

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

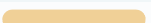
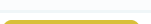
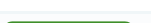
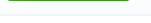
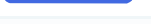
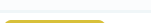
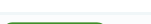
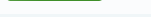
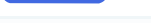
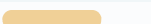
Sorted by Date

PassMark - CPU Mark

Desktop CPU Performance

Updated 2nd of June 2022

CPU	CPU Mark	Punkty	Price (USD)
AMD Ryzen Threadripper PRO 5995WX		108,822	NA
AMD Ryzen Threadripper PRO 3995WX		83,623	\$7,480.00
AMD Ryzen Threadripper 3990X		81,546	\$7,999.99
AMD Ryzen Threadripper PRO 5975WX		80,842	NA
AMD Ryzen Threadripper PRO 5965WX		68,405	NA
AMD Ryzen Threadripper 3970X		63,791	\$1,999.99
AMD Ryzen Threadripper PRO 3975WX		63,296	\$4,077.00
AMD Ryzen Threadripper 3960X		54,764	\$1,729.09
AMD Ryzen Threadripper PRO 5955WX		51,227	NA
AMD Ryzen 9 5950X		46,194	\$544.11
Intel Core i9-12900KS		44,528	\$749.99
AMD Ryzen Threadripper PRO 5945WX		41,282	NA
Apple M1 Ultra 20 Core		41,261	NA
Intel Core i9-12900K		41,183	\$597.99
Intel Core i9-12900KF		41,146	\$549.97
AMD Ryzen Threadripper PRO 3955WX		40,212	\$2,083.67
Intel Xeon W-3265M @ 2.70GHz		39,618	\$6,353.00*
AMD Ryzen 9 5900X		39,449	\$391.00
AMD Ryzen 9 3950X		39,155	\$600.00
Intel Core i9-12900		37,565	\$508.99
Intel Core i9-12900F		35,847	\$509.99
Intel Core i9-12900T		35,007	\$489.00*

AMD Ryzen 9 5900		34,576	NA
Intel Core i7-12700K		34,328	\$409.00*
Intel Core i7-12700KF		34,044	\$363.99
AMD Ryzen Threadripper PRO 3945WX		33,441	NA
Intel Core i9-10980XE @ 3.00GHz		33,376	\$949.99
AMD Ryzen 9 3900XT		32,866	\$618.99
AMD Ryzen 9 3900X		32,747	\$528.00
Intel Core i7-12700F		32,326	\$312.96
Intel Core i7-12700		31,690	\$330.23
AMD Ryzen 9 PRO 3900		31,372	NA
AMD Ryzen 9 3900		30,646	\$516.99
Intel Core i9-9990XE @ 4.00GHz		30,162	\$2,163.00*
Intel Core i9-10940X @ 3.30GHz		28,574	\$729.99
AMD Ryzen 7 5800X		28,337	\$288.00
Intel Xeon W-2275 @ 3.30GHz		27,904	\$1,112.00*
Intel Core i5-12600K		27,469	\$277.96
Intel Core i5-12600KF		27,325	\$259.99
AMD Ryzen 7 5700X		26,918	\$286.99
Intel Core i9-10920X @ 3.50GHz		26,642	\$715.00
AMD Ryzen 7 5800X3D		26,370	\$589.00
Intel Xeon W-1390P @ 3.50GHz		26,031	NA
Intel Xeon W-3323 @ 3.50GHz		25,875	\$949.00*
AMD Ryzen 7 5800		25,669	NA
Intel Core i9-11900K @ 3.50GHz		25,561	\$393.99
Intel Core i9-11900KF @ 3.50GHz		25,276	\$379.96
Intel Xeon W-1370P @ 3.60GHz		25,202	\$429.99
AMD Ryzen 7 PRO 5750G		24,983	NA
Intel Core i7-11700K @ 3.60GHz		24,735	\$299.99
AMD Ryzen 7 5700G		24,566	\$272.99
Intel Core i7-11700KF @ 3.60GHz		24,123	\$293.99
Intel Xeon W-1370 @ 2.90GHz		23,908	\$455.99
AMD Ryzen 7 3800XT		23,819	\$309.99
Intel Core i9-11900F @ 2.50GHz		23,780	\$399.99
Intel Core i9-10900K @ 3.70GHz		23,725	\$384.99
Intel Core i9-10900KF @ 3.70GHz		23,482	\$401.81
AMD Ryzen 7 3800X		23,270	\$246.99
Intel Core i9-11900 @ 2.50GHz		23,069	\$357.30
Intel Core i9-10850K @ 3.60GHz		23,015	\$389.54
AMD Ryzen 7 PRO 3700		22,800	\$329.99*
Intel Core i7-12700T		22,774	\$339.00*
Intel Core i9-11900KB @ 3.30GHz		22,741	\$539.00*
AMD Ryzen 7 3700X		22,709	\$301.99
Intel Core i9-10900X @ 3.70GHz		22,680	\$580.00
Intel Core i7-11700B @ 3.20GHz		22,599	NA
AMD Ryzen 7 5700GE		22,566	NA
Apple M1 Max 10 Core 3200 MHz		22,516	NA
Apple M1 Pro 10 Core 3200 MHz		22,247	NA
AMD Ryzen 7 PRO 5750GE		22,190	NA
Intel Xeon W-2255 @ 3.70GHz		22,099	\$778.00*

AMD Ryzen 5 5600X		22,075	\$198.99
AMD Ryzen Threadripper 1920		22,066	NA
 Intel Core i9-10910 @ 3.60GHz		21,801	NA
AMD Ryzen 5 5600		21,611	\$184.99
Intel Core i7-11700F @ 2.50GHz		21,393	\$289.98
Intel Core i9-10900F @ 2.80GHz		20,882	\$358.99
AMD Ryzen 7 PRO 4700G		20,848	NA
Intel Core i5-12600		20,817	\$229.98
Intel Core i9-10900E @ 2.80GHz		20,658	\$444.00*
AMD Ryzen 7 PRO 4750G		20,562	\$279.99
Intel Core i7-11700 @ 2.50GHz		20,547	\$313.99
AMD Ryzen 5 PRO 5650G		20,534	NA
Intel Core i9-10900 @ 2.80GHz		20,432	\$379.99
AMD Ryzen 7 4700GE		20,416	NA
Intel Core i5-12500		20,380	\$202.00*
Intel Core i9-11900T @ 1.50GHz		20,225	\$439.00*
AMD Ryzen 7 4700G		20,149	\$238.20
AMD Ryzen 5 5600G		19,835	\$167.11
AMD Ryzen 5 5500		19,799	\$138.99
Intel Core i5-12400F		19,761	\$169.95
Intel Core i5-11600K @ 3.90GHz		19,760	\$198.43
Intel Core i5-11600KF @ 3.90GHz		19,723	\$240.99
Intel Core i9-9900KS @ 4.00GHz		19,524	\$896.99
Intel Core i5-12400		19,439	\$192.00*
Intel Core i7-10700K @ 3.80GHz		19,253	\$328.99
Intel Core i7-10700KF @ 3.80GHz		19,105	\$282.00
AMD Ryzen 5 5600GE		18,879	NA
AMD Ryzen 5 3600XT		18,766	\$349.33
AMD Ryzen 5 PRO 5650GE		18,651	NA
AMD Ryzen 7 PRO 4750GE		18,449	NA
AMD Ryzen 5 3600X		18,281	\$159.89
Intel Core i5-11600 @ 2.80GHz		18,277	\$199.99
AMD 4700S		18,271	NA
Intel Core i5-12600T		18,202	NA
AMD Ryzen 5 PRO 3600		17,900	NA
AMD Ryzen 5 3600		17,817	\$129.39
Intel Core i5-11500B @ 3.30GHz		17,801	NA
Intel Core i5-12500T		17,728	\$202.00*
Intel Core i5-11500 @ 2.70GHz		17,637	\$193.90
Apple M1 Pro 8 Core 3200 MHz		17,461	NA
Intel Core i5-11400F @ 2.60GHz		17,191	\$149.99
Intel Core i5-11400 @ 2.60GHz		17,135	\$172.99
Intel Core i7-10700F @ 2.90GHz		16,988	\$249.99
Intel Core i7-10700 @ 2.90GHz		16,900	\$268.96
Intel Core i9-9900 @ 3.10GHz		16,881	\$458.40
AMD Ryzen 5 PRO 4400G		16,456	NA
AMD Ryzen 5 PRO 4650G		16,399	\$219.99
AMD Ryzen 5 4500		15,970	\$129.00
AMD Ryzen 5 PRO 4650GE		15,708	NA

AMD Ryzen 5 4600GE		15,656	NA
AMD Ryzen 5 4600G		15,585	\$154.00
 Intel Core i5-11600T @ 1.70GHz		15,352	\$213.00*
Intel Core i9-10900T @ 1.90GHz		15,134	\$439.00*
Intel Core i7-11700T @ 1.40GHz		15,122	\$323.00*
Intel Core i3-12300		14,955	\$143.00*
Intel Xeon W-1250P @ 4.10GHz		14,924	\$596.66*
Apple M1 8 Core 3200 MHz		14,660	NA
AMD Ryzen 7 2700E		14,657	NA
Intel Core i5-10600KF @ 4.10GHz		14,568	\$179.99
Intel Core i3-12100		14,555	\$122.00*
Intel Core i5-10600K @ 4.10GHz		14,534	\$203.97
AMD Ryzen 3 PRO 5350G		13,976	NA
Intel Core i9-9900T @ 2.10GHz		13,947	\$439.00*
Intel Core i5-10600 @ 3.30GHz		13,913	\$214.99
AMD Ryzen 3 PRO 5350GE		13,707	NA
Intel Core i5-11500T @ 1.50GHz		13,703	\$192.00*
AMD Ryzen 3 5300GE		13,636	NA
Intel Core i7-9700F @ 3.00GHz		13,472	\$299.99
Intel Core i7-9700 @ 3.00GHz		13,384	\$307.40
AMD Ryzen 5 3500X		13,319	\$127.95
Intel Core i7-10700T @ 2.00GHz		13,223	\$447.99*
Intel Core i5-11400T @ 1.30GHz		13,199	\$182.00*
AMD Ryzen 3 5300G		13,139	NA
Intel Core i5-10500 @ 3.10GHz		13,014	\$199.99
AMD Ryzen 5 3500		12,828	NA
Intel Core i3-12100T		12,767	\$122.00*
AMD Ryzen 3 3300X		12,746	\$261.00
Intel Core i7-9700E @ 2.60GHz		12,462	\$323.00*
Intel Core i5-10400F @ 2.90GHz		12,417	\$123.90
Intel Core i5-10400 @ 2.90GHz		12,312	\$145.99
Intel Core i5-10505 @ 3.20GHz		12,168	NA
AMD Ryzen 3 3100		11,657	\$137.95
Intel Core i3-11100B @ 3.60GHz		11,357	NA
AMD Ryzen 3 4300GE		11,323	NA
AMD Ryzen 3 PRO 4200G		11,315	NA
AMD Ryzen 3 4100		11,279	\$147.59
AMD Ryzen 3 PRO 4350GE		11,270	NA
Intel Core i5-10600T @ 2.40GHz		11,210	\$213.00*
AMD Ryzen 3 PRO 4350G		10,862	NA
Intel Core i7-9700TE @ 1.80GHz		10,826	\$323.00*
AMD Ryzen 3 4300G		10,756	NA
Intel Core i7-9700T @ 2.00GHz		10,736	\$323.00*
Intel Core i5-10500T @ 2.30GHz		10,375	\$192.00*
Intel Core i5-9600 @ 3.10GHz		10,369	\$256.28
Intel Core i5-9500F @ 3.00GHz		10,330	\$182.00
Intel Core i3-10325 @ 3.90GHz		10,308	\$154.00*
Intel Core i3-10320 @ 3.80GHz		10,125	\$132.95
Intel Core i5-10400T @ 2.00GHz		10,052	\$182.00*

Intel Core i3-10305 @ 3.80GHz		9,689	\$159.99
AMD Ryzen 5 3350GE		9,684	NA
AMD Ryzen 5 PRO 3350GE		9,643	NA
AMD Ryzen 5 PRO 3350G		9,487	NA
AMD Ryzen 5 3400G		9,326	\$177.00
AMD Ryzen 5 PRO 3400G		9,307	NA
Intel Core i3-10300 @ 3.70GHz		9,153	\$129.62
Intel Core i3-10105F @ 3.70GHz		9,129	\$78.99
Intel Core i7-9850HL @ 1.90GHz		9,112	\$395.00*
AMD Ryzen 5 3350G		9,067	NA
AMD Ryzen 5 3400GE		8,985	NA
Intel Core i3-10105 @ 3.70GHz		8,923	\$111.98
Intel Core i3-10100F @ 3.60GHz		8,851	\$75.95
Intel Core i3-10100 @ 3.60GHz		8,793	\$99.95
Intel Core i5-10300H @ 2.50GHz		8,673	\$250.00*
Intel Core i5-9600T @ 2.30GHz		8,464	\$213.00*
AMD Ryzen 5 PRO 3400GE		8,274	NA
Intel Core i3-10100E @ 3.20GHz		8,229	\$125.00*
AMD Ryzen Embedded V1756B		8,215	NA
Intel Core i3-10305T @ 3.00GHz		8,136	\$143.00*
Intel Core i3-10300T @ 3.00GHz		7,997	\$175.91*
Intel Core i3-10105T @ 3.00GHz		7,850	\$122.00*
Intel Core i5-9400T @ 1.80GHz		7,819	\$182.00*
AMD Athlon Gold PRO 3150G		7,702	NA
Intel Core i3-9350K @ 4.00GHz		7,694	\$293.22*
Intel Core i3-9320 @ 3.70GHz		7,358	\$217.13
AMD Ryzen 3 3200GE		7,317	NA
Intel Core i3-9300 @ 3.70GHz		7,279	\$194.99
AMD Ryzen 3 3200G		7,179	\$179.99
AMD Athlon Gold PRO 3150GE		7,068	NA
AMD Athlon Gold 3150G		7,002	NA
AMD Ryzen 3 PRO 3200G		6,957	NA
Intel Pentium Gold G7400		6,852	\$86.99
Intel Core i3-9100 @ 3.60GHz		6,627	\$165.00
AMD Ryzen Embedded V1404I		6,241	NA
Intel Core i3-9300T @ 3.20GHz		6,162	\$143.00*
Intel Core i3-9100T @ 3.10GHz		5,465	\$122.00*
Intel Core i5-4470S @ 3.00GHz		4,742	NA
AMD Athlon Silver PRO 3125GE		4,633	NA
Intel Celeron N5095A @ 2.00GHz		4,627	NA
Intel Pentium Gold G6605 @ 4.30GHz		4,493	\$124.40
AMD Athlon 3000G		4,479	\$54.99*
AMD Athlon PRO 300GE		4,475	NA
Intel Pentium Gold G6600 @ 4.20GHz		4,396	\$107.35
Intel Pentium Gold G6505 @ 4.20GHz		4,378	\$75.00*
AMD Athlon 320GE		4,300	NA
Intel Pentium Gold G6405 @ 4.10GHz		4,292	\$52.99
AMD Athlon 300GE		4,291	NA
Intel Pentium Gold G5600F @ 3.90GHz		4,160	\$92.99

AMD Ryzen Embedded R1606G		4,153	NA
Intel Pentium Gold G6500 @ 4.10GHz		4,147	\$96.99
Intel Pentium Gold G6400 @ 4.00GHz		4,131	\$68.99
Intel Pentium Gold G5620 @ 4.00GHz		4,102	\$159.99*
Intel Celeron N5095 @ 2.00GHz		4,019	NA
Intel Pentium Gold G6500T @ 3.50GHz		4,005	\$75.00*
Intel Pentium Gold G6405T @ 3.50GHz		3,746	\$64.00*
Intel Pentium Gold G5420 @ 3.80GHz		3,648	\$127.55
Intel Pentium Gold G6400T @ 3.40GHz		3,610	\$64.00*
Intel Pentium Gold G5600T @ 3.30GHz		3,601	NA
Intel Pentium Silver J5040 @ 2.00GHz		3,543	NA
Intel Pentium Gold G5420T @ 3.20GHz		3,508	\$64.00*
Intel Celeron G6900		3,446	\$70.00
Intel Celeron J4125 @ 2.00GHz		2,991	NA
Intel Celeron G5925 @ 3.60GHz		2,939	\$52.00
Intel Celeron G5905 @ 3.50GHz		2,815	\$47.98
Intel Celeron G5900 @ 3.40GHz		2,790	\$53.99
Intel Celeron G4950 @ 3.30GHz		2,714	\$1,008.66*
Intel Celeron J4115 @ 1.80GHz		2,709	NA
Intel Celeron G5900T @ 3.20GHz		2,648	\$42.00*
Intel Celeron G4930 @ 3.20GHz		2,571	\$57.98
AMD Athlon II X4 557		2,567	NA
Intel Celeron G5920 @ 3.50GHz		2,482	\$76.99
Intel Celeron G5905T @ 3.30GHz		2,310	\$42.00*
Intel Celeron G4930T @ 3.00GHz		2,250	\$42.00*
Intel Celeron G3930TE @ 2.70GHz		2,218	\$42.00*
Intel Celeron J3455E @ 1.50GHz		2,139	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		1,702	NA
Intel Pentium G2120T @ 2.70GHz		1,613	NA
AMD R-272F APU		1,215	NA

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