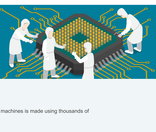
CPU Benchmarks

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 (Cin Market)
- Best Value X/Y Scatter
- Best Value (All time)
- New Desktop
- New Laptop
- Single Thread
- Systems with Multiple CPUs
- Overclocked
- Power Performance
- CPU Mark by Socket Type
- Cross-Platform CPU Performance

CPU Mega List
- Search Model

Compare 0

Common
- Most Benchmarked

AMD vs Intel Market Share
- Year on Year Performance

CPU Mark | Price Performance | Sorted by Date

PassMark - CPU Mark

Desktop CPU Performance

Updated 31st of December 2020

CPU	CPU Mark	Price (USD)
AMD Ryzen Threadripper PRO 3995WX	88,731	NA
AMD Ryzen Threadripper 3990X	80,633	$5,599.00
AMD Ryzen Threadripper 3970X	64,233	$2,578.00
AMD Ryzen Threadripper PRO 3975WX	63,616	NA
AMD Ryzen Threadripper 3960X	55,527	$1,349.99
AMD Ryzen 9 5950X	46,034	$799.99
AMD Ryzen Threadripper PRO 3955WX	41,287	NA
AMD Ryzen 9 5900X	39,616	$549.99
AMD Ryzen 9 3950X	39,272	$719.99
AMD Ryzen Threadripper PRO 3945WX	34,740	NA
Intel Core i9-10980XE @ 3.00GHz	34,251	$984.99
AMD Ryzen 9 3900XT	33,028	$519.99
AMD Ryzen 9 3900X	32,869	$549.79
Intel Core i9-9980XE @ 3.00GHz	32,130	$1,054.00
Intel Core i9-9900XE @ 4.00GHz	31,941	NA
Intel Xeon W-3175X @ 3.10GHz	31,514	$3,114.87
AMD Ryzen 5 PRO 3600	31,080	NA
AMD Ryzen Threadripper 2990WX	31,000	$2,005.84
Intel Core i9-9960X @ 3.10GHz	31,025	$1,099.99
AMD Ryzen 9 3900	30,863	NA
AMD Ryzen Threadripper 2950X	30,810	$750.13
Intel Core i9-10940X @ 3.30GHz	29,332	$789.99
AMD Ryzen 7 5800X	28,762	$449.00
AMD Ryzen Threadripper 2970WX	28,637	$1,255.66
Intel Xeon W-2275 @ 3.20GHz	28,457	$1,112.00*
Intel Core i9-9940X @ 3.30GHz	28,274	$758.17
AMD Ryzen Threadripper 2990X	26,489	NA
Intel Core i9-10920X @ 3.50GHz	26,381	$655.00
AMD Ryzen Threadripper 2920X	25,599	$1,499.99
Intel Core i9-9920X @ 3.50GHz	25,216	$500.00*
Intel Core i9-10900K @ 3.70GHz	24,101	$514.89
AMD Ryzen 7 3800XT	23,966	$373.01
Intel Core i9-10900KF @ 3.70GHz	23,936	$569.99
AMD Ryzen 7 3800X	23,377	$368.99
Intel Core i9-10850K @ 3.60GHz	23,319	$399.99
AMD Ryzen 7 3700X	22,819	$324.99
Intel Core i9-10900X @ 3.70GHz	22,691	$559.99
Intel Xeon W-2255 @ 3.70GHz	22,676	$778.00*
Intel Core i9-10910 @ 3.60GHz	22,340	NA
AMD Ryzen 5 5600X	22,199	$299.00*
AMD Ryzen 7 PRO 3700	21,889	$279.99*
Intel Core i9-9900X @ 3.50GHz	21,793	$577.57*
Intel Core i9-10900 @ 2.80GHz	21,214	$489.78
Intel Core i9-10900F @ 2.80GHz	21,135	$419.99
AMD Ryzen 7 PRO 4750G	21,066	$289.00*
AMD Ryzen 7 PRO 4750G	20,840	NA
AMD Ryzen 7 4700GE	20,671	NA
Intel Core i9-9820X @ 3.30GHz	20,544	$558.95
AMD Ryzen 7 PRO 4750GE	20,377	NA
AMD Ryzen 7 4700G	20,130	NA
Intel Core i7-10700K @ 3.80GHz	19,626	$359.99
Intel Core i7-10700KF @ 3.80GHz	19,579	$374.50
Intel Core i9-9900KS @ 4.00GHz	19,530	$1,365.00*
Intel Core i9-9900KF @ 3.60GHz	18,912	$329.99
AMD Ryzen 5 3600XT	18,882	$333.99
Intel Core i9-9900K @ 3.60GHz	18,866	$359.99
AMD Ryzen 5 3600X	18,324	$319.62
Intel Core i7-8700K @ 3.80GHz	18,293	$549.99
AMD Ryzen 5 PRO 3600	18,037	NA
AMD Ryzen 5 3600	17,861	$199.99
AMD Ryzen 7 2700X	17,611	$289.85
Intel Core i7-10700 @ 2.90GHz	17,529	$345.33
AMD Ryzen 5 4600G	17,197	NA
Intel Core i9-9900 @ 3.10GHz	17,139	$379.99
Intel Core i7-10700F @ 2.90GHz	17,070	$319.99
AMD Ryzen 7 PRO 2700X	16,846	NA
Intel Core i9-10900T @ 1.90GHz	16,663	$439.00*
AMD Ryzen 5 PRO 4650G	16,639	$269.99
AMD Ryzen 5 PRO 4650GE	16,671	NA
AMD Ryzen 5 PRO 4400G	16,456	NA
AMD Ryzen 5 4600GE	16,377	NA
AMD Ryzen 7 2700	15,664	$566.99
AMD Ryzen 7 PRO 2700	15,049	NA
Intel Core i5-10600KF @ 4.10GHz	14,890	$251.89
Intel Core i7-8700KF @ 3.60GHz	14,672	$308.99
AMD Ryzen 7 2700E	14,687	NA
Intel Core i5-10600K @ 4.10GHz	14,657	$264.99
Intel Core i7-8086K @ 4.00GHz	14,645	$691.76
Intel Core i7-8700K @ 3.60GHz	14,586	$359.00
AMD Ryzen 5 2600X	14,075	$189.44
Intel Core i5-10600 @ 3.30GHz	14,011	$269.99
Intel Core i9-9900T @ 2.10GHz	13,844	$439.00*
Intel Core i7-8700T @ 3.00GHz	13,808	$260.44
AMD Ryzen 5 PRO 2600	13,662	NA
Intel Core i7-9700 @ 3.00GHz	13,563	$254.99
AMD Ryzen 5 3600X	13,412	$299.99
Intel Core i5-10500 @ 3.10GHz	13,338	$217.99
AMD Ryzen 5 2600	13,269	$139.99
AMD Ryzen 5 3600	12,918	NA
AMD Ryzen 3 3300X	12,761	$199.99*
Intel Core i7-9700E @ 2.60GHz	12,754	$323.00*
Intel Core i7-10700T @ 2.00GHz	12,660	$323.00*
Intel Core i5-10400F @ 2.90GHz	12,072	$162.98
Intel Core i5-10400 @ 2.90GHz	12,493	$179.99
Intel Core i5-10600T @ 2.40GHz	12,117	$213.00*
AMD Ryzen 3 4300GE	11,878	NA
AMD Ryzen 3 3100	11,741	$209.99
AMD Ryzen 3 4300G	11,582	NA
AMD Ryzen 3 PRO 4350GE	11,443	NA
AMD Ryzen 3 PRO 4350G	11,248	NA
Intel Core i9-9900KF @ 3.70GHz	10,910	$199.99
Intel Core i7-8700T @ 2.00GHz	10,885	$323.00*
Intel Core i7-8700T @ 2.40GHz	10,869	$319.95
Intel Core i5-9600K @ 3.70GHz	10,864	$195.99
Intel Core i5-10500T @ 2.30GHz	10,625	$192.00*
Intel Core i7-9700TE @ 1.80GHz	10,680	$323.00*
Intel Core i5-9600 @ 3.10GHz	10,589	$233.42
Intel Core i5-10400T @ 2.00GHz	10,378	$192.00*
Intel Core i5-9500F @ 3.00GHz	10,284	$205.31
Intel Core i3-10320 @ 3.80GHz	10,093	$172.56
Intel Core i5-9500 @ 3.00GHz	9,914	$189.29
Intel Core i5-8600 @ 3.10GHz	9,802	$242.73
AMD Ryzen 5 3350GE	9,684	NA
AMD Ryzen 5 PRO 3350GE	9,643	NA
Intel Core i5-9400F @ 2.90GHz	9,589	$146.75
AMD Ryzen 5 PRO 3350G	9,582	NA
Intel Core i5-9400 @ 2.90GHz	9,551	$159.99
Intel Core i5-8500 @ 3.00GHz	9,506	$299.99
AMD Ryzen 5 2500X	9,489	NA
AMD Ryzen 5 PRO 3400G	9,489	NA
Intel Core i5-9600T @ 2.30GHz	9,468	$213.00*
AMD Ryzen 5 3400G	9,369	$227.99
Intel Core i3-10300 @ 3.70GHz	9,322	$163.68
Intel Core i7-8650U @ 1.90GHz	9,112	$395.00*
Intel Core i3-10100 @ 3.60GHz	8,940	$114.25
Intel Core i3-10100F @ 3.60GHz	8,895	$108.99
Intel Core i5-8600T @ 2.30GHz	8,890	$199.99*
Intel Core i5-10500H @ 2.50GHz	8,839	$250.00*
AMD Ryzen 5 3400GE	8,825	NA
AMD Ryzen 5 2400G	8,740	$322.50
AMD Ryzen 5 PRO 2400G	8,457	NA
AMD Ryzen Embedded V1756B	8,259	NA
Intel Core i5-9500T @ 2.20GHz	8,191	$192.00*
AMD Ryzen 5 PRO 3400GE	8,163	NA
Intel Core i3-10300T @ 3.00GHz	7,923	$143.00*
Intel Core i5-8500T @ 2.10GHz	7,897	$217.35*
Intel Core i3-8350K @ 4.00GHz	7,797	$168.00*
Intel Core i5-8400T @ 1.80GHz	7,752	$182.00*
AMD Ryzen 3 2200X	7,764	$178.09*
AMD Athlon Gold PRO 3150G	7,702	NA
AMD Ryzen 5 2400GE	7,619	NA
AMD Ryzen 5 PRO 2400GE	7,683	NA
AMD Athlon Gold PRO 3150GE	7,576	NA
AMD Ryzen 3 3200GE	7,493	NA
Intel Core i3-8350KF @ 4.00GHz	7,399	$164.99
Intel Core i5-8400T @ 1.70GHz	7,374	$229.98
Intel Core i3-9320 @ 3.70GHz	7,358	$162.99*
Intel Core i3-9300 @ 3.70GHz	7,267	$185.25
AMD Ryzen 3 3200G	7,238	$97.65
AMD Ryzen 3 PRO 3200G	7,056	NA
Intel Core i3-9100F @ 3.60GHz	6,802	$135.69
AMD Ryzen 3 2200G	6,740	$260.98
Intel Core i3-9100 @ 3.60GHz	6,712	$155.90
AMD Ryzen 3 PRO 2200G	6,662	NA
Intel Core i3-8300T @ 3.20GHz	6,367	$143.00*
Intel Core i3-8300 @ 3.70GHz	6,317	$167.33
AMD Ryzen 3 2200GE	6,292	NA
AMD Ryzen 3 PRO 2200GE	6,150	NA
Intel Core i3-8300T @ 3.20GHz	5,827	$158.95
Intel Core i3-9100T @ 3.10GHz	5,610	$122.00*
AMD Ryzen Embedded V1404I	5,491	NA
Intel Core i5-4670K @ 3.00GHz	5,335	$276.00*
Intel Core i3-8100T @ 3.10GHz	5,325	$141.71
AMD Athlon 300GE	4,905	NA
Intel Core i5-4470S @ 3.00GHz	4,742	NA
AMD Athlon Silver PRO 3125GE	4,701	NA
AMD Athlon 240GE	4,628	$136.54
AMD Ryzen Embedded R1606G	4,544	NA
AMD Athlon 3000G	4,473	$54.99*
AMD Athlon PRO 300GE	4,337	NA
AMD Ryzen 3 PRO 2100GE	4,300	NA
Intel Pentium Gold G6500 @ 4.10GHz	4,216	$75.00*
AMD Athlon 200GE	4,163	$77.86*
Intel Pentium Gold G5600F @ 3.90GHz	4,160	NA
Intel Pentium Gold G6400 @ 4.00GHz	4,145	$64.99*
AMD Athlon PRO 200GE	4,139	NA
Intel Pentium Gold G5620 @ 4.00GHz	4,102	$187.12*
Intel Pentium Silver J5040 @ 2.00GHz	3,724	NA
Intel Pentium Gold G5400 @ 3.70GHz	3,721	$69.99
Intel Pentium Gold G5420T @ 3.20GHz	3,716	$64.00*
Intel Pentium Gold G5600 @ 3.90GHz	3,709	$144.04*
Intel Pentium Gold G5500 @ 3.80GHz	3,680	$93.03
Intel Pentium Gold G5420 @ 3.80GHz	3,363	$69.51
AMD Phenom II X6 1405T	3,339	NA
Intel Pentium Gold G5500T @ 3.20GHz	3,234	$75.00*
Intel Celeron J4125 @ 2.00GHz	3,160	NA
Intel Celeron J4105 @ 1.50GHz	2,989	$107.00*
AMD Athlon X4 830	2,961	NA
Intel Celeron G5905 @ 3.50GHz	2,845	$45.27
Intel Celeron G5920 @ 3.50GHz	2,846	$91.99
Intel Celeron G5900 @ 3.40GHz	2,789	$54.99
Intel Celeron J4115 @ 1.80GHz	2,728	NA
Intel Celeron G4930 @ 3.20GHz	2,571	$47.38
Intel Celeron J3455E @ 1.50GHz	2,457	NA
Intel Celeron G4900 @ 3.10GHz	2,420	$246.34*
Intel Celeron G4900T @ 2.90GHz	2,292	$42.00*
Intel Celeron G4920 @ 3.20GHz	2,254	$80.38
Intel Celeron G4930T @ 3.00GHz	2,224	$42.00*
Intel Celeron G3930TE @ 2.70GHz	2,215	$42.00*
Intel Celeron G3930T @ 2.70GHz	2,169	$39.90*
Intel Core2 Extreme QX9200 @ 2.40GHz	2,011	NA
Intel Celeron 4305UE @ 2.00GHz	1,950	NA
Intel Celeron J4025 @ 2.00GHz	1,946	NA
AMD A6-7480	1,868	$43.99*
AMD A6-9500E	1,841	$164.00
Intel Celeron J4005 @ 2.00GHz	1,615	$129.37
Intel Pentium G2120T @ 2.70GHz	1,613	NA
AMD Sempron 240	1,270	$30.40
AMD R-272F APU	1,210	NA
AMD E2-9010	922	NA
Intel Pentium 4 3.82GHz	154	NA

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