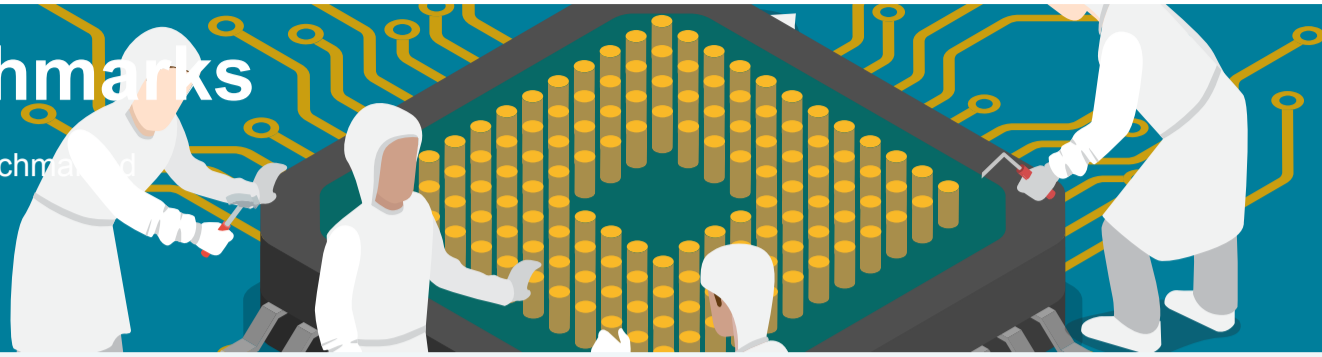


CPU Benchmarks

Over 1,000,000 CPUs Benchmarked

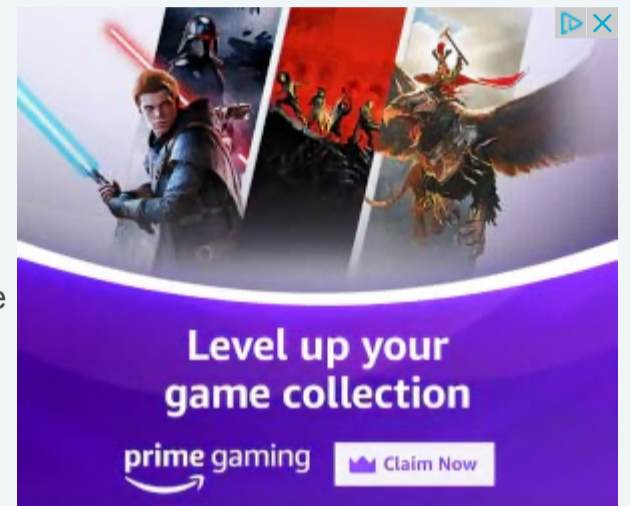


New Desktop CPU Performance

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

- 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

CPU Mark | Price Performance | Sorted by Date

PassMark - CPU Mark

Desktop CPU Performance
Updated 25th of January 2022

CPU	CPU Mark	Price (USD)
AMD Ryzen Threadripper PRO 3995WX	85,073	\$6,564.99
AMD Ryzen Threadripper 3990X	81,091	\$5,154.00*
AMD Ryzen Threadripper 3970X	63,977	\$2,884.93
AMD Ryzen Threadripper PRO 3975WX	62,750	\$3,348.21
AMD Ryzen Threadripper 3960X	54,700	\$1,799.96
AMD Ryzen 9 5950X	46,167	\$714.00
Intel Core i9-12900KF	40,420	\$570.00
AMD Ryzen Threadripper PRO 3955WX	40,183	\$1,116.99
Intel Core i9-12900K	40,003	\$617.98
Intel Xeon W-3265M @ 2.70GHz	39,765	\$6,353.00*
AMD Ryzen 9 5900X	39,498	\$531.21
AMD Ryzen 9 3950X	39,168	\$899.98
Intel Xeon W-3175X @ 3.10GHz	37,167	\$3,107.99
AMD Ryzen 9 5900	35,271	NA
Intel Core i9-10980XE @ 3.00GHz	33,622	\$999.99
AMD Ryzen Threadripper PRO 3945WX	33,458	NA
Intel Core i7-12700KF	33,036	\$389.98
Intel Core i7-12700K	32,891	\$409.00*
AMD Ryzen 9 3900XT	32,883	\$727.57
AMD Ryzen 9 3900X	32,787	\$540.00
Intel Core i7-12700	32,105	\$339.00*

CPU Benchmarks

Benchmarked

AMD vs Intel Market Share

Year on Year Performance

Intel Core i7-12700F		31,651	\$329.88*
AMD Ryzen 9 PRO 3900		31,484	NA
Intel Core i9-9990XE @ 4.00GHz		30,162	\$2,163.00*
Intel Core i9-10940X @ 3.30GHz		28,634	\$799.98
AMD Ryzen 7 5800X		28,443	\$359.00
Intel Xeon W-2275 @ 3.30GHz		27,933	\$1,112.00*
Intel Core i5-12600KF		26,938	\$286.16
Intel Core i5-12600K		26,726	\$295.97
Intel Core i9-10920X @ 3.50GHz		26,691	\$699.99
Intel Core i9-12900F		25,884	\$847.00
Intel Xeon W-3323 @ 3.50GHz		25,875	\$949.00*
Intel Xeon W-1390P @ 3.50GHz		25,810	NA
AMD Ryzen 7 5800		25,699	NA
Intel Core i9-11900KF @ 3.50GHz		25,669	\$499.99
Intel Core i9-11900K @ 3.50GHz		25,643	\$519.98
AMD Ryzen 7 PRO 5750G		25,215	NA
Intel Xeon W-1370P @ 3.60GHz		25,202	\$459.99
Intel Core i7-11700K @ 3.60GHz		25,003	\$349.86
AMD Ryzen 7 5700G		24,645	\$319.00
Intel Xeon W-1370 @ 2.90GHz		24,511	\$442.99
Intel Core i7-11700KF @ 3.60GHz		24,325	\$319.98
Intel Core i9-11900F @ 2.50GHz		24,232	\$409.99
Intel Core i9-11900KB @ 3.30GHz		24,103	\$539.00*
Intel Core i9-10900K @ 3.70GHz		23,901	\$443.89
AMD Ryzen 7 3800XT		23,857	\$382.99
Intel Core i9-10900KF @ 3.70GHz		23,750	\$434.99
Apple M1 Pro 10 Core 3200 MHz		23,553	NA
Apple M1 Max 10 Core 3200 MHz		23,468	NA
Intel Core i9-11900 @ 2.50GHz		23,459	\$448.99
AMD Ryzen 7 3800X		23,300	\$334.99
Intel Core i9-10850K @ 3.60GHz		23,242	\$493.25
Intel Core i7-11700B @ 3.20GHz		22,922	NA
Intel Core i9-10900X @ 3.70GHz		22,793	\$550.00
AMD Ryzen 7 3700X		22,756	\$349.95
AMD Ryzen 7 PRO 3700		22,687	\$329.99*
AMD Ryzen 7 5700GE		22,566	NA
AMD Ryzen 7 PRO 5750GE		22,513	NA
Intel Xeon W-2255 @ 3.70GHz		22,286	\$778.00*
AMD Ryzen 5 5600X		22,148	\$269.00
AMD Ryzen Threadripper 1920		22,066	NA
Intel Core i5-12600		21,925	\$469.12
Intel Core i9-11900T @ 1.50GHz		21,759	\$439.00*
Intel Core i7-11700F @ 2.50GHz		21,549	\$306.31
Intel Core i9-10910 @ 3.60GHz		21,492	NA
Intel Core i5-12500		21,094	\$202.00*
Intel Core i9-10900F @ 2.80GHz		21,018	\$435.11
Intel Core i7-11700 @ 2.50GHz		20,928	\$329.99
AMD Ryzen 5 PRO 5650G		20,886	NA

AMD Ryzen 7 PRO 4700G		20,848	NA
Intel Core i9-10900E @ 2.80GHz		20,658	\$444.00*

 CPU Benchmarks ▼

AMD Ryzen 7 PRO 4750G		20,568	\$599.00
Intel Core i5-12400F		20,366	\$203.35
AMD Ryzen 7 4700G		20,006	\$319.00*
Intel Core i5-11600KF @ 3.90GHz		19,956	\$248.98
Intel Core i5-11600K @ 3.90GHz		19,947	\$249.96
AMD Ryzen 5 5600G		19,886	\$269.00
Intel Core i9-9900KS @ 4.00GHz		19,614	\$580.60
Intel Core i5-12400		19,447	\$192.00*
Intel Core i7-10700K @ 3.80GHz		19,369	\$338.42
Intel Core i7-10700KF @ 3.80GHz		19,188	\$339.99
AMD Ryzen 5 PRO 5650GE		18,983	NA
AMD Ryzen 5 5600GE		18,879	NA
AMD Ryzen 5 3600XT		18,801	\$369.99
AMD Ryzen 7 PRO 4750GE		18,781	NA
Intel Core i9-9900KF @ 3.60GHz		18,738	\$519.98
Intel Core i5-11600 @ 2.80GHz		18,462	\$266.70
AMD Ryzen 5 3600X		18,296	\$272.86
AMD 4700S		18,260	NA
Apple M1 Pro 8 Core 3200 MHz		18,190	NA
AMD Ryzen 5 PRO 3600		18,073	NA
AMD Ryzen 5 3600		17,835	\$219.99
Intel Core i5-11500B @ 3.30GHz		17,783	NA
Intel Core i5-11500 @ 2.70GHz		17,755	\$259.99
Intel Core i5-11400F @ 2.60GHz		17,458	\$175.85
Intel Core i7-10700 @ 2.90GHz		17,124	\$379.99
Intel Core i5-11400 @ 2.60GHz		17,121	\$182.22
Intel Core i7-10700F @ 2.90GHz		17,043	\$268.99
Intel Core i9-9900 @ 3.10GHz		17,001	\$519.99
AMD Ryzen 5 PRO 4400G		16,456	NA
AMD Ryzen 5 PRO 4650G		16,445	\$257.36*
AMD Ryzen 5 4600GE		16,377	NA
Intel Core i9-10900T @ 1.90GHz		15,697	\$439.00*
AMD Ryzen 5 PRO 4650GE		15,652	NA
AMD Ryzen 5 4600G		15,627	NA
Intel Core i5-11600T @ 1.70GHz		15,254	\$213.00*
Intel Core i7-11700T @ 1.40GHz		15,160	\$323.00*
Apple M1 8 Core 3200 MHz		15,109	NA
Intel Xeon W-1250P @ 4.10GHz		14,924	\$374.40*
AMD Ryzen 7 2700E		14,657	NA
Intel Core i5-10600KF @ 4.10GHz		14,570	\$210.00
Intel Core i7-9700KF @ 3.60GHz		14,560	\$508.31
Intel Core i5-10600K @ 4.10GHz		14,553	\$333.99
AMD Ryzen 3 PRO 5350G		14,025	NA
Intel Core i5-11500T @ 1.50GHz		14,024	\$192.00*
Intel Core i5-10600 @ 3.30GHz		14,020	\$252.73
Intel Core i9-9900T @ 2.10GHz		13,896	\$439.00*

AMD Ryzen 3 5300GE		13,843	NA
Intel Core i3-12100		13,814	\$122.00*

🏠 CPU Benchmarks ▼



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Intel Core i7-9700 @ 3.00GHz		13,387	\$290.00
Intel Core i5-11400T @ 1.30GHz		13,367	\$182.00*
AMD Ryzen 5 3500X		13,351	\$219.99
Intel Core i7-10700T @ 2.00GHz		13,305	\$362.35
AMD Ryzen 3 5300G		13,146	NA
Intel Core i5-10500 @ 3.10GHz		13,136	\$225.70
AMD Ryzen 5 3500		12,844	NA
AMD Ryzen 3 3300X		12,768	\$211.99
Intel Core i5-10505 @ 3.20GHz		12,439	NA
Intel Core i5-10400F @ 2.90GHz		12,435	\$150.00
Intel Core i5-10400 @ 2.90GHz		12,337	\$153.21
Intel Core i7-9700E @ 2.60GHz		12,121	\$323.00*
AMD Ryzen 3 3100		11,679	\$177.95
AMD Ryzen 3 4300GE		11,437	NA
Intel Core i5-10600T @ 2.40GHz		11,430	\$213.00*
Intel Core i3-11100B @ 3.60GHz		11,357	NA
AMD Ryzen 3 PRO 4350GE		11,354	NA
AMD Ryzen 3 PRO 4200G		11,315	NA
AMD Ryzen 3 4300G		10,879	NA
Intel Core i5-9600KF @ 3.70GHz		10,837	\$159.00
Intel Core i7-9700TE @ 1.80GHz		10,826	\$323.00*
AMD Ryzen 3 PRO 4350G		10,820	NA
Intel Core i5-10500T @ 2.30GHz		10,749	\$192.00*
Intel Core i7-9700T @ 2.00GHz		10,677	\$323.00*
Intel Core i5-9600 @ 3.10GHz		10,467	\$381.87
Intel Core i3-10325 @ 3.90GHz		10,429	\$154.00*
Intel Core i5-9500F @ 3.00GHz		10,320	\$184.99
Intel Core i3-10320 @ 3.80GHz		10,130	\$142.00
Intel Core i5-10400T @ 2.00GHz		10,110	\$182.00*
Intel Core i5-9500 @ 3.00GHz		9,791	\$199.99
Intel Core i3-10305 @ 3.80GHz		9,689	\$218.00
AMD Ryzen 5 3350GE		9,684	NA
AMD Ryzen 5 PRO 3350GE		9,643	NA
Intel Core i5-9400F @ 2.90GHz		9,546	\$161.90
AMD Ryzen 5 PRO 3350G		9,515	NA
Intel Core i5-9400 @ 2.90GHz		9,498	\$179.99
AMD Ryzen 5 2500X		9,462	NA
AMD Ryzen 5 PRO 3400G		9,350	NA
AMD Ryzen 5 3400G		9,338	\$269.99
Intel Core i3-10300 @ 3.70GHz		9,329	\$161.00
Intel Core i3-10105F @ 3.70GHz		9,161	\$90.70
Intel Core i7-9850HL @ 1.90GHz		9,112	\$395.00*
AMD Ryzen 5 3350G		9,064	NA
AMD Ryzen 5 3400GE		9,003	NA
Intel Core i3-10105 @ 3.70GHz		8,928	\$119.93
Intel Core i3-10100F @ 3.60GHz		8,880	\$89.91

Intel Core i3-10100 @ 3.60GHz	8,836	\$114.99
Intel Core i5-10300H @ 2.50GHz	8,742	\$250.00*

 CPU Benchmarks

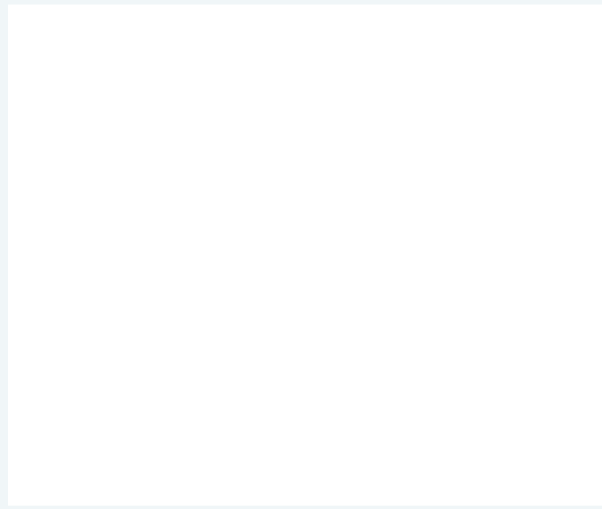
Intel Core i3-10100E @ 3.20GHz	8,229	\$125.00*
AMD Ryzen 5 PRO 3400GE	8,222	NA
AMD Ryzen Embedded V1756B	8,215	NA
Intel Core i3-10305T @ 3.00GHz	8,136	\$143.00*
Intel Core i3-10105T @ 3.00GHz	7,951	\$122.00*
Intel Core i3-10300T @ 3.00GHz	7,780	\$172.85*
Intel Core i3-9350K @ 4.00GHz	7,760	\$293.22*
AMD Athlon Gold PRO 3150G	7,702	NA
Intel Core i5-9400T @ 1.80GHz	7,670	\$182.00*
Intel Core i3-9350KF @ 4.00GHz	7,520	\$184.98
AMD Ryzen 3 2300X	7,519	\$178.09*
AMD Ryzen 3 3200GE	7,408	NA
Intel Core i3-9320 @ 3.70GHz	7,358	\$218.00
Intel Core i3-9300 @ 3.70GHz	7,279	\$208.00
AMD Athlon Gold PRO 3150GE	7,212	NA
AMD Ryzen 3 3200G	7,198	\$285.00
AMD Ryzen 3 PRO 3200G	7,048	NA
Intel Core i3-9100F @ 3.60GHz	6,760	\$137.00
Intel Core i3-9100 @ 3.60GHz	6,621	\$148.70
Intel Core i3-9300T @ 3.20GHz	6,138	\$143.00*
Intel Core i3-9100T @ 3.10GHz	5,548	\$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 240GE	4,547	\$138.00*
AMD Athlon 300GE	4,532	NA
AMD Athlon PRO 300GE	4,528	NA
Intel Pentium Gold G6605 @ 4.30GHz	4,517	\$167.60*
AMD Athlon 3000G	4,475	\$54.99*
Intel Pentium Gold G6600 @ 4.20GHz	4,396	\$136.00
Intel Pentium Gold G6505 @ 4.20GHz	4,378	\$75.00*
Intel Pentium Gold G6405 @ 4.10GHz	4,275	\$113.99
AMD Ryzen Embedded R1606G	4,260	NA
AMD Athlon 320GE	4,237	NA
Intel Celeron N5095 @ 2.00GHz	4,232	NA
AMD Ryzen 3 PRO 2100GE	4,187	NA
Intel Pentium Gold G5600F @ 3.90GHz	4,160	\$120.99
Intel Pentium Gold G6500 @ 4.10GHz	4,147	\$138.56
Intel Pentium Gold G6400 @ 4.00GHz	4,137	\$126.81
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 G5420 @ 3.80GHz	3,616	\$188.00

3.40GHz

Intel Pentium Gold G6400T @ 3.40GHz		3,610	\$64.00*
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Intel Pentium Gold G6400T @ 3.40GHz		3,610	\$64.00*
Intel Pentium Gold G5420T @ 3.20GHz		3,508	\$64.00*
Intel Celeron J4125 @ 2.00GHz		3,023	NA
Intel Celeron G5925 @ 3.60GHz		2,873	\$87.00
Intel Celeron G5905 @ 3.50GHz		2,869	\$74.37
Intel Celeron G5900 @ 3.40GHz		2,762	\$68.99
Intel Celeron J4115 @ 1.80GHz		2,727	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		2,571	\$119.00
AMD Athlon II X4 557		2,567	NA
Intel Celeron G5920 @ 3.50GHz		2,482	\$67.49
Intel Celeron G5905T @ 3.30GHz		2,310	\$42.00*
Intel Celeron G3930TE @ 2.70GHz		2,218	\$42.00*
Intel Celeron G4930T @ 3.00GHz		2,209	\$42.00*
Intel Celeron J3455E @ 1.50GHz		2,125	NA
Intel Core2 Extreme Q9200 @ 2.40GHz		2,011	NA
AMD A6-7480		1,931	\$43.99*
AMD Athlon X4 530		1,786	NA
Intel Celeron J4025 @ 2.00GHz		1,673	NA
Intel Pentium G2120T @ 2.70GHz		1,613	NA
AMD R-272F APU		1,215	NA



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