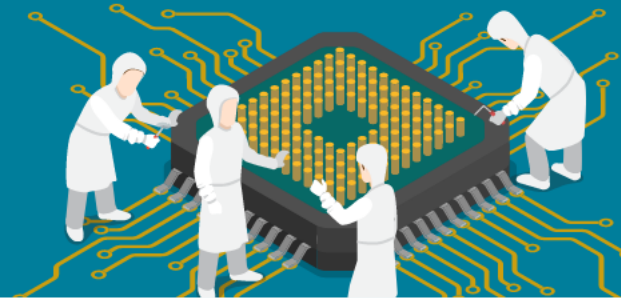


CPU Benchmarks

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.

CPUS

High End

High Mid Range

Low Mid Range

Low End

Best Value (On Market)

Best Value XY
Scatter

Best Value
(All time)

New Desktop

CPU Mark

Price Performance

Sorted by Date

PassMark - CPU Mark

Desktop CPU Performance

Updated 29th of September 2020

CPU	CPU Mark	Price (USD)
AMD Ryzen Threadripper PRO 3995WX	88,673	NA
AMD Ryzen Threadripper 3990X	79,930	\$3,599.99
AMD Ryzen Threadripper 3970X	64,253	\$1,949.99
AMD Ryzen Threadripper 3960X	55,517	\$1,349.98
AMD Ryzen Threadripper PRO 3955WX	42,152	NA
AMD Ryzen 9 3950X	39,244	\$709.99
AMD Ryzen Threadripper PRO 3945WX	34,884	NA
Intel Core i9-10980XE @ 3.00GHz	34,264	\$817.50

New Laptop



Single Thread

Systems with
Multiple CPUs

Overclocked

Power

Performance

CPU Mark by
Socket TypeCross-Platform
CPU Performance

CPU Mega List

Search Model



Compare

0



Common

Most

Benchmarked

AMD vs Intel
Market ShareYear on Year
Performance

AMD Ryzen 9 3900XT		33,184	\$467.99
AMD Ryzen 9 3900X		32,855	\$429.99
AMD Ryzen Threadripper 2990WX		32,108	\$1,498.98
Intel Core i9-9990XE @ 4.00GHz		31,941	NA
Intel Xeon W-3175X @ 3.10GHz		31,814	\$3,209.48
AMD Ryzen 9 PRO 3900		31,800	NA
Intel Core i9-9980XE @ 3.00GHz		31,556	\$1,199.00
AMD Ryzen 9 3900		30,946	NA
AMD Ryzen Threadripper 2950X		30,706	\$577.65
Intel Core i9-9960X @ 3.10GHz		30,663	\$929.82
Intel Core i9-10940X @ 3.30GHz		29,673	\$805.00
Intel Core i9-9940X @ 3.30GHz		28,242	\$778.00
AMD Ryzen Threadripper 2970WX		27,736	\$1,156.40
Intel Core i9-7960X @ 2.80GHz		27,264	\$1,600.00*
Intel Core i9-7940X @ 3.10GHz		26,864	\$1,489.95*
Intel Core i9-10920X @ 3.50GHz		26,257	\$684.00
AMD Ryzen Threadripper 2920X		25,795	\$709.99*
Intel Core i9-9920X @ 3.50GHz		25,432	\$699.99*
AMD Ryzen 7 3800XT		24,283	\$383.98
Intel Core i9-10900K @ 3.70GHz		24,207	\$659.99
Intel Core i9-10900KF @ 3.70GHz		23,539	\$599.99
AMD Ryzen 7 3800X		23,341	\$339.99
Intel Core i9-10900X @ 3.70GHz		22,960	\$610.68
Intel Xeon W-2255 @ 3.70GHz		22,841	\$778.00*
AMD Ryzen 7 3700X		22,795	\$294.99
Intel Core i9-10850K @ 3.60GHz		22,455	\$486.85
Intel Core i9-10910 @ 3.60GHz		22,090	NA
AMD Ryzen 7 PRO 3700		21,895	NA
Intel Core i9-9900X @ 3.50GHz		21,679	\$603.21
AMD Ryzen 7 4700G		21,667	NA
Intel Core i9-10900 @ 2.80GHz		21,290	\$469.78
Intel Core i9-10900F @ 2.80GHz		21,228	\$518.19
AMD Ryzen 7 PRO 4750G		21,094	\$289.00*
AMD Ryzen Threadripper 2990X		20,885	NA
AMD Ryzen 7 PRO 4700G		20,848	NA
Intel Core i9-9820X @ 3.30GHz		20,626	\$531.00

AMD Ryzen 7 4700GE		20,527	NA
AMD Ryzen 7 PRO 4750GE		20,163	NA
Intel Core i7-10700KF @ 3.80GHz		19,737	\$479.00
Intel Core i7-10700K @ 3.80GHz		19,640	\$405.95
Intel Core i9-9900KS @ 4.00GHz		19,470	\$649.99*
AMD Ryzen 5 3600XT		19,007	\$233.32
Intel Core i9-9900K @ 3.60GHz		18,872	\$399.98
Intel Core i9-9900KF @ 3.60GHz		18,797	\$389.99
Intel Core i7-9800X @ 3.80GHz		18,337	\$363.27
AMD Ryzen 5 3600X		18,309	\$232.99
AMD Ryzen 5 PRO 3600		17,892	NA
AMD Ryzen 5 3600		17,854	\$204.99
AMD Ryzen 7 2700X		17,579	\$217.79
Intel Core i7-10700 @ 2.90GHz		17,475	\$319.89
AMD Ryzen 5 4600G		17,197	NA
Intel Core i9-9900 @ 3.10GHz		17,181	\$402.75
Intel Core i7-10700F @ 2.90GHz		17,121	\$432.55
Intel Core i9-10900T @ 1.90GHz		16,991	\$439.00*
AMD Ryzen 7 PRO 2700X		16,846	NA
AMD Ryzen 5 PRO 4650G		16,766	NA
AMD Ryzen 5 PRO 4650GE		16,682	NA
AMD Ryzen 5 4600GE		16,377	NA
AMD Ryzen 5 PRO 4400G		15,981	NA
AMD Ryzen 7 2700		15,731	\$333.44
AMD Ryzen 7 PRO 2700		15,223	NA
Intel Core i5-10600KF @ 4.10GHz		14,900	\$237.00*
Intel Core i7-9700KF @ 3.60GHz		14,730	\$379.99
Intel Core i7-8086K @ 4.00GHz		14,717	\$691.76
AMD Ryzen 7 2700E		14,657	NA
Intel Core i7-9700K @ 3.60GHz		14,604	\$299.99
Intel Core i5-10600K @ 4.10GHz		14,576	\$287.99
AMD Ryzen 5 2600X		14,091	\$169.49
Intel Core i5-10600 @ 3.30GHz		14,069	\$264.99
Intel Core i7-8700K @ 3.70GHz		13,892	\$299.99
Intel Core i7-9700F @ 3.00GHz		13,758	\$259.99

AMD Ryzen 5 PRO 2600		13,662	NA
Intel Core i7-9700 @ 3.00GHz		13,613	\$299.94
Intel Core i9-9900T @ 2.10GHz		13,609	\$439.00*
Intel Core i5-10500 @ 3.10GHz		13,402	\$239.95
AMD Ryzen 5 3500X		13,365	NA
Intel Core i7-10700T @ 2.00GHz		13,344	\$323.00*
AMD Ryzen 5 2600		13,219	\$139.99
Intel Core i7-8700 @ 3.20GHz		13,112	\$299.99
AMD Ryzen 3 3300X		12,796	\$261.16
AMD Ryzen 5 3500		12,783	NA
Intel Core i5-10400 @ 2.90GHz		12,712	\$179.98
Intel Core i5-10400F @ 2.90GHz		12,709	\$208.99
AMD Ryzen 3 3100		11,753	\$126.69
AMD Ryzen 3 4300G		11,714	NA
AMD Ryzen 3 PRO 4350GE		11,417	NA
Intel Core i5-10600T @ 2.40GHz		11,330	\$213.00*
AMD Ryzen 3 PRO 4350G		11,315	NA
Intel Core i5-9600KF @ 3.70GHz		10,896	\$279.99
Intel Core i5-9600K @ 3.70GHz		10,896	\$199.99
Intel Core i7-9700T @ 2.00GHz		10,885	\$323.00*
Intel Core i5-10500T @ 2.30GHz		10,802	\$192.00*
Intel Core i7-8700T @ 2.40GHz		10,761	\$349.98
Intel Core i5-9600 @ 3.10GHz		10,741	\$237.98
Intel Core i7-9700TE @ 1.80GHz		10,680	\$323.00*
Intel Core i5-10400T @ 2.00GHz		10,429	\$182.00*
Intel Core i5-9500F @ 3.00GHz		10,342	\$207.63
Intel Core i5-8600K @ 3.60GHz		10,276	\$225.99
Intel Core i5-9500 @ 3.00GHz		9,976	\$198.60
Intel Core i5-8600 @ 3.10GHz		9,766	\$237.95
AMD Ryzen 5 3350GE		9,684	NA
AMD Ryzen 5 2500X		9,671	NA
AMD Ryzen 5 PRO 3350GE		9,643	NA
Intel Core i5-9400 @ 2.90GHz		9,596	\$159.70
Intel Core i5-9400F @ 2.90GHz		9,591	\$139.99
AMD Ryzen 5 PRO 3350G		9,582	NA
AMD Ryzen 5 PRO 3400G		9,549	NA

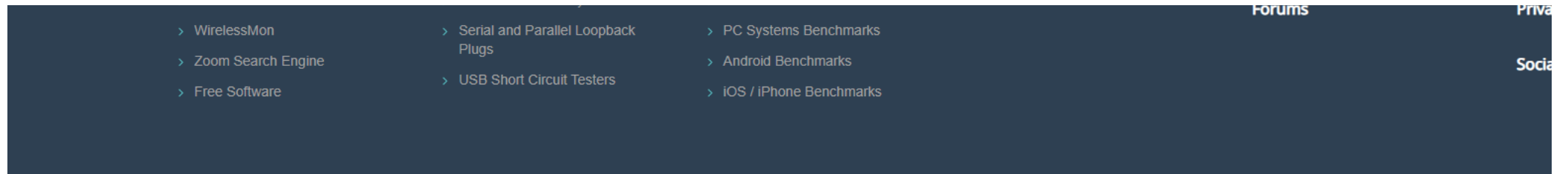
Intel Core i5-8500 @ 3.00GHz		9,483	\$209.95
AMD Ryzen 5 3400G		9,421	\$144.99
Intel Core i5-9600T @ 2.30GHz		9,406	\$213.00*
Intel Core i3-10300 @ 3.70GHz		9,256	\$198.78
Intel Core i5-8400 @ 2.80GHz		9,207	\$192.99
Intel Core i7-9850HL @ 1.90GHz		9,112	\$395.00*
Intel Core i5-10300H @ 2.50GHz		8,908	\$250.00*
Intel Core i3-10100 @ 3.60GHz		8,897	\$119.99
Intel Core i5-8600T @ 2.30GHz		8,846	\$366.99*
AMD Ryzen 5 2400G		8,790	\$260.00
AMD Ryzen 5 3400GE		8,565	NA
AMD Ryzen 5 PRO 2400G		8,446	NA
Intel Core i3-10300T @ 3.00GHz		8,355	\$143.00*
AMD Ryzen 5 PRO 3400GE		8,176	NA
AMD Ryzen Embedded V1756B		8,133	NA
Intel Core i5-9500T @ 2.20GHz		8,121	\$192.00*
Intel Core i3-9350KF @ 4.00GHz		7,913	\$164.99
Intel Core i5-8500T @ 2.10GHz		7,864	\$217.98
AMD Ryzen 3 2300X		7,863	\$178.09*
Intel Core i5-9400T @ 1.80GHz		7,819	\$182.00*
Intel Core i3-9350K @ 4.00GHz		7,759	\$184.00*
AMD Ryzen 5 PRO 2400GE		7,720	NA
AMD Athlon Gold PRO 3150G		7,702	NA
AMD Ryzen 3 3200GE		7,631	NA
AMD Ryzen 5 2400GE		7,619	NA
AMD Athlon Gold PRO 3150GE		7,578	NA
Intel Core i5-8400T @ 1.70GHz		7,433	\$199.98*
Intel Core i3-9320 @ 3.70GHz		7,358	\$162.00*
Intel Core i3-9300 @ 3.70GHz		7,267	\$189.99*
AMD Ryzen 3 3200G		7,247	\$99.99
AMD Ryzen 3 PRO 3200G		7,054	NA
Intel Core i3-8350K @ 4.00GHz		7,009	\$198.75*
Intel Core i3-9100F @ 3.60GHz		6,834	\$77.72
AMD Ryzen 3 2200G		6,739	\$170.99
AMD Ryzen 3 PRO 2200G		6,717	NA
Intel Core i3-9100 @ 3.60GHz		6,685	\$108.99

Intel Core i3-9300T @ 3.20GHz		6,367	\$143.00*
Intel Core i3-8300 @ 3.70GHz		6,317	\$137.15
AMD Ryzen 3 PRO 2200GE		6,284	NA
Intel Core i3-8100 @ 3.60GHz		6,151	\$113.99
AMD Ryzen 3 2200GE		6,011	NA
Intel Core i3-8300T @ 3.20GHz		5,827	\$155.20*
Intel Core i3-9100T @ 3.10GHz		5,623	\$122.00*
AMD Ryzen Embedded V1404I		5,491	NA
Intel Core i5-4670R @ 3.00GHz		5,335	\$276.00*
Intel Core i3-8100T @ 3.10GHz		5,292	\$129.00
AMD Athlon 300GE		4,930	NA
Intel Core i5-4470S @ 3.00GHz		4,742	NA
AMD Athlon Silver PRO 3125GE		4,701	NA
AMD Athlon 240GE		4,630	\$101.07
AMD Ryzen Embedded R1606G		4,495	NA
AMD Athlon 3000G		4,468	\$54.99*
AMD Athlon PRO 300GE		4,337	NA
AMD Ryzen 3 PRO 2100GE		4,308	NA
Intel Pentium Gold G6400 @ 4.00GHz		4,265	\$64.99
AMD Athlon 200GE		4,212	\$77.86*
Intel Pentium Gold G5600F @ 3.90GHz		4,161	NA
AMD Athlon PRO 200GE		4,139	NA
Intel Pentium Gold G5620 @ 4.00GHz		4,102	\$197.12*
Intel Core i3-7101TE @ 3.40GHz		4,003	\$117.00*
Intel Pentium Gold G5420T @ 3.20GHz		3,716	\$64.00*
Intel Pentium Gold G5400 @ 3.70GHz		3,711	\$69.99
Intel Pentium Silver J5040 @ 2.00GHz		3,690	NA
Intel Pentium Gold G5600 @ 3.90GHz		3,641	\$144.04
Intel Pentium Gold G5500 @ 3.80GHz		3,635	\$149.35
AMD Phenom II X6 1405T		3,335	NA
Intel Celeron J4125 @ 2.00GHz		3,317	NA
Intel Pentium Gold G5420 @ 3.80GHz		3,294	\$66.84
Intel Pentium Gold G5500T @ 3.20GHz		3,234	\$75.00*
Intel Pentium Silver J5005 @ 1.50GHz		3,210	\$203.27
Intel Core i3-4370T @ 3.30GHz		3,187	\$138.00*
AMD A10-9700E		3,151	\$241.00

Intel Celeron J4105 @ 1.50GHz		2,996	\$107.00*
AMD Athlon X4 830		2,901	NA
Intel Celeron J4115 @ 1.80GHz		2,823	NA
Intel Celeron G5900 @ 3.40GHz		2,737	\$52.74
Intel Celeron G4930 @ 3.20GHz		2,557	\$40.98
Intel Celeron J3455E @ 1.50GHz		2,457	NA
Intel Celeron G4900 @ 3.10GHz		2,413	\$56.39
Intel Celeron G4920 @ 3.20GHz		2,284	\$61.46
Intel Celeron G4900T @ 2.90GHz		2,255	\$42.00*
Intel Celeron G4930T @ 3.00GHz		2,224	\$42.00*
Intel Celeron G3930TE @ 2.70GHz		2,218	\$42.00*
Intel Celeron G3930T @ 2.70GHz		2,109	\$39.95*
Intel Core2 Extreme Q9200 @ 2.40GHz		2,011	NA
Intel Celeron 4305UE @ 2.00GHz		1,950	NA
Intel Celeron J4025 @ 2.00GHz		1,946	NA
AMD A6-9500E		1,841	\$96.70
AMD A6-7480		1,797	\$43.99*
Intel Celeron J4005 @ 2.00GHz		1,674	\$141.20
AMD A9-9430		1,668	NA
Intel Pentium G2120T @ 2.70GHz		1,613	NA
AMD Sempron 240		1,278	\$38.00
AMD R-272F APU		1,215	NA
AMD E2-9030		922	NA
Intel Pentium 4 3.83GHz		154	NA

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