

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 21st of June 2022

CPU	CPU Mark	Price (USD)
AMD Ryzen Threadripper PRO 5995WX	106,116	NA
AMD Ryzen Threadripper PRO 3995WX	83,116	\$7,459.79
AMD Ryzen Threadripper 3990X	81,544	\$6,534.09
AMD Ryzen Threadripper PRO 5975WX	80,842	NA
AMD Ryzen Threadripper PRO 5965WX	67,986	NA
AMD Ryzen Threadripper 3970X	63,735	\$1,999.99
AMD Ryzen Threadripper PRO 3975WX	63,332	\$3,975.95
AMD Ryzen Threadripper 3960X	54,806	\$1,355.00
AMD Ryzen Threadripper PRO 5955WX	50,954	NA
AMD Ryzen 9 5950X	45,918	\$535.11
Intel Core i9-12900KS	44,469	\$734.98
Apple M1 Ultra 20 Core	41,303	NA
AMD Ryzen Threadripper PRO 5945WX	41,282	NA
Intel Core i9-12900K	41,195	\$589.99
Intel Core i9-12900KF	41,168	\$522.99
AMD Ryzen Threadripper PRO 3955WX	40,198	\$1,375.90
Intel Xeon W-3265M @ 2.70GHz	39,618	\$6,353.00*
AMD Ryzen 9 5900X	39,350	\$395.99
AMD Ryzen 9 3950X	39,071	\$569.99
Intel Core i9-12900	36,582	\$508.99
Intel Core i9-12900F	35,847	\$459.99
AMD Ryzen 9 5900	34,754	NA
Intel Core i7-12700K	34,417	\$409.00*
Intel Core i7-12700KF	34,181	\$377.98
Intel Core i9-12900T	33,728	\$489.00*
AMD Ryzen Threadripper PRO 3945WX	33,441	NA
Intel Core i9-10980XE @ 3.00GHz	33,388	\$875.83
AMD Ryzen 9 3900XT	32,983	\$618.99
AMD Ryzen 9 3900X	32,795	\$528.00

Intel Core i7-12700F	31,869	\$312.97
Intel Core i7-12700	31,512	\$340.77
AMD Ryzen 9 PRO 3900	31,372	NA
AMD Ryzen 9 3900	30,628	\$516.99
Intel Core i9-9990XE @ 4.00GHz	30,162	\$2,163.00*
Intel Core i9-10940X @ 3.30GHz	28,591	\$761.46
AMD Ryzen 7 5800X	28,193	\$289.99
Intel Xeon W-2275 @ 3.30GHz	27,904	\$1,112.00*
AMD Ryzen 7 5800X3D	27,660	\$448.98
Intel Core i5-12600K	27,520	\$279.99
Intel Core i5-12600KF	27,112	\$245.00
Intel Core i9-10920X @ 3.50GHz	26,591	\$649.99
AMD Ryzen 7 5700X	26,478	\$286.99
Intel Xeon W-1390P @ 3.50GHz	26,031	NA
Intel Xeon W-3323 @ 3.50GHz	25,875	\$949.00*
AMD Ryzen 7 5800	25,810	NA
Intel Core i9-11900K @ 3.50GHz	25,545	\$391.99
Intel Core i9-11900KF @ 3.50GHz	25,282	\$379.96
Intel Xeon W-1370P @ 3.60GHz	25,202	\$419.99
AMD Ryzen 7 PRO 5750G	24,974	NA
Intel Core i7-11700K @ 3.60GHz	24,731	\$299.99
AMD Ryzen 7 5700G	24,593	\$272.98
Intel Core i7-11700KF @ 3.60GHz	24,111	\$290.99
Intel Xeon W-1370 @ 2.90GHz	23,908	\$349.99
AMD Ryzen 7 3800XT	23,793	\$309.99
Intel Core i9-10900K @ 3.70GHz	23,696	\$424.00
Intel Core i9-11900F @ 2.50GHz	23,505	\$400.99
Intel Core i9-10900KF @ 3.70GHz	23,451	\$359.99
AMD Ryzen 7 3800X	23,338	\$219.99
Intel Core i9-11900 @ 2.50GHz	23,091	\$356.99
Intel Core i9-10850K @ 3.60GHz	23,001	\$349.98
AMD Ryzen 7 PRO 3700	22,935	\$329.99*
Intel Core i9-11900KB @ 3.30GHz	22,741	\$539.00*
AMD Ryzen 7 3700X	22,732	\$317.95
Intel Core i9-10900X @ 3.70GHz	22,652	\$560.00
Intel Core i7-11700B @ 3.20GHz	22,549	NA
AMD Ryzen 7 5700GE	22,484	NA
Apple M1 Max 10 Core 3200 MHz	22,450	NA
AMD Ryzen 7 PRO 5750GE	22,283	NA
Intel Xeon W-2255 @ 3.70GHz	22,227	\$778.00*
Apple M1 Pro 10 Core 3200 MHz	22,220	NA
Intel Core i7-12700T	22,217	\$339.00*
AMD Ryzen Threadripper 1920	22,066	NA
AMD Ryzen 5 5600X	22,024	\$180.99
Intel Core i9-10910 @ 3.60GHz	21,791	NA
AMD Ryzen 5 5600	21,735	\$179.99
Intel Core i7-11700F @ 2.50GHz	21,345	\$289.98
Intel Core i9-10900F @ 2.80GHz	20,881	\$340.00
AMD Ryzen 7 PRO 4700G	20,848	NA
Intel Core i9-10900E @ 2.80GHz	20,658	\$444.00*
Intel Core i7-11700 @ 2.50GHz	20,578	\$313.97
AMD Ryzen 7 PRO 4750G	20,573	\$274.99
Intel Core i5-12600	20,572	\$229.98
AMD Ryzen 5 PRO 5650G	20,479	NA
AMD Ryzen 7 4700GE	20,416	NA

Intel Core i5-12500	20,406	\$202.00*
Intel Core i9-10900 @ 2.80GHz	20,403	\$378.99
AMD Ryzen 7 4700G	20,201	\$238.20
Intel Core i9-11900T @ 1.50GHz	20,111	\$439.00*
AMD Ryzen 5 5600G	19,831	\$159.99
Intel Core i5-12400F	19,800	\$160.00
Intel Core i5-11600K @ 3.90GHz	19,745	\$194.00
Intel Core i5-11600KF @ 3.90GHz	19,687	\$209.96
AMD Ryzen 5 5500	19,625	\$138.98
Intel Core i9-9900KS @ 4.00GHz	19,550	\$896.17
Intel Core i5-12400	19,543	\$192.00*
Intel Core i7-10700K @ 3.80GHz	19,245	\$328.99
Intel Core i7-10700KF @ 3.80GHz	19,108	\$289.96
AMD Ryzen 5 5600GE	18,879	NA
AMD Ryzen 5 3600XT	18,764	\$444.20
AMD Ryzen 5 PRO 5650GE	18,652	NA
Intel Core i5-12600T	18,523	NA
AMD Ryzen 7 PRO 4750GE	18,470	NA
AMD Ryzen 5 3600X	18,311	\$155.39
AMD 4700S	18,297	NA
Intel Core i5-11600 @ 2.80GHz	18,234	\$224.50
AMD Ryzen 5 PRO 3600	17,900	NA
AMD Ryzen 5 3600	17,829	\$124.99
Intel Core i5-11500B @ 3.30GHz	17,801	NA
Intel Core i5-12500T	17,657	\$202.00*
Intel Core i5-11500 @ 2.70GHz	17,633	\$192.99
Apple M1 Pro 8 Core 3200 MHz	17,393	NA
Intel Core i5-11400F @ 2.60GHz	17,219	\$134.41
Intel Core i5-11400 @ 2.60GHz	17,120	\$172.99
Intel Core i7-10700F @ 2.90GHz	17,038	\$249.97
Intel Core i7-10700 @ 2.90GHz	16,896	\$247.38
Intel Core i9-9900 @ 3.10GHz	16,881	\$715.51
AMD Ryzen 5 PRO 4400G	16,456	NA
AMD Ryzen 5 PRO 4650G	16,397	\$219.99
AMD Ryzen 5 4500	16,028	\$129.25
AMD Ryzen 5 PRO 4650GE	15,706	NA
AMD Ryzen 5 4600GE	15,656	NA
AMD Ryzen 5 4600G	15,590	\$154.00
Intel Core i5-11600T @ 1.70GHz	15,352	\$213.00*
Intel Core i9-10900T @ 1.90GHz	15,134	\$439.00*
Intel Core i7-11700T @ 1.40GHz	15,122	\$323.00*
Intel Core i3-12300	14,955	\$143.00*
Intel Xeon W-1250P @ 4.10GHz	14,924	\$596.66*
AMD Ryzen 7 2700E	14,657	NA
Apple M1 8 Core 3200 MHz	14,637	NA
Intel Core i5-10600KF @ 4.10GHz	14,554	\$179.99
Intel Core i3-12100	14,540	\$122.00*
Intel Core i5-10600K @ 4.10GHz	14,533	\$203.99
AMD Ryzen 3 PRO 5350G	13,976	NA
Intel Core i9-9900T @ 2.10GHz	13,947	\$439.00*
Intel Core i5-10600 @ 3.30GHz	13,876	\$219.98
Intel Core i5-11500T @ 1.50GHz	13,703	\$192.00*
AMD Ryzen 3 PRO 5350GE	13,693	NA
AMD Ryzen 3 5300GE	13,636	NA
AMD Ryzen 5 3500X	13,316	\$111.94

Intel Core i5-11400T @ 1.30GHz	<u>13,199</u>	\$182.00*
Intel Core i7-10700T @ 2.00GHz	<u>13,192</u>	\$447.99*
AMD Ryzen 3 5300G	<u>13,104</u>	NA
Intel Core i5-10500 @ 3.10GHz	<u>13,014</u>	\$210.00
AMD Ryzen 5 3500	<u>12,867</u>	NA
Intel Core i7-9700E @ 2.60GHz	<u>12,751</u>	\$323.00*
Intel Core i3-12100T	<u>12,745</u>	\$122.00*
AMD Ryzen 3 3300X	<u>12,725</u>	\$233.74
Intel Core i5-10400F @ 2.90GHz	<u>12,410</u>	\$119.98
Intel Core i5-10400 @ 2.90GHz	<u>12,324</u>	\$146.99
Intel Core i5-10505 @ 3.20GHz	<u>12,299</u>	NA
AMD Ryzen 3 3100	<u>11,655</u>	\$134.95
Intel Core i3-11100B @ 3.60GHz	<u>11,357</u>	NA
AMD Ryzen 3 PRO 4200G	<u>11,315</u>	NA
AMD Ryzen 3 4300GE	<u>11,306</u>	NA
AMD Ryzen 3 PRO 4350GE	<u>11,270</u>	NA
AMD Ryzen 3 4100	<u>11,227</u>	\$111.49
Intel Core i5-10600T @ 2.40GHz	<u>11,210</u>	\$213.00*
AMD Ryzen 3 PRO 4350G	<u>10,864</u>	NA
Intel Core i7-9700TE @ 1.80GHz	<u>10,826</u>	\$323.00*
Intel Core i7-9700T @ 2.00GHz	<u>10,756</u>	\$323.00*
AMD Ryzen 3 4300G	<u>10,756</u>	NA
Intel Core i5-9600 @ 3.10GHz	<u>10,369</u>	\$256.00
Intel Core i5-10500T @ 2.30GHz	<u>10,359</u>	\$192.00*
Intel Core i5-9500F @ 3.00GHz	<u>10,356</u>	\$182.00
Intel Core i3-10325 @ 3.90GHz	<u>10,308</u>	\$154.00*
Intel Core i3-10320 @ 3.80GHz	<u>10,027</u>	\$129.90
Intel Core i5-10400T @ 2.00GHz	<u>9,997</u>	\$182.00*
Intel Core i3-10305 @ 3.80GHz	<u>9,689</u>	\$159.99
AMD Ryzen 5 3350GE	<u>9,684</u>	NA
AMD Ryzen 5 PRO 3350GE	<u>9,643</u>	NA
AMD Ryzen 5 PRO 3350G	<u>9,442</u>	NA
AMD Ryzen 5 3400G	<u>9,353</u>	\$177.00
AMD Ryzen 5 PRO 3400G	<u>9,312</u>	NA
Intel Core i3-10300 @ 3.70GHz	<u>9,153</u>	\$127.99
Intel Core i7-9850HL @ 1.90GHz	<u>9,112</u>	\$395.00*
Intel Core i3-10105F @ 3.70GHz	<u>9,105</u>	\$78.99
AMD Ryzen 5 3350G	<u>9,102</u>	NA
AMD Ryzen 5 3400GE	<u>8,985</u>	NA
Intel Core i3-10105 @ 3.70GHz	<u>8,885</u>	\$84.99
Intel Core i3-10100F @ 3.60GHz	<u>8,855</u>	\$74.99
Intel Core i3-10100 @ 3.60GHz	<u>8,791</u>	\$99.95
Intel Core i5-10300H @ 2.50GHz	<u>8,662</u>	\$250.00*
Intel Core i5-9600T @ 2.30GHz	<u>8,464</u>	\$213.00*
AMD Ryzen 5 PRO 3400GE	<u>8,274</u>	NA
Intel Core i3-10100E @ 3.20GHz	<u>8,229</u>	\$125.00*
AMD Ryzen Embedded V1756B	<u>8,215</u>	NA
Intel Core i3-10305T @ 3.00GHz	<u>8,136</u>	\$143.00*
Intel Core i3-10300T @ 3.00GHz	<u>7,997</u>	\$175.91*
Intel Core i3-10105T @ 3.00GHz	<u>7,850</u>	\$122.00*
Intel Core i5-9400T @ 1.80GHz	<u>7,827</u>	\$182.00*
AMD Athlon Gold PRO 3150G	<u>7,702</u>	NA
Intel Core i3-9350K @ 4.00GHz	<u>7,694</u>	\$293.22*
Intel Core i3-9320 @ 3.70GHz	<u>7,358</u>	\$217.13
AMD Ryzen 3 3200GE	<u>7,317</u>	NA

Intel Core i3-9300 @ 3.70GHz	<u>7,279</u>	\$273.31
AMD Ryzen 3 3200G	<u>7,200</u>	\$139.99
AMD Athlon Gold 3150G	<u>7,093</u>	NA
AMD Athlon Gold PRO 3150GE	<u>7,068</u>	NA
AMD Ryzen 3 PRO 3200G	<u>6,959</u>	NA
Intel Pentium Gold G7400	<u>6,804</u>	\$79.99
Intel Core i3-9100 @ 3.60GHz	<u>6,627</u>	\$163.00
AMD Ryzen Embedded V1404I	<u>6,241</u>	NA
Intel Core i3-9300T @ 3.20GHz	<u>6,162</u>	\$143.00*
Intel Pentium Gold G7400T	<u>5,883</u>	\$64.00*
Intel Core i3-9100T @ 3.10GHz	<u>5,465</u>	\$122.00*
Intel Core i5-4470S @ 3.00GHz	<u>4,742</u>	NA
AMD Athlon Silver PRO 3125GE	<u>4,633</u>	NA
Intel Celeron N5095A @ 2.00GHz	<u>4,627</u>	NA
Intel Pentium Gold G6605 @ 4.30GHz	<u>4,513</u>	\$124.45
AMD Athlon 3000G	<u>4,479</u>	\$74.99*
AMD Athlon PRO 300GE	<u>4,475</u>	NA
Intel Pentium Gold G6600 @ 4.20GHz	<u>4,396</u>	\$107.35
Intel Pentium Gold G6505 @ 4.20GHz	<u>4,378</u>	\$75.00*
AMD Athlon 300GE	<u>4,301</u>	NA
AMD Athlon 320GE	<u>4,300</u>	NA
Intel Pentium Gold G6405 @ 4.10GHz	<u>4,296</u>	\$49.99
Intel Pentium Gold G5600F @ 3.90GHz	<u>4,160</u>	\$91.90
AMD Ryzen Embedded R1606G	<u>4,153</u>	NA
Intel Pentium Gold G6500 @ 4.10GHz	<u>4,147</u>	\$96.99
Intel Pentium Gold G6400 @ 4.00GHz	<u>4,137</u>	\$68.99
Intel Pentium Gold G5620 @ 4.00GHz	<u>4,102</u>	\$159.99*
Intel Celeron N5095 @ 2.00GHz	<u>4,029</u>	NA
Intel Pentium Gold G6500T @ 3.50GHz	<u>4,005</u>	\$75.00*
Intel Pentium Gold G6405T @ 3.50GHz	<u>3,746</u>	\$64.00*
Intel Pentium Gold G5600T @ 3.30GHz	<u>3,601</u>	NA
Intel Pentium Gold G6400T @ 3.40GHz	<u>3,586</u>	\$64.00*
Intel Pentium Silver J5040 @ 2.00GHz	<u>3,518</u>	NA
Intel Pentium Gold G5420T @ 3.20GHz	<u>3,508</u>	\$64.00*
Intel Celeron G6900	<u>3,446</u>	\$70.00
Intel Celeron J4125 @ 2.00GHz	<u>2,985</u>	NA
Intel Celeron G5925 @ 3.60GHz	<u>2,939</u>	\$64.99
Intel Celeron G5905 @ 3.50GHz	<u>2,817</u>	\$47.50
Intel Celeron G4950 @ 3.30GHz	<u>2,714</u>	\$1,008.66*
Intel Celeron J4115 @ 1.80GHz	<u>2,709</u>	NA
Intel Celeron G5900 @ 3.40GHz	<u>2,672</u>	\$53.99
Intel Celeron G5900T @ 3.20GHz	<u>2,648</u>	\$42.00*
Intel Celeron G4930 @ 3.20GHz	<u>2,571</u>	\$59.96
AMD Athlon II X4 557	<u>2,567</u>	NA
Intel Celeron G5920 @ 3.50GHz	<u>2,482</u>	\$76.99
Intel Celeron G5905T @ 3.30GHz	<u>2,310</u>	\$42.00*
Intel Celeron G4930T @ 3.00GHz	<u>2,250</u>	\$42.00*
Intel Celeron G3930TE @ 2.70GHz	<u>2,218</u>	\$42.00*
Intel Celeron J3455E @ 1.50GHz	<u>2,139</u>	NA
Intel Core2 Extreme Q9200 @ 2.40GHz	<u>2,011</u>	NA
AMD Athlon X4 730	<u>1,936</u>	NA
AMD Athlon X4 530	<u>1,786</u>	NA
Intel Celeron J4025 @ 2.00GHz	<u>1,725</u>	NA
Intel Pentium G2120T @ 2.70GHz	<u>1,613</u>	NA
AMD R-272F APU	<u>1,215</u>	NA

