



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 17th of November 2021


CPU	CPU Mark	Price (USD)
AMD Ryzen Threadripper PRO 3995WX	86,249	\$5,995.00
AMD Ryzen Threadripper 3990X	81,022	\$4,800.00
AMD Ryzen Threadripper 3970X	63,947	\$2,819.67
AMD Ryzen Threadripper PRO 3975WX	62,950	\$2,689.99
AMD Ryzen Threadripper 3960X	54,728	\$1,599.00
AMD Ryzen 9 5950X	46,156	\$745.00
AMD Ryzen Threadripper PRO 3955WX	40,273	\$1,092.99
Intel Xeon W-3265M @ 2.70GHz	39,765	\$6,353.00*

AMD Ryzen 9 5900X	39,525	\$524.00
AMD Ryzen 9 3950X	39,170	\$824.42
 CPU Benchmarks ▼		
Intel Xeon W-3175X @ 3.10GHz	37,167	\$3,107.99
Intel Core i9-12900K	37,095	\$814.95
AMD Ryzen 9 5900	35,329	NA
Intel Core i9-10980XE @ 3.00GHz	33,733	\$1,056.82
AMD Ryzen Threadripper PRO 3945WX	33,714	NA
AMD Ryzen 9 3900XT	32,899	\$668.42
AMD Ryzen 9 3900X	32,802	\$509.99
Intel Core i9-9980XE @ 3.00GHz	32,072	\$1,299.00
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	\$584.00
Intel Core i9-9990XE @ 4.00GHz	30,162	\$2,163.00*
Intel Core i7-12700KF	29,967	\$429.99
Intel Core i7-12700K	29,348	\$409.00*
Intel Core i9-10940X @ 3.30GHz	28,804	\$799.99
Intel Core i9-9940X @ 3.30GHz	28,486	\$1,149.95
AMD Ryzen 7 5800X	28,479	\$384.00
Intel Xeon W-2275 @ 3.30GHz	27,886	\$1,112.00*
Intel Core i9-10920X @ 3.50GHz	26,687	\$679.99
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	25,670	\$549.99
Intel Core i9-11900K @ 3.50GHz	25,636	\$544.89
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	\$388.55
Intel Core i7-11700K @ 3.60GHz	25,145	\$379.99
AMD Ryzen 7 5700G	24,801	\$329.00
Intel Core i5-12600K	24,700	\$316.85
Intel Core i7-11700KF @ 3.60GHz	24,573	\$329.99
Intel Core i9-11900KB @ 3.30GHz	24,537	\$539.00*
Intel Core i9-11900F @ 2.50GHz	24,139	\$429.99
Intel Core i9-10900K @ 3.70GHz	23,982	\$481.00
AMD Ryzen 7 3800XT	23,902	\$304.00
Intel Core i9-10900KF @ 3.70GHz	23,767	\$488.00
Apple M1 Pro 10 Core 3200 MHz	23,683	NA
Intel Core i9-11900 @ 2.50GHz	23,545	\$449.99
Apple M1 Max 10 Core 3200 MHz	23,504	NA

Intel Core i9-10850K @ 3.60GHz	23,334	\$419.99
AMD Ryzen 7 3800X	23,308	\$339.99
 CPU Benchmarks ▼		
AMD Ryzen 7 3700X	22,766	\$326.67
Intel Xeon W-2255 @ 3.70GHz	22,732	\$778.00*
AMD Ryzen 7 PRO 3700	22,580	\$329.99*
AMD Ryzen 7 5700GE	22,566	NA
AMD Ryzen 7 PRO 5750GE	22,553	NA
AMD Ryzen 5 5600X	22,153	\$284.88
AMD Ryzen Threadripper 1920	22,066	NA
Intel Core i9-9900X @ 3.50GHz	21,777	\$749.99
Intel Core i9-11900T @ 1.50GHz	21,759	\$439.00*
Intel Core i7-11700F @ 2.50GHz	21,651	\$319.99
Intel Core i9-10910 @ 3.60GHz	21,469	NA
Intel Core i7-11700 @ 2.50GHz	21,158	\$339.99
AMD Ryzen 5 PRO 5650G	21,087	NA
Intel Core i9-10900F @ 2.80GHz	21,045	\$489.88
AMD Ryzen 7 PRO 4700G	20,848	NA
Intel Core i9-10900 @ 2.80GHz	20,715	\$399.99
Intel Core i9-10900E @ 2.80GHz	20,658	\$444.00*
AMD Ryzen 7 4700GE	20,648	NA
AMD Ryzen 7 PRO 4750G	20,581	\$477.39
AMD Ryzen 7 4700G	20,041	\$339.00
Intel Core i5-11600KF @ 3.90GHz	20,017	\$249.99
AMD Ryzen 5 5600G	19,970	\$239.00
Intel Core i5-11600K @ 3.90GHz	19,968	\$259.99
Intel Core i9-9820X @ 3.30GHz	19,853	\$699.95
Intel Core i9-9900KS @ 4.00GHz	19,590	\$537.29
Intel Core i7-10700K @ 3.80GHz	19,435	\$318.99
AMD Ryzen 7 PRO 4750GE	19,364	NA
AMD Ryzen 5 PRO 5650GE	19,247	NA
Intel Core i7-10700KF @ 3.80GHz	19,235	\$312.02
AMD Ryzen 5 5600GE	18,879	NA
AMD Ryzen 5 3600XT	18,824	\$369.99
Intel Core i9-9900KF @ 3.60GHz	18,784	\$339.99
AMD Ryzen 5 3600X	18,305	\$234.76
Intel Core i5-11600 @ 2.80GHz	18,300	\$299.99
Intel Core i7-9800X @ 3.80GHz	18,293	\$1,023.99*
AMD 4700S	18,260	NA
AMD Ryzen 5 PRO 3600	18,037	NA
Apple M1 Pro 8 Core 3200 MHz	17,916	NA
AMD Ryzen 5 3600	17,841	\$189.89
Intel Core i5-11500 @ 2.70GHz	17,826	\$312.87
Intel Core i5-11400F @ 2.60GHz	17,692	\$211.05

Intel Core i5-11400 @ 2.60GHz	17,231	\$219.99
Intel Core i7-10700 @ 2.90GHz	17,195	\$399.99
 CPU Benchmarks ▼		
Intel Core i9-9900 @ 3.10GHz	16,985	\$327.99
AMD Ryzen 5 PRO 4650G	16,461	\$282.20
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	15,668	NA
Intel Core i9-10900T @ 1.90GHz	15,592	\$439.00*
Apple M1 8 Core 3200 MHz	15,143	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 i5-10600K @ 4.10GHz	14,585	\$269.97
Intel Core i5-10600KF @ 4.10GHz	14,584	\$229.99
Intel Core i7-9700KF @ 3.60GHz	14,575	\$383.90
AMD Ryzen 3 PRO 5350G	14,025	NA
Intel Core i5-10600 @ 3.30GHz	13,999	\$258.24
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	\$261.98
Intel Core i7-9700 @ 3.00GHz	13,419	\$303.99
AMD Ryzen 5 3500X	13,368	\$189.99
Intel Core i5-11400T @ 1.30GHz	13,367	\$182.00*
Intel Core i7-11700T @ 1.40GHz	13,311	\$323.00*
Intel Core i7-10700T @ 2.00GHz	13,297	\$479.83
Intel Core i5-10500 @ 3.10GHz	13,168	\$219.99
AMD Ryzen 5 3500	12,879	NA
AMD Ryzen 3 3300X	12,766	\$299.00
Intel Core i5-10400F @ 2.90GHz	12,451	\$172.91
Intel Core i5-10400 @ 2.90GHz	12,364	\$182.49
Intel Core i5-11500T @ 1.50GHz	12,085	\$192.00*
Intel Core i5-10505 @ 3.20GHz	12,057	NA
AMD Ryzen 3 3100	11,694	\$271.00
Intel Core i7-9700E @ 2.60GHz	11,544	\$323.00*
Intel Core i5-10600T @ 2.40GHz	11,430	\$213.00*
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	\$206.65

AMD Ryzen 3 PRO 4350G	10,817	NA
Intel Core i5-10500T @ 2.30GHz	10,736	\$192.00*
 CPU Benchmarks ▼		
Intel Core i7-9700T @ 2.00GHz	10,686	\$323.00*
Intel Core i5-9600 @ 3.10GHz	10,467	\$259.14
Intel Core i5-9500F @ 3.00GHz	10,299	\$170.00
Intel Core i3-10320 @ 3.80GHz	10,135	\$179.99
Intel Core i5-10400T @ 2.00GHz	10,103	\$182.00*
Intel Core i5-9500 @ 3.00GHz	9,768	\$209.99
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	9,545	\$149.99
Intel Core i5-9400 @ 2.90GHz	9,491	\$186.11
AMD Ryzen 5 2500X	9,462	NA
AMD Ryzen 5 PRO 3400G	9,373	NA
AMD Ryzen 5 3400G	9,349	\$244.45
Intel Core i3-10300 @ 3.70GHz	9,344	\$177.64
Intel Core i3-10105F @ 3.70GHz	9,195	\$98.00
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	8,884	\$131.31
Intel Core i3-10100F @ 3.60GHz	8,837	\$92.50
Intel Core i3-10100 @ 3.60GHz	8,829	\$136.00
Intel Core i5-10300H @ 2.50GHz	8,757	\$250.00*
Intel Core i5-9600T @ 2.30GHz	8,280	\$213.00*
Intel Core i3-10100E @ 3.20GHz	8,229	\$125.00*
AMD Ryzen Embedded V1756B	8,215	NA
Intel Core i5-9500T @ 2.20GHz	8,214	\$192.00*
AMD Ryzen 5 PRO 3400GE	8,208	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	\$143.00*
Intel Core i3-9350K @ 4.00GHz	7,760	\$293.22*
Intel Core i5-9400T @ 1.80GHz	7,729	\$182.00*
AMD Athlon Gold PRO 3150G	7,702	NA
Intel Core i3-9350KF @ 4.00GHz	7,520	\$219.99
AMD Ryzen 3 2300X	7,477	\$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	\$189.00
AMD Ryzen 3 3200G	7,213	\$289.95

AMD Athlon Gold PRO 3150GE	7,212	NA
AMD Ryzen 3 PRO 3200G	7,054	NA
 CPU Benchmarks ▼		
Intel Core i3-9100 @ 3.60GHz	6,610	\$155.50
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	4,467	\$54.99*
AMD Athlon 320GE	4,430	NA
Intel Pentium Gold G6600 @ 4.20GHz	4,396	\$149.88
Intel Pentium Gold G6505 @ 4.20GHz	4,378	\$75.00*
AMD Ryzen 3 PRO 2100GE	4,286	NA
Intel Pentium Gold G6405 @ 4.10GHz	4,286	\$125.99
AMD Ryzen Embedded R1606G	4,260	NA
Intel Pentium Gold G6500 @ 4.10GHz	4,191	\$119.99
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 Gold G6400T @ 3.40GHz	3,610	\$64.00*
Intel Pentium Silver J5040 @ 2.00GHz	3,575	NA
Intel Pentium Gold G5420 @ 3.80GHz	3,530	\$188.00
Intel Celeron J4125 @ 2.00GHz	3,039	NA
Intel Celeron G5925 @ 3.60GHz	2,873	\$69.95
Intel Celeron G5905 @ 3.50GHz	2,842	\$81.91
Intel Celeron G5920 @ 3.50GHz	2,807	\$76.99
Intel Celeron G5900 @ 3.40GHz	2,765	\$99.99
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	\$138.03
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 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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