

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 November 2022

CPU	CPU Mark	Price (USD)
AMD Ryzen Threadripper PRO 5995WX	99,476	\$6,667.01
AMD Ryzen Threadripper PRO 3995WX	83,189	\$7,000.00
AMD Ryzen Threadripper 3990X	81,343	\$6,539.76
AMD Ryzen Threadripper PRO 5975WX	75,807	\$3,299.00
AMD Ryzen Threadripper PRO 5965WX	67,021	\$2,399.00
AMD Ryzen 9 7950X	63,583	\$699.00
AMD Ryzen Threadripper 3970X	63,532	\$1,999.99
AMD Ryzen Threadripper PRO 3975WX	62,952	\$3,098.00
Intel Core i9-13900KF	60,252	\$659.99
Intel Core i9-13900K	58,885	\$795.00
AMD Ryzen Threadripper 3960X	54,758	\$1,355.00

Intel Core i7-13700KF	46,870	\$421.98
Intel Core i7-13700K	46,691	\$439.99
 CPU Benchmarks ▼		
Intel Core i9-12900KS	44,609	\$631.00
Intel Core i9-12900K	41,522	\$499.97
Intel Core i9-12900KF	41,507	\$497.81
Apple M1 Ultra 20 Core	41,029	NA
AMD Ryzen Threadripper PRO 5945WX	40,784	NA
AMD Ryzen Threadripper PRO 3955WX	40,281	\$1,180.00
Intel Xeon W-3265M @ 2.70GHz	39,618	\$6,353.00*
AMD Ryzen 9 5900X	39,307	\$341.85
AMD Ryzen 9 3950X	39,042	\$610.00
Intel Core i5-13600KF	38,019	\$309.98
Intel Core i5-13600K	38,018	\$300.00
Intel Core i9-12900F	37,522	\$529.99
AMD Ryzen 7 7700X	36,443	\$398.99
Intel Core i9-12900	36,044	\$508.42
Intel Core i7-12700K	34,670	\$409.00*
AMD Ryzen 9 5900	34,646	NA
Intel Core i7-12700KF	34,496	\$363.91
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	33,181	\$999.99
AMD Ryzen 9 3900XT	32,894	\$368.93
Intel Core i9-12900T	32,169	\$489.00*
Intel Core i7-12700F	31,471	\$324.99
Intel Core i7-12700	31,381	\$405.81
Intel Core i5-13500	30,650	NA
Intel Core i9-9990XE @ 4.00GHz	30,162	\$2,163.00*
AMD Ryzen 5 7600X	28,798	\$299.00
Intel Core i9-10940X @ 3.30GHz	28,341	\$681.99
Intel Core i7-12700E	28,292	\$344.00*
AMD Ryzen 7 5800X	28,125	\$249.00
Intel Xeon W-2275 @ 3.30GHz	27,905	\$1,112.00*
Intel Core i5-12600K	27,734	\$279.99
AMD Ryzen 7 5800X3D	27,591	\$329.00
Intel Core i5-12600KF	27,419	\$276.99
AMD Ryzen 7 PRO 5845	26,807	NA
AMD Ryzen 7 5700X	26,673	\$238.99
Intel Core i9-10920X @ 3.50GHz	26,488	\$659.99
Intel Core i5-13400	26,355	NA
Intel Xeon W-3323 @ 3.50GHz	25,875	\$949.00*
AMD Ryzen 7 5800	25,834	NA
Intel Xeon W-1390P @ 3.50GHz	25,558	NA
Intel Core i9-11900K @ 3.50GHz	25,525	\$359.95
Intel Core i9-11900KF @ 3.50GHz	25,465	\$409.99

AMD Ryzen 7 5700	24,838	NA
Intel Core i7-11700K @ 3.60GHz	24,669	\$275.00
 CPU Benchmarks ▼		
Intel Core i7-11700KF @ 3.60GHz	24,107	\$264.99
Intel Xeon W-1370 @ 2.90GHz	23,908	\$415.99
AMD Ryzen 7 3800XT	23,762	\$340.00
Intel Core i9-10900K @ 3.70GHz	23,554	\$346.99
Intel Core i9-10900KF @ 3.70GHz	23,210	\$339.99
Intel Core i9-11900F @ 2.50GHz	22,991	\$449.00
Intel Core i9-11900 @ 2.50GHz	22,978	\$292.99
Intel Core i9-10850K @ 3.60GHz	22,871	\$389.99
Intel Core i9-11900KB @ 3.30GHz	22,864	\$539.00*
Intel Core i7-12700T	22,645	\$339.00*
Intel Core i9-10900X @ 3.70GHz	22,625	\$550.00
Intel Core i7-11700B @ 3.20GHz	22,600	NA
AMD Ryzen 7 5700GE	22,484	NA
Intel Xeon W-2255 @ 3.70GHz	22,266	\$778.00*
Apple M1 Max 10 Core 3200 MHz	22,245	NA
AMD Ryzen 7 PRO 5750GE	22,229	NA
AMD Ryzen Threadripper 1920	22,066	NA
Apple M1 Pro 10 Core 3200 MHz	22,025	NA
AMD Ryzen 5 5600X	21,958	\$144.01
Intel Core i9-10910 @ 3.60GHz	21,794	NA
AMD Ryzen 5 PRO 5645	21,762	NA
AMD Ryzen 5 5600	21,523	\$138.99
Intel Core i5-12600	21,210	\$249.99
Intel Core i7-11700F @ 2.50GHz	21,176	\$275.99
AMD Ryzen 7 PRO 4700G	20,848	NA
Intel Core i5-12490F	20,831	\$163.13
Intel Core i9-10900E @ 2.80GHz	20,658	\$444.00*
Intel Core i9-10900F @ 2.80GHz	20,606	\$408.42
AMD Ryzen 7 PRO 4750G	20,584	\$259.99
Intel Core i5-12500	20,287	\$202.00*
Intel Core i9-10900 @ 2.80GHz	20,262	\$399.99
AMD Ryzen 7 4700G	20,223	\$237.94
AMD Ryzen 7 4700GE	20,218	NA
AMD Ryzen 5 PRO 5650G	20,100	NA
Intel Core i7-11700 @ 2.50GHz	20,074	\$194.99
AMD Ryzen 5 5600G	19,836	\$129.00
Intel Core i5-12400F	19,803	\$174.99
Intel Core i5-11600K @ 3.90GHz	19,752	\$255.99
Intel Core i5-11600KF @ 3.90GHz	19,692	\$200.94
Intel Core i5-12400	19,520	\$192.00*
AMD Ryzen 5 5500	19,474	\$99.00
Intel Core i7-10700K @ 3.80GHz	19,173	\$230.00
Intel Core i7-10700KF @ 3.80GHz	19,028	\$279.99
AMD Ryzen 5 5600GE	18,879	NA

AMD Ryzen 7 PRO 4750GE	18,470	NA
Intel Core i9-11900T @ 1.50GHz	18,293	\$439.00*
 CPU Benchmarks ▼		
AMD 4700S	18,102	NA
Intel Core i5-11500B @ 3.30GHz	17,801	NA
Intel Core i5-11500 @ 2.70GHz	17,581	\$217.28
Intel Core i5-12500T	17,421	\$202.00*
Apple M1 Pro 8 Core 3200 MHz	17,245	NA
Intel Core i5-11400F @ 2.60GHz	17,207	\$149.99
Intel Core i5-11400 @ 2.60GHz	17,078	\$129.99
Intel Core i5-12600T	17,033	NA
Intel Core i7-10700F @ 2.90GHz	16,997	\$249.99
Intel Core i7-10700 @ 2.90GHz	16,796	\$286.99
Intel Core i5-12400T	16,534	\$169.99*
AMD Ryzen 5 PRO 4400G	16,354	NA
AMD Ryzen 5 PRO 4650G	16,323	\$209.98
AMD Ryzen 5 4500	16,005	\$79.00
Intel Core i7-11700T @ 1.40GHz	15,754	\$323.00*
AMD Ryzen 5 4600GE	15,641	NA
AMD Ryzen 5 4600G	15,608	\$113.99
AMD Ryzen 5 PRO 4650GE	15,607	NA
Intel Core i9-10900T @ 1.90GHz	15,520	\$339.99
Apple M2 8 Core 3500 MHz	15,516	NA
Intel Core i3-12300	15,023	\$143.00*
Intel Core i5-11600T @ 1.70GHz	14,713	\$213.00*
Intel Core i5-10600KF @ 4.10GHz	14,501	\$209.99
Intel Core i5-10600K @ 4.10GHz	14,495	\$195.10
Intel Xeon W-1250P @ 4.10GHz	14,476	\$321.50*
Apple M1 8 Core 3200 MHz	14,409	NA
Intel Core i3-12100F	14,342	\$105.98
Intel Core i3-12100	14,328	\$122.00*
Intel Core i9-9900T @ 2.10GHz	14,092	\$439.00*
AMD Ryzen 3 PRO 5350G	13,911	NA
Intel Core i5-10600 @ 3.30GHz	13,829	\$208.88
AMD Ryzen 3 PRO 5350GE	13,685	NA
AMD Ryzen 3 5300GE	13,636	NA
Intel Core i5-11400T @ 1.30GHz	13,231	\$182.00*
Intel Core i5-11500T @ 1.50GHz	13,160	\$192.00*
Intel Core i7-10700T @ 2.00GHz	13,019	\$413.99*
AMD Ryzen 3 5300G	13,011	NA
Intel Core i5-10500 @ 3.10GHz	12,950	\$216.99
Intel Core i3-12100T	12,840	\$122.00*
Intel Core i7-9700E @ 2.60GHz	12,751	\$323.00*
AMD Ryzen 3 3300X	12,687	\$250.00
Intel Core i5-10400F @ 2.90GHz	12,371	\$128.98
Intel Core i5-10400 @ 2.90GHz	12,309	\$164.00
Intel Core i5-10505 @ 3.20GHz	12,257	NA

AMD Ryzen 3 4100	11,349	\$114.00
AMD Ryzen 3 4300G	11,316	NA
 CPU Benchmarks ▼		
Intel Core i5-10600T @ 2.40GHz	11,210	\$213.00*
AMD Ryzen 3 PRO 4350GE	11,082	NA
AMD Ryzen 3 PRO 4350G	10,898	NA
AMD Ryzen 3 4300G	10,783	\$205.00
Intel Core i7-9700TE @ 1.80GHz	10,740	\$323.00*
Intel Core i3-10325 @ 3.90GHz	10,362	\$190.10*
Intel Core i5-10500T @ 2.30GHz	10,271	\$192.00*
Intel Core i3-10320 @ 3.80GHz	10,037	\$139.99
Intel Core i5-10400T @ 2.00GHz	9,983	\$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	9,194	\$169.99
AMD Ryzen 5 3350G	9,113	NA
Intel Core i7-9850HL @ 1.90GHz	9,112	\$395.00*
Intel Core i3-10105F @ 3.70GHz	9,110	\$79.96
Intel Core i3-10305 @ 3.80GHz	9,108	\$169.99
AMD Ryzen 5 3400GE	8,897	NA
Intel Core i3-10100F @ 3.60GHz	8,843	\$78.99
Intel Core i3-10105 @ 3.70GHz	8,776	\$117.99
Intel Core i3-10100 @ 3.60GHz	8,754	\$104.33
Intel Core i5-10300H @ 2.50GHz	8,646	\$250.00*
Intel Core i5-9600T @ 2.30GHz	8,464	\$213.00*
Intel Core i3-10100E @ 3.20GHz	8,229	\$125.00*
Intel Core i3-10305T @ 3.00GHz	8,136	\$143.00*
Intel Core i3-10300T @ 3.00GHz	8,119	\$177.72*
Intel Core i3-10105T @ 3.00GHz	7,847	\$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	6,749	\$45.00
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 Pentium Gold G6600 @ 4.20GHz	4,396	\$130.42
Intel Celeron G6900	4,394	\$69.99
Intel Pentium Gold G6505 @ 4.20GHz	4,378	\$75.00*
Intel Celeron N5095A @ 2.00GHz	4,349	NA
AMD Athlon 300GE	4,301	NA

AMD Ryzen Embedded R1606G	4,166	NA
Intel Pentium Gold G6500 @ 4.10GHz	4,147	\$92.99
CPU Benchmarks		
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 G6500T @ 3.50GHz	4,005	\$75.00*
Intel Pentium Gold G6405T @ 3.50GHz	3,746	\$64.00*
Intel Pentium Gold G5600T @ 3.30GHz	3,601	NA
Intel Pentium Gold G6400T @ 3.40GHz	3,586	\$64.00*
Intel Pentium Silver J5040 @ 2.00GHz	3,453	NA
Intel Celeron J4125 @ 2.00GHz	2,986	NA
Intel Celeron G5905 @ 3.50GHz	2,830	\$38.99
Intel Celeron G5925 @ 3.60GHz	2,721	\$64.99
Intel Celeron G4950 @ 3.30GHz	2,714	\$1,008.65*
Intel Celeron J4115 @ 1.80GHz	2,708	NA
Intel Celeron G5900 @ 3.40GHz	2,672	\$35.99
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	2,258	\$42.00*
Intel Celeron G5905T @ 3.30GHz	2,216	\$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	1,695	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

//

Software[BurnInTest](#)[PerformanceTest](#)[OSForensics](#)[MemTest86](#)[WirelessMon](#)[Zoom Search Engine](#)**Hardware**[USB3.0 Loopback Plugs](#)[USB2.0 Loopback Plugs](#)[PCIe Test Cards](#)[USB Power Delivery Tester](#)[Serial and Parallel Loopback Plugs](#)[USB Short Circuit Testers](#)

Benchmarks

[CPU Benchmarks](#)

 **CPU Benchmarks** ▼

[Hard Drive Benchmarks](#)

[RAM Benchmarks](#)

[PC Systems Benchmarks](#)

[Android Benchmarks](#)

[iOS / iPhone Benchmarks](#)

[Software Marketshare](#)

[Internet Bandwidth](#)

Services

[Store](#)

[Support](#)

[Forums](#)

About Us

[Company](#)

[The Press Room](#)

International

[Disclaimer](#)

[Refunds](#)

[Privacy](#)

Social



Copyright © 2022 PassMark® Software

