
Intel Core i7-6820HK @ 2.70GHz	9,105	NA
Intel Xeon E3-1245 V2 @ 3.40GHz	9,097	\$461.92*
Intel Core i7-6700TE @ 2.40GHz	9,091	NA
Intel Xeon E5-1620 @ 3.60GHz	9,085	\$365.72
Intel Core i7-4900MQ @ 2.80GHz	9,077	\$609.29*
Intel Core i7-4850HQ @ 2.30GHz	9,066	\$434.00*
Intel Xeon X5690 @ 3.47GHz	9,059	\$204.95
Intel Core i7-6700T @ 2.80GHz	9,050	\$345.00
Intel Core i7-4790T @ 2.70GHz	9,025	\$359.00*
AMD Opteron 6276	9,011	\$158.48
AMD FX-8370 Eight-Core	9,004	\$139.98
Intel Core i7-3820 @ 3.60GHz	8,997	\$399.73

Intel Core i7-7700HQ @ 2.80GHz	8,985	NA
AMD FX-8350 Eight-Core	8,942	\$127.95
Intel Core i7-4770HQ @ 2.20GHz	8,939	NA
Intel Xeon E3-1505M v5 @ 2.80GHz	8,928	NA
Intel Core i5-7600 @ 3.50GHz	8,906	\$219.89
Intel Xeon E5-2630 @ 2.30GHz	8,898	\$588.07*
Intel Core i7-980X @ 3.33GHz	8,879	\$799.99
Intel Core i7-3770S @ 3.10GHz	8,875	\$213.90
Intel Xeon E3-1230 V2 @ 3.30GHz	8,848	\$359.95
Intel Core i7-3840QM @ 2.80GHz	8,840	\$405.00*
Intel Core i7-6820EQ @ 2.80GHz	8,824	NA
Intel Core i7-6820HQ @ 2.70GHz	8,793	NA
Intel Core i7-980 @ 3.33GHz	8,791	\$699.99
Intel Core i7-2700K @ 3.50GHz	8,762	\$309.00
Intel Xeon X5680 @ 3.33GHz	8,748	\$179.47
Intel Xeon E3-1290 @ 3.60GHz	8,704	\$885.00*
Intel Xeon E3-1265L v3 @ 2.50GHz	8,691	\$709.95
Intel Xeon E5-2650L @ 1.80GHz	8,676	\$109.00
Intel Xeon E5-2620 v2 @ 2.10GHz	8,672	\$363.76
Intel Core i7-4770T @ 2.50GHz	8,664	\$609.95*
Intel Core i7-4810MQ @ 2.80GHz	8,655	\$424.95*
Intel Xeon X5679 @ 3.20GHz	8,652	NA
Intel Xeon D-1528 @ 1.90GHz	8,612	NA
Intel Xeon E5-2430 v2 @ 2.50GHz	8,608	\$295.96*
Intel Xeon E3-1275L v3 @ 2.70GHz	8,571	NA
Intel Xeon E5-2420 v2 @ 2.20GHz	8,570	\$479.90
Intel Xeon X5675 @ 3.07GHz	8,527	\$408.95
Intel Core i7-3820QM @ 2.70GHz	8,498	\$486.99*
Intel Core i7-4800MQ @ 2.70GHz	8,493	\$509.95*
AMD Ryzen 5 1400	8,484	\$159.99
Intel Xeon E5-2643 @ 3.30GHz	8,479	\$168.20
Intel Core i7-2600K @ 3.40GHz	8,479	\$289.00
Intel Xeon E3-1280 @ 3.50GHz	8,473	\$1,089.13*
Intel Core i7-970 @ 3.20GHz	8,447	\$550.00
Intel Core i5-7600T @ 2.80GHz	8,434	\$220.61
Intel Core i7-5700HQ @ 2.70GHz	8,382	NA
Intel Xeon E3-1275 @ 3.40GHz	8,348	\$364.99*
Intel Core i7-4760HQ @ 2.10GHz	8,340	NA
Intel Core i7-3740QM @ 2.70GHz	8,327	\$568.57*
Intel Core i7-4750HQ @ 2.00GHz	8,293	