

CPU Benchmarks

Over 1,000,000 CPUs Benchmarked

New Desktop CPU Performance

This chart comparing performance of CPUs designed for desktop machines is made using thousands of [PerformanceTest](#) benchmark results and is updated daily.

Notes:

- While we try to keep this chart mainly server and laptop CPU free, there might be some rogue processors in the list.
- The chart shows only CPUs that had their benchmark first submitted within the last 36 months. Older desktop CPUs may not appear.

CPU Mark	Price Performance	Sorted by Date
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PassMark - CPU Mark

Desktop CPU Performance

Updated 3rd of April 2023

CPU	CPU Mark	Price (USD)
AMD Ryzen Threadripper PRO 5995WX	96,636	\$6,499.00
AMD Ryzen Threadripper PRO 3995WX	83,097	\$7,064.58
AMD Ryzen Threadripper PRO 5975WX	76,120	\$3,199.99
AMD Ryzen Threadripper PRO 5965WX	66,337	\$2,199.99
AMD Ryzen 9 7950X3D	63,971	\$909.99
AMD Ryzen 9 7950X	63,519	\$570.32
AMD Ryzen Threadripper PRO 3975WX	62,955	\$2,997.29
Intel Core i9-13900KS	62,314	\$899.99
Intel Core i9-13900K	60,089	\$499.99
Intel Core i9-13900KF	59,633	\$554.99
Intel Core i9-13900F	53,378	\$549.99

Intel Core i9-13900	51,265	\$573.82
AMD Ryzen Threadripper PRO 5955WX	49,585	\$1,299.00
 CPU Benchmarks ▼		
Intel Core i7-13700K	47,013	\$417.94
Intel Core i7-13700KF	46,845	\$394.99
AMD Ryzen 9 5950X	45,908	\$497.00
Intel Core i9-12900KS	44,546	\$499.95
Intel Core i9-13900T	44,273	\$549.00*
Intel Core i7-13700F	42,154	\$364.99
Intel Core i9-12900K	41,603	\$425.00
Intel Core i9-12900KF	41,405	\$399.99
Apple M1 Ultra 20 Core	40,933	NA
AMD Ryzen Threadripper PRO 5945WX	40,838	NA
AMD Ryzen Threadripper PRO 3955WX	40,271	\$1,118.84
Intel Core i7-13700	39,870	\$392.35
AMD Ryzen 9 5900X	39,279	\$347.49
Intel Core i5-13600K	38,519	\$319.84
Intel Core i5-13600KF	38,364	\$296.48
Intel Core i9-12900F	37,331	\$482.96
AMD Ryzen 7 7700X	36,524	\$344.99
AMD Ryzen 7 7700	35,528	\$327.95
Intel Core i7-12700K	34,800	\$409.00*
Intel Core i9-12900	34,750	\$537.98
Intel Core i7-12700KF	34,594	\$289.99
AMD Ryzen 9 5900	34,534	NA
AMD Ryzen 9 PRO 5945	34,481	NA
AMD Ryzen Threadripper PRO 3945WX	33,431	NA
Intel Core i5-13600	33,029	\$255.00*
Intel Core i5-13500	32,884	\$249.98
AMD Ryzen 9 3900XT	32,814	\$450.00
Intel Xeon W-3265M @ 2.70GHz	32,025	\$6,353.00*
Intel Core i9-12900T	31,411	\$489.00*
Intel Core i7-12700	31,166	\$349.45
Intel Core i7-12700F	31,102	\$289.99
Intel Core i7-13700T	30,304	\$384.00*
Intel Core i9-9990XE @ 4.00GHz	30,162	\$2,163.00*
Intel Core i5-13500T	29,421	\$232.00*
AMD Ryzen 5 7600X	28,830	\$241.98
Intel Core i7-12700E	28,292	\$344.00*
AMD Ryzen 7 5800X	28,082	\$213.63
Intel Xeon W-2275 @ 3.30GHz	28,037	\$2,058.00*
AMD Ryzen 7 5800X3D	28,015	\$299.99
AMD Ryzen 5 7600	27,822	\$229.00
Intel Core i5-12600K	27,822	\$237.88
Intel Core i5-12600KF	27,435	\$224.99
Intel Core i5-13600T	27,143	\$255.00*
AMD Ryzen 7 5700X	26,829	\$193.15

Intel Core i5-13400F	25,907	\$209.87
Intel Xeon W-3323 @ 3.50GHz	25,875	\$949.00*
 CPU Benchmarks ▼		
Intel Core i9-11900K @ 3.50GHz	25,519	\$334.71
Intel Xeon W-1390P @ 3.50GHz	25,451	NA
Intel Core i9-11900KF @ 3.50GHz	25,382	\$324.98
Intel Xeon W-1370P @ 3.60GHz	24,961	\$499.99
Intel Core i7-11700K @ 3.60GHz	24,664	\$279.80
AMD Ryzen 7 5700G	24,649	\$192.99
AMD Ryzen 7 PRO 5750G	24,501	NA
Intel Core i7-11700KF @ 3.60GHz	24,098	\$260.76
AMD Ryzen 7 5700	23,995	NA
Intel Xeon W-1370 @ 2.90GHz	23,908	\$468.99
AMD Ryzen 7 3800XT	23,730	\$215.49
Intel Core i9-10900K @ 3.70GHz	23,315	\$339.00
Intel Core i9-11900KB @ 3.30GHz	23,147	\$539.00*
Intel Core i9-10900KF @ 3.70GHz	23,003	\$364.99
Intel Core i9-11900 @ 2.50GHz	23,002	\$360.00
Intel Core i7-11700B @ 3.20GHz	22,832	NA
Intel Core i9-11900F @ 2.50GHz	22,831	\$408.99
Intel Core i9-10850K @ 3.60GHz	22,739	\$294.59
AMD Ryzen 7 5700GE	22,196	NA
AMD Ryzen 7 PRO 5750GE	22,135	NA
Apple M1 Max 10 Core 3200 MHz	22,131	NA
AMD Ryzen Threadripper 1920	22,066	NA
AMD Ryzen 5 5600X	21,950	\$189.99
Apple M1 Pro 10 Core 3200 MHz	21,921	NA
AMD Ryzen 5 PRO 5645	21,904	NA
Intel Core i9-10910 @ 3.60GHz	21,839	NA
Intel Core i7-12700T	21,715	\$339.00*
Apple M2 Pro 10 Core 3480 MHz	21,692	NA
AMD Ryzen 5 5600	21,590	\$138.99
Intel Core i5-12600	21,414	\$275.68
Intel Core i7-11700F @ 2.50GHz	21,197	\$244.99
AMD Ryzen 7 PRO 4700G	20,848	NA
Intel Core i5-12490F	20,766	\$165.52
AMD Ryzen 7 PRO 4750G	20,558	\$199.99
Intel Core i9-10900F @ 2.80GHz	20,493	\$374.00
AMD Ryzen 7 4700GE	20,249	NA
Intel Core i9-10900 @ 2.80GHz	20,235	\$458.99
AMD Ryzen 7 4700G	20,231	\$235.22
Intel Core i7-11700 @ 2.50GHz	20,104	\$255.99
AMD Ryzen 5 PRO 5650G	20,070	NA
Intel Core i5-12500	19,981	\$202.00*
AMD Ryzen 5 5600G	19,901	\$128.97
Intel Core i5-12400F	19,750	\$159.16
Intel Core i5-11600K @ 3.90GHz	19,749	\$196.98

AMD Ryzen 5 5500	19,588	\$99.00
Intel Core i5-12400	19,552	\$192.00*
 CPU Benchmarks ▼		
Intel Core i7-10700KF @ 3.80GHz	18,940	\$264.74
AMD Ryzen 5 5600GE	18,932	NA
AMD Ryzen 5 3600XT	18,715	\$132.39
AMD Ryzen 7 PRO 4750GE	18,497	NA
AMD Ryzen 5 PRO 5650GE	18,486	NA
Intel Core i9-11900T @ 1.50GHz	18,276	\$439.00*
Intel Core i5-11600 @ 2.80GHz	18,190	\$245.93
AMD 4700S	18,102	NA
Intel Core i5-11500B @ 3.30GHz	17,801	NA
Intel Core i5-11500 @ 2.70GHz	17,532	\$249.58
Intel Core i5-12600T	17,290	NA
Intel Core i5-11400F @ 2.60GHz	17,190	\$129.99
Apple M1 Pro 8 Core 3200 MHz	17,184	NA
Intel Core i5-12500T	17,154	\$202.00*
Intel Core i5-11400 @ 2.60GHz	17,070	\$133.04
Intel Core i7-10700F @ 2.90GHz	16,923	\$199.99
Intel Core i7-10700 @ 2.90GHz	16,709	\$253.76
Intel Core i5-12400T	16,552	\$169.99
AMD Ryzen 5 PRO 4400G	16,354	NA
AMD Ryzen 5 PRO 4650G	16,323	\$115.88
AMD Ryzen 5 4500	16,196	\$86.25
Intel Core i7-11700T @ 1.40GHz	15,980	\$323.00*
AMD Ryzen 5 4600G	15,871	\$100.95
AMD Ryzen 5 4600GE	15,641	NA
AMD Ryzen 5 PRO 4650GE	15,617	NA
Intel Core i3-13100F	15,370	\$119.99
Apple M2 8 Core 3500 MHz	15,358	NA
Intel Core i3-13100	15,297	\$127.29
Intel Core i9-10900T @ 1.90GHz	15,146	\$349.99*
Intel Core i3-12300	14,908	\$143.00*
Intel Core i5-11600T @ 1.70GHz	14,713	\$213.00*
Intel Core i5-10600KF @ 4.10GHz	14,456	\$175.99
Intel Core i5-10600K @ 4.10GHz	14,446	\$174.90
Intel Xeon W-1250P @ 4.10GHz	14,440	\$321.50*
Intel Core i3-12100F	14,314	\$135.38
Apple M1 8 Core 3200 MHz	14,196	NA
AMD Ryzen 3 PRO 5350G	13,898	NA
Intel Core i3-12100	13,850	\$122.00*
Intel Core i5-10600 @ 3.30GHz	13,757	\$227.10
Intel Core i3-12300T	13,734	\$157.00*
AMD Ryzen 3 PRO 5350GE	13,685	NA
AMD Ryzen 3 5300GE	13,636	NA
Intel Core i5-11500T @ 1.50GHz	13,502	\$192.00*
Intel Core i5-11400T @ 1.30GHz	13,354	\$182.00*

Intel Core i7-10700T @ 2.00GHz	12,910	\$413.99*
Intel Core i5-10500 @ 3.10GHz	12,877	\$180.20
 CPU Benchmarks ▼		
AMD Ryzen 3 3300X	12,696	\$149.93
Intel Core i5-10400F @ 2.90GHz	12,356	\$111.64
Intel Core i5-10505 @ 3.20GHz	12,281	NA
Intel Core i5-10400 @ 2.90GHz	12,252	\$128.82
AMD Ryzen 3 3100	11,645	\$77.79
Intel Core i3-11100B @ 3.60GHz	11,357	NA
AMD Ryzen 3 PRO 4200G	11,315	NA
Intel Core i5-10600T @ 2.40GHz	11,210	\$213.00*
AMD Ryzen 3 4300GE	11,209	NA
AMD Ryzen 3 4100	11,161	\$69.00
AMD Ryzen 3 PRO 4350GE	11,079	NA
AMD Ryzen 3 4300G	11,003	\$124.00
AMD Ryzen 3 PRO 4350G	10,986	NA
Intel Core i3-10325 @ 3.90GHz	10,354	\$190.10*
Intel Core i5-10500T @ 2.30GHz	10,211	\$119.99
Intel Core i3-10320 @ 3.80GHz	10,057	\$139.99
Intel Core i5-10400T @ 2.00GHz	9,957	\$182.00*
AMD Ryzen 5 PRO 3350GE	9,643	NA
Intel Core i3-10300 @ 3.70GHz	9,451	\$182.19
AMD Ryzen 5 PRO 3350G	9,347	NA
AMD Ryzen 5 3350GE	9,343	NA
Intel Core i3-10305 @ 3.80GHz	9,108	\$215.05
AMD Ryzen 5 3350G	9,099	NA
Intel Core i3-10105F @ 3.70GHz	9,075	\$74.59
Intel Core i3-10100F @ 3.60GHz	8,838	\$74.97
Intel Core i3-10100 @ 3.60GHz	8,719	\$109.76
Intel Core i3-10105 @ 3.70GHz	8,689	\$109.81
Intel Core i3-10100E @ 3.20GHz	8,229	\$125.00*
Intel Core i3-10300T @ 3.00GHz	8,205	\$193.97*
Intel Core i3-10305T @ 3.00GHz	8,136	\$143.00*
Intel Core i3-10105T @ 3.00GHz	7,983	\$122.00*
Intel Core i3-9350K @ 4.00GHz	7,722	\$293.22*
AMD Athlon Gold PRO 3150G	7,702	NA
AMD Ryzen 3 3200GE	7,312	NA
AMD Athlon Gold 3150G	7,093	NA
AMD Athlon Gold PRO 3150GE	7,006	NA
Intel Pentium Gold G7400	6,774	\$89.99
Intel Pentium Gold G7400T	5,816	\$64.00*
Intel Core i5-4470S @ 3.00GHz	4,742	NA
AMD Athlon Silver PRO 3125GE	4,633	NA
Intel Celeron G6900	4,467	\$81.38
Intel Pentium Gold G6605 @ 4.30GHz	4,401	\$145.08*
Intel Pentium Gold G6600 @ 4.20GHz	4,396	\$239.93
Intel Pentium Gold G6505 @ 4.20GHz	4,378	\$75.00*

Intel Celeron N5095A @ 2.00GHz	4,208	NA
Intel Pentium Gold G6500 @ 4.10GHz	4,170	\$79.99
Home CPU Benchmarks ▼		
Intel Celeron N5095 @ 2.00GHz	4,040	NA
Intel Celeron G6900T	4,024	\$42.00*
Intel Pentium Gold G6500T @ 3.50GHz	4,005	\$75.00*
Intel Pentium Gold G6405T @ 3.50GHz	3,746	\$64.00*
Intel Pentium Gold G6505T @ 3.60GHz	3,698	\$90.00*
Intel Pentium Gold G5600T @ 3.30GHz	3,601	NA
Intel Pentium Gold G6400T @ 3.40GHz	3,587	\$64.00*
Intel Celeron G5905 @ 3.50GHz	2,817	\$45.99
Intel Celeron G4950 @ 3.30GHz	2,714	\$119.99*
Intel Celeron G5925 @ 3.60GHz	2,708	\$44.99
Intel Celeron G5900 @ 3.40GHz	2,696	\$21.95
Intel Celeron G5900T @ 3.20GHz	2,620	\$42.00*
AMD Athlon II X4 557	2,567	NA
Intel Celeron G5920 @ 3.50GHz	2,482	\$51.82
Intel Celeron G4930T @ 3.00GHz	2,284	\$42.00*
Intel Celeron J3455E @ 1.50GHz	2,157	NA
AMD Athlon X4 730	2,113	NA
Intel Celeron G5905T @ 3.30GHz	2,070	\$42.00*
AMD Athlon X4 530	1,786	NA
AMD Athlon X2 450	1,295	NA
Intel Core i5-4470 @ 3.30GHz	1,180	NA

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