



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

PassMark - CPU Mark

Desktop CPU Performance

Updated 25th of November 2022

CPU	CPU Mark		Price (USD)
AMD Ryzen Threadripper PRO 5995WX		99,968	\$6,499.00
AMD Ryzen Threadripper PRO 3995WX		83,397	\$6,298.99
AMD Ryzen Threadripper 3990X		81,343	\$6,539.76
AMD Ryzen Threadripper PRO 5975WX		76,301	\$3,299.00
AMD Ryzen Threadripper PRO 5965WX		67,509	\$2,399.00
AMD Ryzen 9 7950X		63,559	\$660.99
AMD Ryzen Threadripper 3970X		63,554	\$1,999.99
AMD Ryzen Threadripper PRO 3975WX		62,894	\$2,998.97
Intel Core i9-13900KF		59,701	\$629.99
Intel Core i9-13900K		59,229	\$660.29
AMD Ryzen Threadripper 3960X		54,765	\$1,096.95
AMD Ryzen 9 7900X		52,064	\$439.99
AMD Ryzen Threadripper PRO 5955WX		49,815	\$1,299.99
Intel Core i7-13700K		46,936	\$439.99
Intel Core i7-13700KF		46,311	\$418.80
AMD Ryzen 9 5950X		45,821	\$499.00
Intel Core i9-12900KS		44,644	\$539.99
Intel Core i9-12900K		41,547	\$479.00
Intel Core i9-12900KF		41,473	\$429.99
Apple M1 Ultra 20 Core		41,020	NA

AMD Ryzen Threadripper PRO 3955WX		40,284	\$1,180.00
Intel Xeon W-3265M @ 2.70GHz		39,618	\$6,353.00*
CPU Benchmarks			
Intel Core i5-13600K		38,356	\$319.98
Intel Core i5-13600KF		38,162	\$309.80
Intel Core i9-12900F		37,012	\$491.99
AMD Ryzen 7 7700X		36,558	\$348.99
Intel Core i9-12900		35,643	\$508.42
Intel Core i7-12700K		34,668	\$409.00*
AMD Ryzen 9 5900		34,643	NA
Intel Core i7-12700KF		34,536	\$299.99
Intel Core i7-13700		34,431	NA
AMD Ryzen 9 PRO 5945		34,271	NA
AMD Ryzen Threadripper PRO 3945WX		33,302	NA
Intel Core i9-10980XE @ 3.00GHz		33,174	\$1,000.00
AMD Ryzen 9 3900XT		32,893	\$448.99
Intel Core i9-12900T		31,769	\$489.00*
Intel Core i7-12700F		31,423	\$302.99
Intel Core i7-12700		31,311	\$329.00
Intel Core i5-13500		30,650	NA
Intel Core i9-9990XE @ 4.00GHz		30,162	\$2,163.00*
AMD Ryzen 5 7600X		28,685	\$248.99
Intel Core i7-12700E		28,292	\$344.00*
Intel Core i9-10940X @ 3.30GHz		28,274	\$681.99
AMD Ryzen 7 5800X		28,126	\$229.00
Intel Xeon W-2275 @ 3.30GHz		27,938	\$1,112.00*
Intel Core i5-12600K		27,761	\$237.98
AMD Ryzen 7 5800X3D		27,694	\$359.00
Intel Core i5-12600KF		27,412	\$234.99
AMD Ryzen 7 PRO 5845		26,807	NA
AMD Ryzen 7 5700X		26,687	\$209.00
Intel Core i9-10920X @ 3.50GHz		26,463	\$612.99
Intel Core i5-13400		26,355	NA
Intel Xeon W-3323 @ 3.50GHz		25,875	\$949.00*
AMD Ryzen 7 5800		25,848	NA
Intel Core i9-11900K @ 3.50GHz		25,552	\$349.99
Intel Xeon W-1390P @ 3.50GHz		25,451	NA
Intel Core i9-11900KF @ 3.50GHz		25,424	\$369.99
Intel Xeon W-1370P @ 3.60GHz		24,961	\$479.99
Intel Core i7-11700K @ 3.60GHz		24,661	\$302.98
AMD Ryzen 7 PRO 5750G		24,637	NA
AMD Ryzen 7 5700G		24,577	\$186.28
AMD Ryzen 7 5700		24,267	NA
Intel Core i7-11700KF @ 3.60GHz		24,099	\$294.86
Intel Xeon W-1370 @ 2.90GHz		23,908	\$423.99
AMD Ryzen 7 3800XT		23,749	\$289.99
Intel Core i9-10900K @ 3.70GHz		23,497	\$359.97

⏮	Intel Core i9-11900KB @ 3.30GHz		23,115	\$539.00*
⏮	Intel Core i9-11900F @ 2.50GHz		23,002	\$437.99
🏠 CPU Benchmarks ▼				
⏮	Intel Core i9-10850K @ 3.60GHz		22,851	\$343.65
⏮	Intel Core i9-10900X @ 3.70GHz		22,620	\$550.00
⏮	Intel Core i7-11700B @ 3.20GHz		22,600	NA
⏮	AMD Ryzen 7 5700GE		22,484	NA
⏮	Intel Xeon W-2255 @ 3.70GHz		22,301	\$778.00*
⏮	Apple M1 Max 10 Core 3200 MHz		22,223	NA
⏮	AMD Ryzen 7 PRO 5750GE		22,212	NA
⏮	AMD Ryzen Threadripper 1920		22,066	NA
⏮	Apple M1 Pro 10 Core 3200 MHz		22,000	NA
⏮	Intel Core i7-12700T		21,962	\$339.00*
⏮	AMD Ryzen 5 5600X		21,948	\$158.98
⏮	Intel Core i9-10910 @ 3.60GHz		21,815	NA
⏮	AMD Ryzen 5 PRO 5645		21,762	NA
⏮	AMD Ryzen 5 5600		21,540	\$147.50
⏮	Intel Core i5-12600		21,251	\$253.98
⏮	Intel Core i7-11700F @ 2.50GHz		21,170	\$248.99
⏮	AMD Ryzen 7 PRO 4700G		20,848	NA
⏮	Intel Core i5-12490F		20,811	\$166.50
⏮	Intel Core i9-10900E @ 2.80GHz		20,658	\$444.00*
⏮	Intel Core i9-10900F @ 2.80GHz		20,598	\$405.99
⏮	AMD Ryzen 7 PRO 4750G		20,598	\$387.00
⏮	Intel Core i5-12500		20,325	\$202.00*
⏮	Intel Core i9-10900 @ 2.80GHz		20,243	\$399.99
⏮	AMD Ryzen 7 4700GE		20,218	NA
⏮	AMD Ryzen 7 4700G		20,216	\$237.46
⏮	AMD Ryzen 5 PRO 5650G		20,091	NA
⏮	Intel Core i7-11700 @ 2.50GHz		20,084	\$299.68
⏮	AMD Ryzen 5 5600G		19,848	\$102.38
⏮	Intel Core i5-12400F		19,771	\$162.99
⏮	Intel Core i5-11600K @ 3.90GHz		19,759	\$259.69
⏮	Intel Core i5-11600KF @ 3.90GHz		19,702	\$198.75
⏮	Intel Core i5-12400		19,525	\$192.00*
⏮	AMD Ryzen 5 5500		19,464	\$94.99
⏮	Intel Core i7-10700K @ 3.80GHz		19,160	\$230.00
⏮	Intel Core i7-10700KF @ 3.80GHz		19,016	\$269.99
⏮	AMD Ryzen 5 5600GE		18,879	NA
⏮	AMD Ryzen 5 3600XT		18,730	\$349.00
⏮	AMD Ryzen 5 PRO 5650GE		18,546	NA
⏮	AMD Ryzen 7 PRO 4750GE		18,485	NA
⏮	Intel Core i9-11900T @ 1.50GHz		18,293	\$439.00*
⏮	Intel Core i5-11600 @ 2.80GHz		18,168	\$247.99
⏮	AMD 4700S		18,102	NA
⏮	Intel Core i5-11500B @ 3.30GHz		17,801	NA
⏮	Intel Core i5-11500 @ 2.70GHz		17,577	\$222.77

⌵	Apple M1 Pro 8 Core 3200 MHz		17,245	NA
⌵	Intel Core i5-11400F @ 2.60GHz		17,205	\$135.98
🏠 CPU Benchmarks ▼				
⌵	Intel Core i5-12600T		17,074	NA
⌵	Intel Core i7-10700F @ 2.90GHz		16,975	\$250.49
⌵	Intel Core i5-12400T		16,867	\$169.99
⌵	Intel Core i7-10700 @ 2.90GHz		16,789	\$216.78
⌵	AMD Ryzen 5 PRO 4400G		16,354	NA
⌵	AMD Ryzen 5 PRO 4650G		16,319	\$144.49
⌵	AMD Ryzen 5 4500		16,056	\$91.40
⌵	Intel Core i7-11700T @ 1.40GHz		15,694	\$323.00*
⌵	AMD Ryzen 5 4600GE		15,641	NA
⌵	AMD Ryzen 5 4600G		15,629	\$99.97
⌵	AMD Ryzen 5 PRO 4650GE		15,607	NA
⌵	Intel Core i9-10900T @ 1.90GHz		15,520	\$339.99
⌵	Apple M2 8 Core 3500 MHz		15,332	NA
⌵	Intel Core i3-12300		15,023	\$143.00*
⌵	Intel Core i5-11600T @ 1.70GHz		14,713	\$213.00*
⌵	Intel Core i5-10600K @ 4.10GHz		14,493	\$149.72
⌵	Intel Core i5-10600KF @ 4.10GHz		14,490	\$169.99
⌵	Intel Xeon W-1250P @ 4.10GHz		14,476	\$321.50*
⌵	Apple M1 8 Core 3200 MHz		14,359	NA
⌵	Intel Core i3-12100F		14,341	\$97.99
⌵	Intel Core i3-12100		14,293	\$122.00*
⌵	AMD Ryzen 3 PRO 5350G		13,898	NA
⌵	Intel Core i5-10600 @ 3.30GHz		13,790	\$208.88
⌵	AMD Ryzen 3 PRO 5350GE		13,685	NA
⌵	AMD Ryzen 3 5300GE		13,636	NA
⌵	Intel Core i5-11400T @ 1.30GHz		13,262	\$182.00*
⌵	Intel Core i5-11500T @ 1.50GHz		13,160	\$192.00*
⌵	AMD Ryzen 3 5300G		13,046	NA
⌵	Intel Core i7-10700T @ 2.00GHz		13,013	\$413.99*
⌵	Intel Core i5-10500 @ 3.10GHz		12,940	\$226.69
⌵	Intel Core i3-12100T		12,788	\$122.00*
⌵	Intel Core i7-9700E @ 2.60GHz		12,751	\$323.00*
⌵	AMD Ryzen 3 3300X		12,683	\$225.00
⌵	Intel Core i5-10400F @ 2.90GHz		12,365	\$121.07
⌵	Intel Core i5-10400 @ 2.90GHz		12,302	\$141.88
⌵	Intel Core i5-10505 @ 3.20GHz		12,294	NA
⌵	AMD Ryzen 3 3100		11,647	\$134.99
⌵	Intel Core i3-11100B @ 3.60GHz		11,357	NA
⌵	AMD Ryzen 3 PRO 4200G		11,315	NA
⌵	AMD Ryzen 3 4300GE		11,309	NA
⌵	Intel Core i5-10600T @ 2.40GHz		11,210	\$213.00*
⌵	AMD Ryzen 3 PRO 4350GE		11,091	NA
⌵	AMD Ryzen 3 4100		11,037	\$109.99
⌵	AMD Ryzen 3 PRO 4350G		10,896	NA

⏪	Intel Core i7-9700TE @ 1.80GHz		10,740	\$323.00*
⏪	Intel Core i3-10325 @ 3.90GHz		10,362	\$190.10*
🏠 CPU Benchmarks ▼				
⏪	Intel Core i3-10320 @ 3.80GHz		10,066	\$139.99
⏪	Intel Core i5-10400T @ 2.00GHz		9,979	\$182.00*
⏪	AMD Ryzen 5 PRO 3350GE		9,643	NA
⏪	AMD Ryzen 5 PRO 3350G		9,375	NA
⏪	AMD Ryzen 5 3350GE		9,343	NA
⏪	Intel Core i3-10300 @ 3.70GHz		9,248	\$169.99
⏪	AMD Ryzen 5 3350G		9,113	NA
⏪	Intel Core i7-9850HL @ 1.90GHz		9,112	\$395.00*
⏪	Intel Core i3-10305 @ 3.80GHz		9,108	\$149.00
⏪	Intel Core i3-10105F @ 3.70GHz		9,107	\$79.99
⏪	AMD Ryzen 5 3400GE		8,922	NA
⏪	Intel Core i3-10100F @ 3.60GHz		8,839	\$75.99
⏪	Intel Core i3-10100 @ 3.60GHz		8,752	\$104.90
⏪	Intel Core i3-10105 @ 3.70GHz		8,724	\$108.99
⏪	Intel Core i5-10300H @ 2.50GHz		8,640	\$250.00*
⏪	Intel Core i3-10100E @ 3.20GHz		8,229	\$125.00*
⏪	Intel Core i3-10300T @ 3.00GHz		8,205	\$177.72*
⏪	Intel Core i3-10305T @ 3.00GHz		8,136	\$143.00*
⏪	Intel Core i3-10105T @ 3.00GHz		7,943	\$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		7,068	NA
⏪	Intel Pentium Gold G7400		6,760	\$79.99
⏪	AMD Ryzen Embedded V1404I		6,241	NA
⏪	Intel Pentium Gold G7400T		5,883	\$64.00*
⏪	Intel Core i5-4470S @ 3.00GHz		4,742	NA
⏪	AMD Athlon Silver PRO 3125GE		4,633	NA
⏪	Intel Pentium Gold G6605 @ 4.30GHz		4,526	\$164.99
⏪	AMD Athlon 3000G		4,483	\$89.99*
⏪	Intel Celeron G6900		4,444	\$78.97
⏪	Intel Pentium Gold G6600 @ 4.20GHz		4,396	\$128.21
⏪	Intel Pentium Gold G6505 @ 4.20GHz		4,378	\$75.00*
⏪	Intel Celeron N5095A @ 2.00GHz		4,327	NA
⏪	AMD Athlon 300GE		4,301	NA
⏪	AMD Athlon 320GE		4,285	NA
⏪	Intel Pentium Gold G6405 @ 4.10GHz		4,274	\$67.54
⏪	AMD Ryzen Embedded R1606G		4,166	NA
⏪	Intel Pentium Gold G6500 @ 4.10GHz		4,147	\$89.99
⏪	Intel Pentium Gold G6400 @ 4.00GHz		4,132	\$44.99
⏪	Intel Pentium Gold G5620 @ 4.00GHz		4,102	\$120.00*
⏪	Intel Celeron N5095 @ 2.00GHz		4,028	NA
⏪	Intel Celeron G6900T		4,024	\$42.00*

⏏	Intel Pentium Gold G6405T @ 3.50GHz		3,746	\$64.00*
⏏	Intel Pentium Gold G5600T @ 3.30GHz		3,601	NA
🏠 CPU Benchmarks ▼				
⏏	Intel Pentium Silver J5040 @ 2.00GHz		3,453	NA
⏏	Intel Celeron J4125 @ 2.00GHz		2,985	NA
⏏	Intel Celeron G5905 @ 3.50GHz		2,832	\$42.99
⏏	Intel Celeron G5925 @ 3.60GHz		2,721	\$29.90
⏏	Intel Celeron G4950 @ 3.30GHz		2,714	\$119.99
⏏	Intel Celeron J4115 @ 1.80GHz		2,708	NA
⏏	Intel Celeron G5900 @ 3.40GHz		2,684	\$24.00
⏏	Intel Celeron G5900T @ 3.20GHz		2,620	\$42.00*
⏏	AMD Athlon II X4 557		2,567	NA
⏏	Intel Celeron G5920 @ 3.50GHz		2,482	\$53.99
⏏	Intel Celeron G4930T @ 3.00GHz		2,284	\$42.00*
⏏	Intel Celeron G5905T @ 3.30GHz		2,234	\$42.00*
⏏	Intel Celeron J3455E @ 1.50GHz		2,157	NA
⏏	Intel Core2 Extreme Q9200 @ 2.40GHz		2,011	NA
⏏	AMD Athlon X4 730		1,936	NA
⏏	AMD Athlon X4 530		1,786	NA
⏏	Intel Celeron J4025 @ 2.00GHz		1,695	NA
⏏	Intel Pentium G2120T @ 2.70GHz		1,613	NA
⏏	AMD Athlon X2 450		1,295	NA
⏏	AMD R-272F APU		1,215	NA
//	Intel Core i5-4470 @ 3.30GHz		1,180	NA

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