



CPU Benchmarks

Over 1,000,000 CPUs benchmarked

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/i9 CPUs, AMD Ryzen/Threadripper CPUs and AMD Epyc with multiple cores. Intel processors vs AMD chips - find out which CPUs performance is best for your new gaming rig or server!


 **CPUS**

 **High End**

High Mid Range


Low Mid Range

Low End


 **Best Value (On Market)**

Best Value XY Scatter

Best Value (All time)

 **New Desktop**

New Laptop

 **Single Thread**

Systems with Multiple CPUs


Overclocked

Power Performance


CPU Mark by Socket Type


Cross-Platform CPU Performance

Top Gaming CPUs

 **CPU Mega List**

Search Model

 **Compare** ¹

 **Common**

CPU Mark

Price Performance

PassMark - CPU Mark

High End CPUs

Updated 27th of January 2023

CPU	CPU Mark	Price (USD)
AMD EPYC 9654	124,119	\$11,805.00*
AMD Ryzen Threadripper PRO 5995WX	95,829	\$6,399.00
AMD EPYC 7773X	90,731	\$4,799.00
AMD EPYC 7763	85,944	\$3,800.00
AMD EPYC 7J13	85,661	NA
AMD EPYC 7713	85,521	\$3,699.99
AMD EPYC 7713P	83,439	\$4,550.00
AMD Ryzen Threadripper PRO 3995WX	83,044	\$7,000.00
AMD EPYC 7V13	82,878	NA
AMD Ryzen Threadripper 3990X	81,252	\$7,462.95
AMD EPYC 9354P	79,341	NA
AMD EPYC 7B13	77,460	NA
AMD EPYC 7643	76,455	\$4,550.00*
AMD Ryzen Threadripper PRO 5975WX	76,398	\$3,289.99
AMD EPYC 7662	73,143	\$3,999.99*
AMD EPYC 7702	70,628	\$2,320.00
AMD EPYC 75F3	68,505	\$4,999.00
AMD EPYC 7543P	67,081	\$2,350.00*
AMD Ryzen Threadripper PRO 5965WX	66,230	\$2,200.00
AMD EPYC 7742	65,629	\$2,098.00
AMD EPYC 7R32	64,727	NA
AMD Ryzen Threadripper 3970X	63,506	\$2,949.99
AMD Ryzen 9 7950X	63,438	\$589.99
Intel Core i9-13900KS	63,125	\$729.99
AMD Ryzen Threadripper PRO 3975WX	62,817	\$2,999.00
Intel Xeon Platinum 8380 @ 2.30GHz	62,318	\$8,978.00*

Most Benchmarked

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Market Share

Year on Year Performance

AMD EPYC 7702P	62,278	\$1,898.82*
AMD EPYC 74F3	60.472	\$3.100.00
Intel Core i9-13900K	60,037	\$599.97
AMD EPYC 7513	59,988	\$2,840.00*
Intel Core i9-13900KF	59,735	\$559.99
Intel Core i9-13900F	58,554	\$569.99
AMD EPYC 7443P	57,645	\$1,683.99*
AMD EPYC 7542	56,728	\$1,298.65
AMD EPYC 7543	56,562	\$3,761.00*
AMD EPYC 7532	55,483	\$1,339.96*
AMD Ryzen Threadripper 3960X	54,758	\$1,634.99
Intel Xeon Platinum 8358 @ 2.60GHz	54,416	\$5,097.75*
Intel Xeon W-3375 @ 2.50GHz	53,266	\$4,499.00*
Intel Xeon Gold 6348 @ 2.60GHz	52,276	\$2,349.00
AMD Ryzen 9 7900X	52,120	\$419.99
Intel Xeon Platinum 8375C @ 2.90GHz	51,836	NA
AMD EPYC 7443	51,764	\$2,230.99*
Intel Core i9-13900T	51,210	\$549.00*
Intel Xeon Gold 6314U @ 2.30GHz	51,014	\$2,782.00*
Intel Core i9-13900	50,765	\$698.72
AMD EPYC 7413	50,223	\$1,997.99*
AMD EPYC 7453	50,209	\$2,101.14
AMD Ryzen Threadripper PRO 5955WX	49,585	\$1,299.99
Intel Xeon Platinum 8347C @ 2.10GHz	49,386	NA
AMD EPYC 7502P	49,191	\$1,699.96
AMD EPYC 7502	49,178	\$1,595.00
AMD Ryzen 9 7900	48,886	\$456.27
Intel Xeon W-3345 @ 3.00GHz	48,261	\$2,499.00*
AMD EPYC 7402	47,668	\$3,988.00
Intel Xeon Gold 6342 @ 2.80GHz	47,320	\$3,272.00*
Intel Core i7-13700K	46,951	\$421.92
Intel Xeon Gold 6338N @ 2.20GHz	46,583	\$4,671.69*
Intel Core i7-13700KF	46,525	\$398.93
ARM Neoverse-N1 128 Core 3000 MHz	46,271	NA
AMD EPYC 73F3	46,085	\$3,977.49
AMD Ryzen 9 5950X	45,889	\$498.00
Intel Xeon Gold 6336Y @ 2.40GHz	45,517	\$2,857.95*
Intel Core i9-12900KS	44,585	\$512.99
Intel Xeon Gold 6312U @ 2.40GHz	44,275	\$1,809.59*
AMD EPYC 7551P	43,437	\$368.95
Intel Xeon Gold 6330 @ 2.00GHz	43,056	\$1,315.00
AMD EPYC 7343	42,635	\$1,699.99*
AMD EPYC 7402P	42,419	\$1,334.19
AMD EPYC 7601	42,244	\$875.87
AMD EPYC 7313P	42,025	\$913.00*
AMD EPYC 7452	41,871	\$2,243.00
Intel Core i9-12900K	41,577	\$416.53

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Intel Core i9-12900KF	41,469	\$419.92
Intel Xeon Gold 6354 @ 3.00GHz	41,445	\$2,757.99*
AMD EPYC 7F52	41,023	\$3,100.00*
Apple M1 Ultra 20 Core	40,906	NA
Intel Xeon Platinum 8275CL @ 3.00GHz	40,794	NA
AMD Ryzen Threadripper PRO 5945WX	40,784	NA
AMD EPYC 7K62	40,487	NA
Intel Xeon W-3275M @ 2.50GHz	40,444	\$7,453.00*
AMD Ryzen Threadripper PRO 3955WX	40,294	\$1,139.99
AMD EPYC 7352	39,999	\$1,220.34
Intel Core i7-13700	39,657	\$409.99
Intel Xeon W-3265M @ 2.70GHz	39,618	\$6,353.00*
Intel Core i7-13700F	39,354	\$379.99
AMD Ryzen 9 5900X	39,271	\$340.00
Intel Xeon W-3335 @ 3.40GHz	39,040	\$1,299.00*
AMD Ryzen 9 3950X	39,010	\$579.99
Intel Xeon Gold 6248R @ 3.00GHz	38,604	\$2,100.00
Intel Core i5-13600K	38,431	\$319.88
Intel Core i5-13600KF	38,288	\$308.16
Intel Xeon Gold 6346 @ 3.10GHz	37,626	\$2,183.99
Intel Xeon Platinum 8280 @ 2.70GHz	37,575	\$6,815.00
Intel Xeon Gold 5320 @ 2.20GHz	37,558	\$1,745.00
Intel Xeon Gold 6238R @ 2.20GHz	37,511	\$2,595.00
Intel Xeon Silver 4316 @ 2.30GHz	37,264	\$950.00
Intel Core i9-12900F	37,220	\$481.98
Intel Xeon W-3175X @ 3.10GHz	37,167	\$2,660.69
AMD Ryzen 7 7700X	36,462	\$344.00
ARM Neoverse-N1 80 Core 3000 MHz	36,400	NA
AMD EPYC 7D12	35,853	NA
Intel Core i9-12900HX	35,492	\$606.00*
Intel Xeon Gold 6326 @ 2.90GHz	35,328	\$1,427.99
Intel Xeon Platinum 8180 @ 2.50GHz	35,208	\$5,950.00
Intel Core i9-12900	35,074	\$510.98
Intel Xeon Gold 6242R @ 3.10GHz	34,963	\$2,349.00
Intel Core i7-12700K	34,749	\$409.00*
AMD Ryzen 9 5900	34,554	NA
Intel Core i7-12700KF	34,528	\$276.81
AMD Ryzen 7 7700	34,461	\$329.00
AMD Ryzen 9 PRO 5945	34,271	NA
Intel Xeon Platinum 8260M @ 2.30GHz	33,970	\$7,705.00*
AMD EPYC 7302	33,863	\$949.00
Intel Core i7-12800HX	33,851	\$457.00*
Intel Xeon D-2799 @ 2.40GHz	33,792	\$1,933.00*
Intel Xeon Gold 6230R @ 2.10GHz	33,733	\$1,485.00
AMD Ryzen Threadripper PRO 3945WX	33,424	NA
Intel Xeon Gold 5220R @ 2.20GHz	33,370	\$1,478.00