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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
CPUS	<h3>PassMark - CPU Mark</h3> <p>Desktop CPU Performance Updated 5th of July 2022</p>		
High End	CPU	CPU Mark	Price (USD)
High Mid Range	AMD Ryzen Threadripper PRO 5995WX	103,642	NA
Low Mid Range	AMD Ryzen Threadripper PRO 3995WX	82,781	\$6,999.99
Low End	AMD Ryzen Threadripper 3990X	81,529	\$7,999.99
Best Value (On Market)	AMD Ryzen Threadripper PRO 5975WX	81,219	\$4,400.01
Best Value XY Scatter	AMD Ryzen Threadripper PRO 5965WX	67,986	NA
Best Value (All time)	AMD Ryzen Threadripper PRO 3970X	63,741	\$1,999.99
New Desktop	AMD Ryzen Threadripper PRO 3975WX	63,193	\$4,077.00
New Laptop	AMD Ryzen Threadripper 3960X	54,814	\$1,355.00
Single Thread	AMD Ryzen Threadripper PRO 5955WX	50,954	NA
Systems with Multiple CPUs	AMD Ryzen 9 5950X	45,908	\$548.89
Overclocked	Intel Core i9-12900KS	44,499	\$734.98
Power Performance	Apple M1 Ultra 20 Core	41,317	NA
CPU Mark by Socket Type	AMD Ryzen Threadripper PRO 5945WX	41,282	NA
Cross-Platform CPU Performance	Intel Core i9-12900K	41,260	\$589.99
	Intel Core i9-12900KF	41,218	\$549.97
	AMD Ryzen Threadripper PRO 3955WX	40,198	\$1,299.92
	Intel Xeon W-3265M @ 2.70GHz	39,618	\$6,353.00*
CPU Mega List	AMD Ryzen 9 5900X	39,349	\$399.00
Search Model	AMD Ryzen 9 3950X	39,073	\$755.00

		36,407	
CPU Benchmarks	Intel Core i9-12900F	36,064	\$509.99
	AMD Ryzen 9 5900	34,789	NA
Common	Intel Core i7-12700K	34,422	\$409.00*
	Intel Core i7-12700KF	34,245	\$377.98
Most Benchmarked	Intel Core i9-12900T	33,728	\$489.00*
	AMD Ryzen Threadripper PRO 3945WX	33,387	NA
AMD vs Intel Market Share	Intel Core i9-10980XE @ 3.00GHz	33,344	\$973.00
	AMD Ryzen 9 3900XT	32,976	\$618.99
	AMD Ryzen 9 3900X	32,789	\$527.86
Year on Year Performance	Intel Core i7-12700F	31,714	\$345.82
	Intel Core i7-12700	31,419	\$327.94
	AMD Ryzen 9 PRO 3900	31,407	NA
	AMD Ryzen 9 3900	30,628	\$515.21
	Intel Core i9-9990XE @ 4.00GHz	30,162	\$2,163.00*
	Intel Core i9-10940X @ 3.30GHz	28,476	\$726.19
	AMD Ryzen 7 5800X	28,181	\$289.99
	Intel Xeon W-2275 @ 3.30GHz	27,904	\$1,112.00*
	Intel Core i5-12600K	27,544	\$279.98
	AMD Ryzen 7 5800X3D	27,505	\$449.00
	Intel Core i5-12600KF	27,050	\$260.00
	Intel Core i9-10920X @ 3.50GHz	26,559	\$678.91
	AMD Ryzen 7 5700X	26,453	\$265.00
	Intel Xeon W-1390P @ 3.50GHz	26,031	NA
	Intel Xeon W-3323 @ 3.50GHz	25,875	\$949.00*
	AMD Ryzen 7 5800	25,823	NA
	Intel Core i9-11900K @ 3.50GHz	25,553	\$391.99
	Intel Core i9-11900KF @ 3.50GHz	25,293	\$365.00
	Intel Xeon W-1370P @ 3.60GHz	25,202	\$453.99
	AMD Ryzen 7 PRO 5750G	24,974	NA
	Intel Core i7-11700K @ 3.60GHz	24,701	\$296.00
	AMD Ryzen 7 5700G	24,586	\$289.00
	Intel Core i7-11700KF @ 3.60GHz	24,099	\$298.98
	Intel Xeon W-1370 @ 2.90GHz	23,908	\$377.99
	AMD Ryzen 7 3800XT	23,782	\$309.99
	Intel Core i9-10900K @ 3.70GHz	23,679	\$389.99
	Intel Core i9-10900KF @ 3.70GHz	23,422	\$359.99
	Intel Core i9-11900F @ 2.50GHz	23,360	\$400.99
	AMD Ryzen 7 3800X	23,336	\$219.99
	Intel Core i9-11900 @ 2.50GHz	23,100	\$351.31
	AMD Ryzen 7 PRO 3700	23,009	\$329.99*
	Intel Core i9-10850K @ 3.60GHz	23,003	\$349.95
	Intel Core i9-11900KB @ 3.30GHz	22,741	\$539.00*
	Intel Core i9-10900X @ 3.70GHz	22,660	\$550.00
	Intel Core i7-11700B @ 3.20GHz	22,627	NA
	AMD Ryzen 7 5700GE	22,484	NA
	Apple M1 Max 10 Core 3200 MHz	22,397	NA
	AMD Ryzen 7 PRO 5750GE	22,283	NA
	Intel Xeon W-2255 @ 3.70GHz	22,227	\$778.00*

CPU Benchmarks	Video	Card Benchmarks	Hard Drive Benchmarks	RAM	PC Systems	Android	iOS / iPhone
						22,183	
		Intel Core i7-12700T				22,086	\$339.00*
		AMD Ryzen Threadripper 1920				22,066	NA
		AMD Ryzen 5 5600X				22,015	\$177.99
		Intel Core i9-10910 @ 3.60GHz				21,778	NA
		AMD Ryzen 5 5600				21,700	\$179.99
		Intel Core i7-11700F @ 2.50GHz				21,318	\$313.46
		AMD Ryzen 7 PRO 4700G				20,848	NA
		Intel Core i9-10900F @ 2.80GHz				20,823	\$335.00
		Intel Core i5-12600				20,723	\$229.98
		Intel Core i9-10900E @ 2.80GHz				20,658	\$444.00*
		AMD Ryzen 7 PRO 4750G				20,573	\$274.99
		Intel Core i7-11700 @ 2.50GHz				20,524	\$313.97
		Intel Core i5-12500				20,429	\$202.00*
		AMD Ryzen 5 PRO 5650G				20,425	NA
		AMD Ryzen 7 4700GE				20,416	NA
		Intel Core i9-10900 @ 2.80GHz				20,390	\$379.99
		AMD Ryzen 7 4700G				20,230	\$238.20
		Intel Core i9-11900T @ 1.50GHz				20,111	\$439.00*
		AMD Ryzen 5 5600G				19,824	\$152.00
		Intel Core i5-12400F				19,812	\$169.95
		Intel Core i5-11600K @ 3.90GHz				19,728	\$199.99
		Intel Core i5-12490F				19,682	\$183.60
		Intel Core i5-11600KF @ 3.90GHz				19,659	\$209.99
		AMD Ryzen 5 5500				19,557	\$138.96
		Intel Core i9-9900KS @ 4.00GHz				19,550	\$894.99
		Intel Core i5-12400				19,543	\$192.00*
		Intel Core i7-10700K @ 3.80GHz				19,239	\$312.00
		Intel Core i7-10700KF @ 3.80GHz				19,113	\$289.96
		AMD Ryzen 5 5600GE				18,879	NA
		AMD Ryzen 5 3600XT				18,754	\$444.20
		AMD Ryzen 5 PRO 5650GE				18,610	NA
		AMD Ryzen 7 PRO 4750GE				18,470	NA
		AMD Ryzen 5 3600X				18,310	\$155.17
		AMD 4700S				18,260	NA
		Intel Core i5-11600 @ 2.80GHz				18,237	\$219.48
		AMD Ryzen 5 PRO 3600				17,900	NA
		Intel Core i5-12600T				17,857	NA
		Intel Core i5-11500B @ 3.30GHz				17,801	NA
		Intel Core i5-12500T				17,659	\$202.00*
		Intel Core i5-11500 @ 2.70GHz				17,653	\$192.99
		Apple M1 Pro 8 Core 3200 MHz				17,373	NA
		Intel Core i5-11400F @ 2.60GHz				17,200	\$134.56
		Intel Core i5-11400 @ 2.60GHz				17,099	\$154.29
		Intel Core i7-10700F @ 2.90GHz				17,030	\$248.00
		Intel Core i7-10700 @ 2.90GHz				16,871	\$252.91
		AMD Ryzen 5 PRO 4400G				16,456	NA
		AMD Ryzen 5 PRO 4650G				16,383	\$219.98
		AMD Ryzen 5 PRO 4650GE				15,694	NA

CPU Benchmarks	Video	Card Benchmarks	Hard Drive Benchmarks	RAM	PC Systems	Android	iOS/iPhone
		AMD Ryzen 5 4500				15,622	\$121.99
		AMD Ryzen 5 4600G				15,582	\$133.00
		Intel Core i9-10900T @ 1.90GHz				15,394	\$229.99
		Intel Core i7-11700T @ 1.40GHz				15,386	\$323.00*
		Intel Core i5-11600T @ 1.70GHz				15,352	\$213.00*
		Intel Core i3-12300				14,955	\$143.00*
		Intel Xeon W-1250P @ 4.10GHz				14,924	\$324.74
		AMD Ryzen 7 2700E				14,657	NA
		Apple M1 8 Core 3200 MHz				14,597	NA
		Intel Core i5-10600KF @ 4.10GHz				14,547	\$179.99
		Intel Core i5-10600K @ 4.10GHz				14,533	\$203.97
		Intel Core i3-12100				14,524	\$122.00*
		Intel Core i3-12100F				14,375	\$106.99
		AMD Ryzen 3 PRO 5350G				13,976	NA
		Intel Core i9-9900T @ 2.10GHz				13,947	\$439.00*
		Intel Core i5-10600 @ 3.30GHz				13,875	\$219.98
		AMD Ryzen 3 PRO 5350GE				13,693	NA
		AMD Ryzen 3 5300GE				13,636	NA
		Intel Core i5-11500T @ 1.50GHz				13,397	\$192.00*
		AMD Ryzen 5 3500X				13,321	\$111.08
		Intel Core i7-10700T @ 2.00GHz				13,214	\$447.99*
		Intel Core i5-11400T @ 1.30GHz				13,112	\$182.00*
		AMD Ryzen 3 5300G				13,104	NA
		Intel Core i5-10500 @ 3.10GHz				13,012	\$199.99
		AMD Ryzen 5 3500				12,869	NA
		Intel Core i7-9700E @ 2.60GHz				12,751	\$323.00*
		Intel Core i3-12100T				12,750	\$122.00*
		AMD Ryzen 3 3300X				12,723	\$304.99
		Intel Core i5-10400F @ 2.90GHz				12,409	\$122.00
		Intel Core i5-10505 @ 3.20GHz				12,345	NA
		Intel Core i5-10400 @ 2.90GHz				12,310	\$129.99
		AMD Ryzen 3 3100				11,654	\$132.00
		Intel Core i3-11100B @ 3.60GHz				11,357	NA
		AMD Ryzen 3 PRO 4200G				11,315	NA
		AMD Ryzen 3 4300GE				11,306	NA
		AMD Ryzen 3 PRO 4350GE				11,270	NA
		AMD Ryzen 3 4100				11,227	\$140.99
		Intel Core i5-10600T @ 2.40GHz				11,210	\$213.00*
		AMD Ryzen 3 PRO 4350G				10,875	NA
		Intel Core i7-9700TE @ 1.80GHz				10,826	\$323.00*
		AMD Ryzen 3 4300G				10,756	NA
		Intel Core i7-9700T @ 2.00GHz				10,738	\$323.00*
		Intel Core i5-9600 @ 3.10GHz				10,369	\$249.99
		Intel Core i5-9500F @ 3.00GHz				10,356	\$182.00
		Intel Core i5-10500T @ 2.30GHz				10,319	\$192.00*
		Intel Core i3-10325 @ 3.90GHz				10,308	\$190.10*
		Intel Core i3-10320 @ 3.80GHz				10,027	\$109.00
		Intel Core i5-10400T @ 2.00GHz				9,997	\$182.00*
		Intel Core i3-10305 @ 3.80GHz				9,689	\$159.99

CPU Benchmarks	Video	Card Benchmarks	Hard Drive Benchmarks	RAM	PC Systems	Android	iOS / iPhone
		AMD Ryzen 5 PRO 3350G				9,442	NA
		AMD Ryzen 5 3400G				9,351	\$177.00
		AMD Ryzen 5 3350GE				9,343	NA
		AMD Ryzen 5 PRO 3400G				9,301	NA
		Intel Core i3-10300 @ 3.70GHz				9,153	\$127.99
		Intel Core i3-10105F @ 3.70GHz				9,113	\$78.50
		Intel Core i7-9850HL @ 1.90GHz				9,112	\$395.00*
		AMD Ryzen 5 3350G				9,102	NA
		AMD Ryzen 5 3400GE				8,985	NA
		Intel Core i3-10100F @ 3.60GHz				8,861	\$74.99
		Intel Core i3-10105 @ 3.70GHz				8,854	\$104.95
		Intel Core i3-10100 @ 3.60GHz				8,781	\$110.99
		Intel Core i5-10300H @ 2.50GHz				8,654	\$250.00*
		Intel Core i5-9600T @ 2.30GHz				8,464	\$213.00*
		AMD Ryzen 5 PRO 3400GE				8,265	NA
		Intel Core i3-10100E @ 3.20GHz				8,229	\$125.00*
		AMD Ryzen Embedded V1756B				8,215	NA
		Intel Core i3-10305T @ 3.00GHz				8,136	\$143.00*
		Intel Core i3-10300T @ 3.00GHz				7,997	\$177.72
		Intel Core i3-10105T @ 3.00GHz				7,850	\$122.00*
		Intel Core i5-9400T @ 1.80GHz				7,827	\$182.00*
		AMD Athlon Gold PRO 3150G				7,702	NA
		Intel Core i3-9350K @ 4.00GHz				7,694	\$293.22*
		Intel Core i3-9320 @ 3.70GHz				7,358	\$216.00
		AMD Ryzen 3 3200GE				7,317	NA
		Intel Core i3-9300 @ 3.70GHz				7,279	\$268.56
		AMD Ryzen 3 3200G				7,199	\$139.99
		AMD Athlon Gold 3150G				7,093	NA
		AMD Athlon Gold PRO 3150GE				7,068	NA
		AMD Ryzen 3 PRO 3200G				6,952	NA
		Intel Pentium Gold G7400				6,804	\$79.99
		AMD Ryzen Embedded V1404I				6,241	NA
		Intel Core i3-9300T @ 3.20GHz				6,162	\$143.00*
		Intel Pentium Gold G7400T				5,883	\$64.00*
		Intel Core i5-4470S @ 3.00GHz				4,742	NA
		AMD Athlon Silver PRO 3125GE				4,633	NA
		Intel Celeron N5095A @ 2.00GHz				4,627	NA
		Intel Pentium Gold G6605 @ 4.30GHz				4,513	\$112.99
		AMD Athlon 3000G				4,479	\$74.99*
		AMD Athlon PRO 300GE				4,475	NA
		Intel Pentium Gold G6600 @ 4.20GHz				4,396	\$107.35
		Intel Pentium Gold G6505 @ 4.20GHz				4,378	\$75.00*
		AMD Athlon 300GE				4,301	NA
		AMD Athlon 320GE				4,300	NA
		Intel Pentium Gold G6405 @ 4.10GHz				4,299	\$49.99
		Intel Pentium Gold G5600F @ 3.90GHz				4,160	\$91.70
		AMD Ryzen Embedded R1606G				4,153	NA
		Intel Pentium Gold G6500 @ 4.10GHz				4,147	\$96.99
		Intel Pentium Gold G6400 @ 4.00GHz				4,125	\$68.99

CPU Benchmarks	Video Card Benchmarks	Hard Drive Benchmarks	RAM	PC Systems	Android	iOS / iPhone
					4,102	
	Intel Celeron N5095 @ 2.00GHz				4,029	NA
	Intel Pentium Gold G6500T @ 3.50GHz				4,005	\$75.00*
	Intel Pentium Gold G6405T @ 3.50GHz				3,746	\$64.00*
	Intel Pentium Gold G5600T @ 3.30GHz				3,601	NA
	Intel Pentium Gold G6400T @ 3.40GHz				3,586	\$64.00*
	Intel Pentium Silver J5040 @ 2.00GHz				3,518	NA
	Intel Pentium Gold G5420T @ 3.20GHz				3,508	\$64.00*
	Intel Celeron G6900				3,446	\$42.00
	Intel Celeron J4125 @ 2.00GHz				2,986	NA
	Intel Celeron G5925 @ 3.60GHz				2,939	\$45.71
	Intel Celeron G5905 @ 3.50GHz				2,817	\$46.00
	Intel Celeron G4950 @ 3.30GHz				2,714	\$1,008.64*
	Intel Celeron J4115 @ 1.80GHz				2,709	NA
	Intel Celeron G5900 @ 3.40GHz				2,672	\$53.99
	Intel Celeron G5900T @ 3.20GHz				2,648	\$42.00*
	Intel Celeron G4930 @ 3.20GHz				2,571	\$125.85
	AMD Athlon II X4 557				2,567	NA
	Intel Celeron G5920 @ 3.50GHz				2,482	\$66.00
	Intel Celeron G5905T @ 3.30GHz				2,310	\$42.00*
	Intel Celeron G4930T @ 3.00GHz				2,250	\$42.00*
	Intel Celeron G3930TE @ 2.70GHz				2,218	\$42.00*
	Intel Celeron J3455E @ 1.50GHz				2,139	NA
	Intel Core2 Extreme Q9200 @ 2.40GHz				2,011	NA
	AMD Athlon X4 730				1,936	NA
	AMD Athlon X4 530				1,786	NA
	Intel Celeron J4025 @ 2.00GHz				1,722	NA
	Intel Pentium G2120T @ 2.70GHz				1,613	NA
	AMD R-272F APU				1,215	NA

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