



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 9th of January 2024

CPU	CPU Mark		Price (USD)
AMD Ryzen Threadripper PRO 7995WX		153,096	\$9,999.00*
AMD Ryzen Threadripper PRO 7985WX		136,854	NA
AMD Ryzen Threadripper 7980X		135,872	NA
AMD Ryzen Threadripper PRO 7975WX		99,930	NA
AMD Ryzen Threadripper 7970X		99,129	NA
AMD Ryzen Threadripper PRO 5995WX		94,850	\$5,699.99
AMD Ryzen Threadripper PRO 7965WX		84,785	NA
AMD Ryzen Threadripper 7960X		82,862	NA
AMD Ryzen Threadripper PRO 5975WX		76,045	\$2,699.99
AMD Ryzen Threadripper PRO 5965WX		66,117	\$1,999.99
AMD Ryzen 9 7950X		63,149	\$540.99
AMD Ryzen 9 7950X3D		62,567	\$661.08
Intel Core i9-13900KS		61,880	\$999.99
Intel Core i9-14900K		61,243	\$589.00*
AMD Ryzen Threadripper PRO 7955WX		61,073	NA
Intel Core i9-14900KF		60,520	NA
Intel Core i9-13900K		59,481	\$569.97
Intel Core i9-13900KF		58,813	\$546.49
Intel Core i7-14700KF		53,480	\$384.00*
Intel Core i7-14700K		53,383	\$409.00*

AMD Ryzen 9 7900X		52,058	\$409.00
AMD Ryzen Threadripper PRO 7945WX		50,835	NA
CPU Benchmarks			
AMD Ryzen Threadripper PRO 5955WX		50,245	\$1,099.99
AMD Ryzen 9 7900		49,068	\$419.99
Apple M2 Ultra 24 Core		48,716	NA
Intel Core i9-13900		48,114	\$549.99
Intel Core i7-13700K		46,649	\$407.99
Intel Core i7-13700KF		46,456	\$390.98
Intel Core i7-13790F		46,110	NA
Intel Core i9-13900T		44,700	\$549.00*
Intel Core i9-12900KS		44,183	\$399.99
Intel Core i9-12900K		41,404	\$352.99
Intel Core i9-12900KF		41,188	\$398.99
Apple M1 Ultra 20 Core		40,889	NA
AMD Ryzen Threadripper PRO 5945WX		40,595	NA
Intel Core i5-14600K		39,571	\$319.00*
Intel Core i7-13700F		39,454	\$360.99
Intel Core i5-14600KF		38,897	\$294.00*
Intel Core i5-13600K		38,235	\$309.99
Intel Core i7-13700		38,149	\$349.99
Intel Core i5-13600KF		38,068	\$292.99
Intel Core i9-12900F		36,998	\$425.00
AMD Ryzen 7 7700X		36,129	\$315.75
AMD Ryzen 9 PRO 5945		34,756	NA
AMD Ryzen 7 7700		34,732	\$319.79
Intel Core i7-12700K		34,713	\$409.00*
AMD Ryzen 7 7800X3D		34,454	\$439.00
Intel Core i7-12700KF		34,453	\$276.00
AMD Ryzen 9 5900		34,445	NA
Intel Core i9-12900		34,292	\$449.99
Intel Core i5-13600		32,765	\$255.00*
Intel Core i5-13500		32,269	\$247.98
Intel Xeon W-3265M @ 2.70GHz		32,025	\$6,353.00*
Intel Core i7-12700		30,887	\$325.49
Intel Core i7-12700F		30,876	\$284.99
Intel Core i9-12900T		30,315	\$489.00*
Intel Core i7-12700E		29,289	\$344.00*
Intel Core i7-13700T		28,815	\$384.00*
AMD Ryzen 5 7600X		28,678	\$218.00
AMD Ryzen 7 5800X3D		28,271	\$289.55
Intel Core i5-12600K		27,786	\$199.99
Intel Core i5-13490F		27,783	\$263.66
Intel Core i5-12600KF		27,449	\$219.94
AMD Ryzen 5 7600		27,349	\$219.99
AMD Ryzen 5 7500F		26,912	NA
AMD Ryzen 7 5700X		26,735	\$184.99

AMD Ryzen 7 PRO 5845		26,162	NA
Intel Xeon W-3323 @ 3.50GHz		25,875	\$949.00*
CPU Benchmarks			
Intel Xeon W-1390P @ 3.50GHz		25,451	NA
Intel Core i9-11900K @ 3.50GHz		25,379	\$318.90
Intel Core i5-13400F		25,345	\$164.99
Intel Core i9-11900KF @ 3.50GHz		25,253	\$415.99
Intel Core i5-13400		25,102	\$228.26
AMD Ryzen 7 5700G		24,643	\$167.86
Intel Xeon W-1370P @ 3.60GHz		24,540	\$508.99
AMD Ryzen 7 PRO 5750G		24,419	NA
AMD Ryzen 7 5700		24,338	NA
Intel Core i5-13500T		24,105	\$232.00*
Intel Core i7-11700KF @ 3.60GHz		24,056	\$262.99
Intel Xeon W-1370 @ 2.90GHz		23,449	\$468.99
Intel Core i9-11900 @ 2.50GHz		22,980	\$419.99
Intel Core i9-11900KB @ 3.30GHz		22,880	\$539.00*
Intel Core i7-11700B @ 3.20GHz		22,851	NA
Intel Core i9-11900F @ 2.50GHz		22,676	\$418.99
AMD Ryzen 7 5700GE		22,196	NA
AMD Ryzen 5 5600X3D		22,086	NA
AMD Ryzen Threadripper 1920		22,066	NA
AMD Ryzen 7 PRO 5750GE		22,038	NA
Apple M1 Max 10 Core 3200 MHz		22,025	NA
AMD Ryzen 5 PRO 5645		21,904	NA
Intel Core i7-12700T		21,872	\$339.00*
Apple M1 Pro 10 Core 3200 MHz		21,796	NA
AMD Ryzen 5 5600		21,592	\$119.99
Apple M2 Pro 10 Core 3480 MHz		21,544	NA
Intel Core i5-12600		21,385	\$260.00
Intel Core i7-11700F @ 2.50GHz		21,091	\$225.99
AMD Ryzen 5 PRO 5650G		20,822	NA
Intel Core i5-12490F		20,600	\$181.99
Intel Core i5-13400T		20,513	\$221.00*
Intel Core i5-12500		19,983	\$202.00*
Intel Core i7-11700 @ 2.50GHz		19,977	\$194.99
AMD Ryzen 5 5600G		19,902	\$121.80
Intel Core i5-11600KF @ 3.90GHz		19,673	\$214.82
Intel Core i5-11600K @ 3.90GHz		19,666	\$178.48
Intel Core i9-10900E @ 2.80GHz		19,595	\$444.00*
Intel Core i5-12400F		19,557	\$149.99
AMD Ryzen 5 5500		19,514	\$84.99
Intel Core i5-12400		19,456	\$192.00*
Intel Core i9-11900T @ 1.50GHz		18,968	\$439.00*
Apple M3 8 Core		18,895	NA
AMD Ryzen 5 5600GE		18,729	NA
AMD Ryzen 5 PRO 5650GE		18,441	NA

AMD 4700S		18,078	NA
Intel Core i5-11500R @ 3.30GHz		17,860	NA
CPU Benchmarks			
Intel Core i5-11500 @ 2.70GHz		17,460	\$208.50
Apple M1 Pro 8 Core 3200 MHz		17,134	NA
Intel Core i5-11400F @ 2.60GHz		17,119	\$119.99
Intel Core i5-11400 @ 2.60GHz		17,086	\$139.40
Intel Core i5-12500T		16,663	\$202.00*
AMD Ryzen 5 PRO 4655G		16,355	NA
Intel Core i5-12400T		16,317	\$149.99
Intel Core i7-11700T @ 1.40GHz		16,228	\$323.00*
AMD Ryzen 5 4500		16,171	\$75.09
Apple M2 8 Core 3500 MHz		15,404	NA
Intel Core i3-13100		14,724	\$128.67
Intel Core i3-12300		14,720	\$143.00*
Intel Core i5-11600T @ 1.70GHz		14,713	\$213.00*
Intel Core i3-13100F		14,632	\$110.99
Intel Xeon W-1250P @ 4.10GHz		14,440	\$321.50*
AMD Ryzen 5 PRO 4655GE		14,436	NA
Intel Core i3-12100F		14,203	\$136.99
Apple M1 8 Core 3200 MHz		14,188	NA
AMD Ryzen 3 PRO 5350G		13,871	NA
Intel Core i5-11400T @ 1.30GHz		13,644	\$182.00*
Intel Core i3-12100		13,512	\$122.00*
AMD Ryzen 3 PRO 5350GE		13,448	NA
AMD Ryzen 3 5300GE		13,321	NA
Intel Core i3-12300T		13,251	\$157.00*
Intel Core i3-13100T		13,210	\$134.00*
Intel Core i5-11500T @ 1.50GHz		13,075	\$192.00*
AMD Ryzen 3 5300G		12,892	NA
Intel Core i3-12100T		12,675	\$122.00*
Intel Core i5-10505 @ 3.20GHz		12,245	NA
Intel Core i3-11100B @ 3.60GHz		11,357	NA
AMD Ryzen 3 PRO 4200G		11,315	NA
AMD Ryzen 3 4100		11,075	\$64.99
AMD Ryzen 3 PRO 4355GE		10,559	NA
Intel Core i3-10325 @ 3.90GHz		10,268	\$190.10*
Intel Core i3-10305 @ 3.80GHz		9,108	\$167.11
Intel Core i3-10105F @ 3.70GHz		9,005	\$74.00
Intel Core i3-10105 @ 3.70GHz		8,639	\$104.70
Intel Core i3-10100E @ 3.20GHz		8,365	\$125.00*
Intel Core i3-10305T @ 3.00GHz		8,136	\$143.00*
Intel Core i3-10105T @ 3.00GHz		8,025	\$122.00*
AMD Athlon Gold 3150G		7,112	NA
Intel Pentium Gold G7400		6,757	\$89.99
Intel Pentium Gold G7400T		5,688	\$64.00*
Intel Celeron G6900		4,508	\$79.90

AMD Athlon 320GE		4,388	NA
Intel Pentium Gold G6505 @ 4.20GHz		4,378	\$75.00*
CPU Benchmarks			
Intel Pentium Gold G6405 @ 4.10GHz		4,254	\$71.90
Intel Celeron N5095A @ 2.00GHz		4,119	NA
Intel Celeron N5095 @ 2.00GHz		4,101	NA
Intel Celeron G6900T		4,003	\$42.00*
Intel Core i5-4470 @ 3.30GHz		3,971	NA
Intel Pentium Gold G6500T @ 3.50GHz		3,874	\$75.00*
AMD Athlon X4 970		3,850	NA
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		3,588	\$64.00*
Intel Celeron G5925 @ 3.60GHz		2,809	\$44.87
Intel Celeron G4950 @ 3.30GHz		2,714	\$119.99*
Intel Celeron G5900T @ 3.20GHz		2,620	\$42.00*
AMD Athlon II X4 557		2,567	NA
AMD Athlon X4 730		2,278	NA
AMD A8-7690K		2,157	NA
Intel Celeron G5905T @ 3.30GHz		2,100	\$42.00*
AMD Athlon X4 530		1,786	NA
AMD Athlon X2 450		1,295	NA

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