



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 9th of November 2021


CPU	CPU Mark	Price (USD)
AMD Ryzen Threadripper PRO 3995WX	86,249	\$5,489.00
AMD Ryzen Threadripper 3990X	81,022	\$4,947.77
AMD Ryzen Threadripper 3970X	63,947	\$2,383.07
AMD Ryzen Threadripper PRO 3975WX	63,214	\$2,689.99
AMD Ryzen Threadripper 3960X	55,075	\$1,599.99
AMD Ryzen 9 5950X	46,143	\$746.34
Intel Core i9-12900KF	41,353	\$877.99
AMD Ryzen Threadripper PRO 3955WX	40,273	\$1,186.17


Intel Xeon W-3265M @ 2.70GHz	39,765	\$6,353.00*
AMD Ryzen 9 5900X	39,516	\$524.00
 CPU Benchmarks ▼		
Intel Core i9-12900K	38,462	\$799.95
Intel Xeon W-3175X @ 3.10GHz	36,360	\$2,799.88
AMD Ryzen 9 5900	35,329	NA
AMD Ryzen Threadripper PRO 3945WX	33,735	NA
Intel Core i9-10980XE @ 3.00GHz	33,733	\$1,056.82
AMD Ryzen 9 3900XT	32,899	\$599.00
AMD Ryzen 9 3900X	32,803	\$439.99
Intel Core i9-9980XE @ 3.00GHz	32,072	\$1,123.78
AMD Ryzen 9 PRO 3900	31,484	NA
Intel Core i9-9960X @ 3.10GHz	31,206	\$1,498.95
AMD Ryzen 9 3900	30,896	\$634.00
Intel Core i9-9990XE @ 4.00GHz	30,162	\$2,163.00*
Intel Core i7-12700K	29,989	\$409.00*
Intel Core i7-12700KF	29,249	\$429.99
Intel Core i9-10940X @ 3.30GHz	28,778	\$799.99
Intel Core i9-9940X @ 3.30GHz	28,486	\$1,099.95
AMD Ryzen 7 5800X	28,478	\$386.66
Intel Xeon W-2275 @ 3.30GHz	27,791	\$1,112.00*
Intel Core i9-10920X @ 3.50GHz	26,637	\$699.99
AMD Ryzen 7 5800	25,958	NA
Intel Xeon W-3323 @ 3.50GHz	25,875	\$949.00*
Intel Xeon W-1390P @ 3.50GHz	25,745	NA
Intel Core i9-11900KF @ 3.50GHz	25,635	\$549.99
Intel Core i9-11900K @ 3.50GHz	25,622	\$549.99
AMD Ryzen Threadripper 2920X	25,536	\$575.79
AMD Ryzen 7 PRO 5750G	25,441	NA
Intel Core i9-9920X @ 3.50GHz	25,350	\$899.99
Intel Core i7-11700B @ 3.20GHz	25,213	NA
Intel Xeon W-1370P @ 3.60GHz	25,202	\$486.99
Intel Xeon W-1370 @ 2.90GHz	25,163	\$390.55
Intel Core i7-11700K @ 3.60GHz	25,147	\$349.99
AMD Ryzen 7 5700G	24,788	\$329.00
Intel Core i7-11700KF @ 3.60GHz	24,557	\$380.99
Intel Core i9-11900KB @ 3.30GHz	24,537	\$539.00*
Intel Core i9-10900K @ 3.70GHz	23,979	\$458.99
Intel Core i9-11900F @ 2.50GHz	23,962	\$479.99
Intel Core i5-12600K	23,932	\$319.99
AMD Ryzen 7 3800XT	23,902	\$394.99
Intel Core i9-10900KF @ 3.70GHz	23,766	\$447.16
Apple M1 Pro 10 Core 3200 MHz	23,750	NA
Apple M1 Max 10 Core 3200 MHz	23,559	NA

Intel Core i9-11900 @ 2.50GHz	23,520	\$469.99
Intel Core i9-10850K @ 3.60GHz	23,340	\$409.99
 CPU Benchmarks ▼		
Intel Core i9-10900X @ 3.70GHz	22,848	\$589.99
AMD Ryzen 7 3700X	22,768	\$327.67
Intel Xeon W-2255 @ 3.70GHz	22,732	\$778.00*
AMD Ryzen 7 5700GE	22,566	NA
AMD Ryzen 7 PRO 5750GE	22,553	NA
AMD Ryzen 7 PRO 3700	22,546	\$329.99*
AMD Ryzen 5 5600X	22,155	\$284.88
AMD Ryzen Threadripper 1920	22,066	NA
Intel Core i9-9900X @ 3.50GHz	21,776	\$749.99
Intel Core i9-11900T @ 1.50GHz	21,759	\$439.00*
Intel Core i7-11700F @ 2.50GHz	21,602	\$319.99
Intel Core i9-10910 @ 3.60GHz	21,469	NA
Intel Core i7-11700 @ 2.50GHz	21,096	\$364.99
AMD Ryzen 5 PRO 5650G	21,087	NA
Intel Core i9-10900F @ 2.80GHz	21,041	\$429.99
AMD Ryzen 7 PRO 4700G	20,848	NA
Intel Core i9-10900 @ 2.80GHz	20,773	\$432.28
AMD Ryzen 7 4700GE	20,648	NA
AMD Ryzen 7 PRO 4750G	20,581	\$499.98
Intel Core i5-11600KF @ 3.90GHz	20,034	\$261.00
AMD Ryzen 7 4700G	20,023	\$339.00
AMD Ryzen 5 5600G	20,021	\$239.00
Intel Core i5-11600K @ 3.90GHz	19,960	\$249.99
Intel Core i9-9820X @ 3.30GHz	19,853	\$699.95
Intel Core i9-9900KS @ 4.00GHz	19,585	\$537.29
AMD Ryzen 7 PRO 4750GE	19,483	NA
Intel Core i7-10700K @ 3.80GHz	19,441	\$319.99
AMD Ryzen 5 PRO 5650GE	19,247	NA
Intel Core i7-10700KF @ 3.80GHz	19,235	\$311.47
AMD Ryzen 5 5600GE	18,879	NA
AMD Ryzen 5 3600XT	18,824	\$369.99
Intel Core i9-9900KF @ 3.60GHz	18,782	\$339.99
Intel Core i7-9800X @ 3.80GHz	18,320	\$1,023.99*
AMD Ryzen 5 3600X	18,306	\$234.76
Intel Core i5-11600 @ 2.80GHz	18,305	\$344.90
AMD 4700S	18,260	NA
Apple M1 Pro 8 Core 3200 MHz	18,065	NA
AMD Ryzen 5 PRO 3600	18,037	NA
Intel Core i5-11500 @ 2.70GHz	17,883	\$299.99
AMD Ryzen 5 3600	17,848	\$189.89
Intel Core i5-11400F @ 2.60GHz	17,729	\$229.99

Intel Core i5-11400 @ 2.60GHz	17,295	\$219.99
Intel Core i7-10700 @ 2.90GHz	17,195	\$399.99
 CPU Benchmarks ▼		
Intel Core i9-9900 @ 3.10GHz	16,996	\$327.99
AMD Ryzen 5 PRO 4650G	16,461	\$285.08
AMD Ryzen 5 PRO 4400G	16,456	NA
AMD Ryzen 5 4600GE	16,377	NA
AMD Ryzen 5 PRO 4650GE	15,808	NA
AMD Ryzen 5 4600G	15,675	NA
Intel Core i9-10900T @ 1.90GHz	15,592	\$439.00*
Apple M1 8 Core 3200 MHz	15,137	NA
Intel Core i5-11600T @ 1.70GHz	14,933	\$213.00*
AMD Ryzen 7 2700E	14,657	NA
Intel Xeon W-1250P @ 4.10GHz	14,632	\$374.40*
Intel Core i5-10600KF @ 4.10GHz	14,584	\$223.99
Intel Core i5-10600K @ 4.10GHz	14,582	\$269.99
Intel Core i7-9700KF @ 3.60GHz	14,572	\$350.06
AMD Ryzen 3 PRO 5350G	14,025	NA
Intel Core i5-10600 @ 3.30GHz	13,998	\$274.42
Intel Core i9-9900T @ 2.10GHz	13,896	\$439.00*
AMD Ryzen 3 5300GE	13,843	NA
AMD Ryzen 3 5300G	13,829	NA
AMD Ryzen 3 PRO 5350GE	13,707	NA
Intel Core i7-9700F @ 3.00GHz	13,493	\$261.00
Intel Core i7-9700 @ 3.00GHz	13,437	\$299.99
Intel Core i5-11400T @ 1.30GHz	13,367	\$182.00*
AMD Ryzen 5 3500X	13,366	\$172.34
Intel Core i7-11700T @ 1.40GHz	13,311	\$323.00*
Intel Core i7-10700T @ 2.00GHz	13,282	\$479.83
Intel Core i5-10500 @ 3.10GHz	13,161	\$226.69
AMD Ryzen 5 3500	12,887	NA
AMD Ryzen 3 3300X	12,766	\$274.98
Intel Core i5-10400F @ 2.90GHz	12,446	\$169.49
Intel Core i5-10400 @ 2.90GHz	12,352	\$186.97
Intel Core i5-11500T @ 1.50GHz	12,085	\$192.00*
Intel Core i5-10505 @ 3.20GHz	11,942	NA
Intel Core i5-10600T @ 2.40GHz	11,871	\$213.00*
AMD Ryzen 3 3100	11,694	\$283.32
Intel Core i7-9700E @ 2.60GHz	11,544	\$323.00*
AMD Ryzen 3 4300GE	11,356	NA
AMD Ryzen 3 PRO 4350GE	11,354	NA
AMD Ryzen 3 PRO 4200G	11,315	NA
AMD Ryzen 3 4300G	11,054	NA
Intel Core i5-9600KF @ 3.70GHz	10,840	\$199.96

AMD Ryzen 3 PRO 4350G	10,817	NA
Intel Core i5-10500T @ 2.30GHz	10,738	\$192.00*
 CPU Benchmarks ▼		
Intel Core i7-9700T @ 2.00GHz	10,686	\$323.00*
Intel Core i5-9600 @ 3.10GHz	10,467	\$259.44
Intel Core i5-9500F @ 3.00GHz	10,299	\$183.00
Intel Core i3-10320 @ 3.80GHz	10,157	\$177.99
Intel Core i5-10400T @ 2.00GHz	10,103	\$182.00*
Intel Core i5-9500 @ 3.00GHz	9,760	\$225.39
Intel Core i3-10305 @ 3.80GHz	9,689	\$219.88
AMD Ryzen 5 3350GE	9,684	NA
AMD Ryzen 5 PRO 3350GE	9,643	NA
AMD Ryzen 5 PRO 3350G	9,547	NA
Intel Core i5-9400F @ 2.90GHz	9,544	\$149.99
Intel Core i5-9400 @ 2.90GHz	9,488	\$187.55
AMD Ryzen 5 2500X	9,407	NA
AMD Ryzen 5 PRO 3400G	9,379	NA
AMD Ryzen 5 3400G	9,349	\$249.73
Intel Core i3-10300 @ 3.70GHz	9,344	\$177.00
Intel Core i3-10105F @ 3.70GHz	9,185	\$103.88
Intel Core i7-9850HL @ 1.90GHz	9,112	\$395.00*
AMD Ryzen 5 3350G	9,036	NA
AMD Ryzen 5 3400GE	9,028	NA
Intel Core i3-10105 @ 3.70GHz	8,891	\$139.91
Intel Core i3-10100 @ 3.60GHz	8,883	\$136.00
Intel Core i3-10100F @ 3.60GHz	8,834	\$92.50
Intel Core i5-10300H @ 2.50GHz	8,759	\$250.00*
Intel Core i5-9600T @ 2.30GHz	8,280	\$213.00*
AMD Ryzen Embedded V1756B	8,215	NA
AMD Ryzen 5 PRO 3400GE	8,208	NA
Intel Core i5-9500T @ 2.20GHz	8,207	\$192.00*
Intel Core i3-10305T @ 3.00GHz	8,136	\$143.00*
Intel Core i3-10105T @ 3.00GHz	7,914	\$122.00*
Intel Core i3-10300T @ 3.00GHz	7,780	\$143.00*
Intel Core i3-9350K @ 4.00GHz	7,760	\$293.22*
Intel Core i5-9400T @ 1.80GHz	7,721	\$182.00*
AMD Athlon Gold PRO 3150G	7,702	NA
Intel Core i3-9350KF @ 4.00GHz	7,520	\$219.99
AMD Ryzen 3 2300X	7,462	\$178.09*
AMD Ryzen 3 3200GE	7,408	NA
Intel Core i3-9320 @ 3.70GHz	7,358	\$219.88
Intel Core i3-9300 @ 3.70GHz	7,279	\$173.00
AMD Ryzen 3 3200G	7,214	\$274.99
AMD Athlon Gold PRO 3150GE	7,212	NA

AMD Ryzen 3 PRO 3200G	7,054	NA
Intel Core i3-9100F @ 3.60GHz	6,768	\$143.95
 CPU Benchmarks ▼		
Intel Core i3-9300T @ 3.20GHz	6,071	\$143.00*
Intel Core i3-9100T @ 3.10GHz	5,660	\$122.00*
AMD Ryzen Embedded V1404I	5,491	NA
Intel Core i5-4470S @ 3.00GHz	4,742	NA
AMD Athlon Silver PRO 3125GE	4,633	NA
AMD Athlon 300GE	4,609	NA
AMD Athlon 240GE	4,538	\$138.00*
Intel Pentium Gold G6605 @ 4.30GHz	4,536	\$167.60*
AMD Athlon PRO 300GE	4,528	NA
AMD Athlon 3000G	4,463	\$54.99*
Intel Pentium Gold G6600 @ 4.20GHz	4,396	\$149.88
Intel Pentium Gold G6505 @ 4.20GHz	4,378	\$75.00*
AMD Athlon 320GE	4,370	NA
Intel Pentium Gold G6405 @ 4.10GHz	4,290	\$115.99
AMD Ryzen 3 PRO 2100GE	4,286	NA
AMD Ryzen Embedded R1606G	4,248	NA
Intel Pentium Gold G6500 @ 4.10GHz	4,191	\$151.52*
Intel Pentium Gold G5600F @ 3.90GHz	4,160	\$350.00*
Intel Pentium Gold G6400 @ 4.00GHz	4,133	\$119.88
Intel Pentium Gold G5620 @ 4.00GHz	4,102	\$159.99*
Intel Pentium Gold G6500T @ 3.50GHz	4,005	\$75.00*
Intel Pentium Gold G6405T @ 3.50GHz	3,746	\$64.00*
Intel Pentium Gold G5420T @ 3.20GHz	3,716	\$64.00*
Intel Pentium Silver J5040 @ 2.00GHz	3,611	NA
Intel Pentium Gold G6400T @ 3.40GHz	3,610	\$64.00*
Intel Pentium Gold G5420 @ 3.80GHz	3,530	\$200.29
Intel Celeron J4125 @ 2.00GHz	3,042	NA
Intel Celeron G5925 @ 3.60GHz	2,873	\$66.45
Intel Celeron G5905 @ 3.50GHz	2,842	\$80.95
Intel Celeron G5920 @ 3.50GHz	2,807	\$76.99
Intel Celeron G5900 @ 3.40GHz	2,765	\$99.01
Intel Celeron J4115 @ 1.80GHz	2,723	NA
Intel Celeron G4950 @ 3.30GHz	2,714	\$9,999.00*
Intel Celeron G5900T @ 3.20GHz	2,648	\$42.00*
Intel Celeron G4930 @ 3.20GHz	2,575	\$158.98
AMD Athlon II X4 557	2,567	NA
Intel Celeron G5905T @ 3.30GHz	2,427	\$42.00*
Intel Celeron J3455E @ 1.50GHz	2,256	NA
Intel Celeron G3930TE @ 2.70GHz	2,218	\$42.00*
Intel Celeron G4930T @ 3.00GHz	2,209	\$42.00*
Intel Celeron G3930T @ 2.70GHz	2,109	\$99.35

Intel Core2 Extreme Q9200 @ 2.40GHz	2,011	NA
AMD A6-7480	1,936	\$43.99*
 CPU Benchmarks ▼		
Intel Celeron J4025 @ 2.00GHz	1,693	NA
Intel Pentium G2120T @ 2.70GHz	1,613	NA
AMD R-272F APU	1,215	NA
AMD E2-9030	922	NA

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