

CPU Benchmarks

Over 1,000,000 CPUs Benchmarked

Price Performance Currently Available

This chart comparing the price performance of CPUs is made using thousands of [PerformanceTest](#) benchmark results and pricing pulled from various retailers. Benchmark results and pricing is reviewed daily. The chart below compares CPU value (performance / price) using the lowest price currently available from our affiliates. Higher results in the chart represent better value in terms of more performance per dollar. The top 150 CPUs (with a minimum of 2500 CPU Mark rating and released in the last five years) in terms of value are graphed for both single CPU systems (typically desktops) and multi-CPU systems (typically servers).


Single Thread:	Single Thread Value	XY Scatter Graph:
Single CPUs:	CPU Value	XY Scatter Graph
Multiple CPUs:	CPU Value	XY Scatter Graph

PassMark - Price Performance (CPU Mark / \$Price)

Top 150 Available Price Performance CPUs

Updated 12th of April 2022

CPU	CPU Value (Mark/Price)	CPU Mark	Price (USD)
Intel Core i3-12100F	133.6	14,555	\$108.94
Intel Core i3-10100F @ 3.60GHz	109.5	8,855	\$80.87
Intel Core i5-12400F	109.0	19,623	\$179.99
Intel Core i5-11400F @ 2.60GHz	108.0	17,281	\$159.99
Intel Core i3-10105F @ 3.70GHz	104.8	9,148	\$87.27
Intel Core i7-12700F	101.7	31,818	\$312.96
Intel Core i5-12600KF	100.8	27,205	\$269.88
AMD Ryzen 9 5900X	99.9	39,472	\$395.00
AMD Ryzen 5 5600G	99.6	19,829	\$199.00
AMD Ryzen 5 3600	99.6	17,826	\$179.04
AMD Ryzen 5 5600X	99.5	22,100	\$222.10
Intel Core i5-10400F @ 2.90GHz	98.7	12,441	\$126.00
Intel Core i5-12600K	98.0	27,345	\$278.99
AMD Ryzen 5 3600X	97.6	18,285	\$187.29
Intel Core i5-11600KF @ 3.90GHz	94.1	19,762	\$209.99
Intel Core i5-11600K @ 3.90GHz	92.2	19,817	\$214.89
Intel Core i7-12700	90.3	31,608	\$349.99
Intel Core i7-12700KF	89.9	33,963	\$377.98
Intel Core i5-11500 @ 2.70GHz	88.8	17,679	\$199.00
Intel Core i5-12600	88.8	21,217	\$238.97

AMD Ryzen 5 2600	87.2	13,198	\$151.43
AMD Ryzen 9 5950X	84.5	46,211	\$546.90
 CPU Benchmarks ▼			
AMD Ryzen 7 5700G	82.7	24,557	\$296.98
Intel Core i5-10400 @ 2.90GHz	81.7	12,323	\$150.90
Intel Core i7-11700KF @ 3.60GHz	79.9	24,215	\$302.99
Intel Core i3-10105 @ 3.70GHz	79.1	8,933	\$112.90
Intel Core i9-7900X @ 3.30GHz	79.0	21,329	\$269.98
Intel Core i5-10600KF @ 4.10GHz	78.8	14,569	\$184.98
Intel Core i5-11600 @ 2.80GHz	78.2	18,335	\$234.52
Intel Core i5-11400 @ 2.60GHz	77.9	17,128	\$220.00
AMD Ryzen 3 3100	77.8	11,669	\$149.95
AMD Ryzen 7 3800X	77.6	23,284	\$299.99
Intel Core i7-11700K @ 3.60GHz	77.5	24,792	\$319.99
Intel Core i3-10320 @ 3.80GHz	75.1	10,132	\$135.00
AMD Ryzen 5 3500X	72.1	13,342	\$184.99
Intel Core i3-10100 @ 3.60GHz	72.0	8,803	\$122.25
Intel Core i3-10300 @ 3.70GHz	71.8	9,329	\$129.95
Intel Core i7-11700F @ 2.50GHz	71.5	21,456	\$299.99
Intel Core i9-12900KF	70.9	41,034	\$578.97
AMD Ryzen 7 2700X	70.7	17,580	\$248.70
Intel Pentium Gold G6405 @ 4.10GHz	70.2	4,285	\$61.00
AMD Ryzen 9 3900X	69.7	32,762	\$470.00
AMD Ryzen 7 PRO 4750G	68.6	20,573	\$299.99
Intel Core i5-10600K @ 4.10GHz	68.3	14,543	\$212.97
Intel Core i5-9600KF @ 3.70GHz	68.2	10,837	\$159.00
Intel Core i9-12900K	67.7	40,904	\$603.99
AMD Ryzen Threadripper 1900X	67.7	16,913	\$249.99
Intel Core i9-12900	67.5	37,747	\$559.43
AMD Ryzen 7 3700X	66.8	22,719	\$340.00
Intel Core i7-10700F @ 2.90GHz	66.5	16,961	\$254.99
Intel Core i9-10850K @ 3.60GHz	66.0	23,108	\$349.99
Intel Core i7-11700 @ 2.50GHz	66.0	20,730	\$314.20
Intel Core i7-7740X @ 4.30GHz	65.8	9,864	\$149.99
Intel Core i7-7800X @ 3.50GHz	64.4	12,872	\$199.99
Intel Core i9-11900K @ 3.50GHz	64.2	25,562	\$397.97
Intel Core i9-11900 @ 2.50GHz	63.7	23,190	\$364.16
Intel Core i5-9400F @ 2.90GHz	63.7	9,549	\$149.99
Intel Core i9-11900KF @ 3.50GHz	63.6	25,441	\$399.99
Intel Core i9-10900KF @ 3.70GHz	63.6	23,523	\$369.99
Intel Core i5-10600 @ 3.30GHz	63.5	13,974	\$219.99
Intel Core i5-10500 @ 3.10GHz	62.2	13,046	\$209.88
Intel Celeron G5900 @ 3.40GHz	62.0	2,790	\$44.99
Intel Core i9-7920X @ 2.90GHz	62.0	23,246	\$375.00
Intel Core i7-10700KF @ 3.80GHz	61.8	19,143	\$309.99
AMD Ryzen 7 3800XT	61.2	23,811	\$389.18
Intel Core i9-10900K @ 3.70GHz	61.0	23,788	\$389.98

 **CPU Benchmarks** ▼

AMD Ryzen 3 1300X	60.1	6,910	\$115.00
Intel Pentium Gold G6400 @ 4.00GHz	59.9	4,136	\$68.99
Intel Core i9-10900F @ 2.80GHz	58.2	20,908	\$358.98
AMD Ryzen 3 3300X	58.0	12,751	\$219.99
AMD Ryzen 7 2700	56.5	15,653	\$277.19
AMD Ryzen 9 3950X	56.0	39,171	\$700.00
Intel Core i5-9500F @ 3.00GHz	55.8	10,330	\$184.99
Intel Core i9-12900F	55.5	34,980	\$629.99
Intel Core i5-9400 @ 2.90GHz	54.0	9,496	\$175.95
Intel Core i5-8600K @ 3.60GHz	53.4	10,193	\$190.99
AMD Ryzen 9 3900XT	53.1	32,872	\$618.99
AMD Ryzen 5 2400G	53.0	8,727	\$164.54
Intel Core i9-11900F @ 2.50GHz	52.4	23,916	\$456.75
Intel Core i9-10900 @ 2.80GHz	51.2	20,464	\$399.98
AMD A8-7680	50.9	3,565	\$69.99
Intel Core i5-8500 @ 3.00GHz	50.5	9,593	\$190.00
Intel Core i9-7940X @ 3.10GHz	48.3	26,508	\$548.87
Intel Core i3-9350KF @ 4.00GHz	48.0	7,485	\$155.98
Intel Core i5-9500 @ 3.00GHz	47.5	9,723	\$204.69
Intel Core i3-9100F @ 3.60GHz	46.7	6,766	\$145.00
AMD Ryzen 3 3200G	45.2	7,189	\$158.88
AMD Ryzen 5 3600XT	44.8	18,783	\$418.90
Intel Core i7-8700 @ 3.20GHz	43.7	13,055	\$299.00
Intel Core i7-9700 @ 3.00GHz	43.6	13,382	\$307.00
Intel Core i7-9700KF @ 3.60GHz	42.7	14,519	\$339.99
AMD Ryzen Threadripper 2970WX	42.3	30,433	\$719.95
Intel Xeon E-2136 @ 3.30GHz	42.2	13,540	\$320.99
Intel Core i5-9600K @ 3.70GHz	42.2	10,794	\$255.99
Intel Xeon E-2236 @ 3.40GHz	42.0	14,426	\$343.24
Intel Core i9-10900X @ 3.70GHz	41.6	22,728	\$546.99
Intel Core i7-8700K @ 3.70GHz	41.2	13,871	\$337.00
Intel Core i5-9600 @ 3.10GHz	40.4	10,369	\$256.55
Intel Core i5-8400 @ 2.80GHz	40.1	9,219	\$230.00
Intel Core i7-9700F @ 3.00GHz	39.4	13,447	\$340.99
Intel Core i3-9100 @ 3.60GHz	39.0	6,628	\$170.00
Intel Core i9-9900 @ 3.10GHz	39.0	16,882	\$433.40
Intel Core i5-8600 @ 3.10GHz	38.3	9,839	\$256.69
Intel Xeon Silver 4116 @ 2.10GHz	38.3	14,931	\$389.99
AMD Ryzen 3 2200G	37.9	6,780	\$178.99
Intel Core i9-10980XE @ 3.00GHz	37.6	33,614	\$892.84
Intel Core i7-9700K @ 3.60GHz	37.2	14,548	\$390.99
Intel Core i9-10920X @ 3.50GHz	36.9	26,749	\$724.99
AMD A8-9600	36.8	3,286	\$89.38
AMD EPYC 7262	36.4	20,827	\$571.95
Intel Core i9-7980XE @ 2.60GHz	36.2	29,541	\$816.42
Intel Xeon E-2146G @ 3.50GHz	36.1	13,343	\$369.60
Intel Core i9-9900K @ 3.60GHz	35.8	16,707	\$410.00

AMD EPYC 7551P	35.7	30,313	\$849.00
AMD Ryzen 5 3400G	35.3	9,335	\$264.63
 CPU Benchmarks ▼			
Intel Core i5-7640X @ 4.00GHz	34.9	6,636	\$189.88
AMD Athlon 220GE	34.7	4,471	\$129.00
AMD Ryzen Threadripper 3960X	33.4	54,760	\$1,637.77
Intel Core i9-9900X @ 3.50GHz	33.4	21,862	\$654.99
Intel Core i3-8350K @ 4.00GHz	33.2	6,854	\$206.19
AMD Ryzen 3 1200	32.2	6,302	\$195.59
Intel Xeon E-2124 @ 3.30GHz	31.7	6,966	\$220.00
Intel Pentium Gold G5400 @ 3.70GHz	30.8	3,728	\$120.99
Intel Xeon E-2176G @ 3.70GHz	30.5	13,643	\$448.00
Intel Xeon E3-1225 v6 @ 3.30GHz	30.3	6,312	\$208.13
AMD Ryzen Threadripper 2950X	30.3	29,959	\$990.00
Intel Core i9-9900K @ 3.60GHz	29.7	18,724	\$630.00
Intel Xeon E-2124G @ 3.40GHz	29.5	7,518	\$254.99
AMD EPYC 7402P	29.2	41,741	\$1,427.97
Intel Core i7-8700T @ 2.40GHz	27.9	10,466	\$374.88
Intel Pentium Gold G5420 @ 3.80GHz	27.8	3,641	\$130.84
Intel Xeon E3-1270 v6 @ 3.80GHz	27.8	8,840	\$317.71
Intel Xeon E3-1245 v6 @ 3.70GHz	27.8	8,606	\$309.99
Intel Xeon Silver 4210 @ 2.20GHz	27.5	14,285	\$519.99
Intel Core i9-7960X @ 2.80GHz	26.9	26,699	\$990.97
Intel Xeon W-2223 @ 3.60GHz	26.9	8,686	\$322.99
Intel Xeon Silver 4210R @ 2.40GHz	26.8	15,030	\$559.99
Intel Pentium G4600T @ 3.00GHz	26.5	3,130	\$117.99
AMD Ryzen Threadripper 3970X	26.3	63,846	\$2,423.09
Intel Xeon E3-1275 v6 @ 3.80GHz	26.2	9,229	\$352.20
Intel Core i9-9820X @ 3.30GHz	25.9	18,288	\$705.99
Intel Core i7-7820X @ 3.60GHz	25.8	17,289	\$669.00
Intel Core i3-8300 @ 3.70GHz	25.4	6,097	\$240.48

* - Prices available from our affiliates.

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