☆ CPU Benchmarks ▼

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 <u>PerformanceTest</u> 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		CPU Mark	Price Performance	Sorted by	/ Date		
	High End High Mid Range Low Mid Range	PassMark - CPU Mark Desktop CPU Performance Updated 28th of July 2023					
	Low End	CPU	CPU Mark		Price (USD)		
		AMD Ryzen Threadripper PRO 5995WX		<u>98,039</u>	<u>\$5,699.99</u>		
\$	Best Value (On Market)	AMD Ryzen Threadripper PRO 3995WX		<u>83,439</u>	<u>\$6,866.00</u>		
	Best Value XY	AMD Ryzen Threadripper PRO 5975WX		<u>76,143</u>	<u>\$2,699.99</u>		
	Scatter Best Value (All time)	AMD Ryzen Threadripper PRO 5965WX		<u>66,539</u>	<u>\$1,999.99</u>		
		AMD Ryzen 9 7950X		<u>63,516</u>	<u>\$540.99</u>		
٩	New Desktop New Laptop	AMD Ryzen Threadripper PRO <u>3975WX</u>		<u>62,992</u>	<u>\$2,997.19</u>		
		AMD Ryzen 9 7950X3D		<u>62,950</u>	<u>\$661.08</u>		
		Intel Core i9-13900KS		<u>61,982</u>	<u>\$999.99</u>		
<u>h.</u>	Single Thread	Intel Core i9-13900K		<u>59,867</u>	<u>\$569.97</u>		
	Systems with Multiple CPUs	Intel Core i9-13900KF		<u>59,370</u>	<u>\$546.49</u>		
		Intel Core i9-13900F		<u>53,157</u>	<u>\$526.03</u>		
	Overclocked	AMD Ryzen 9 7900X		<u>52,405</u>	<u>\$409.00</u>		
	Power Performance	AMD Ryzen 9 7900X3D		<u>51,020</u>	<u>\$561.05</u>		
	CPU Mark by Socket	AMD Ryzen Threadripper PRO 5955WX		<u>49,594</u>	<u>\$1,099.99</u>		
	Type Cross-Platform CPU Performance Top Gaming CPUs	Intel Core i9-13900		<u>49,381</u>	<u>\$549.99</u>		
		AMD Ryzen 9 7900		<u>49,367</u>	<u>\$419.99</u>		
		Apple M2 Ultra 24 Core		<u>48,187</u>	<u>NA</u>		
		Intel Core i7-13700K		<u>46,939</u>	<u>\$407.99</u>		
Q	CPU Mega List	Intel Core i7-13700KF		<u>46,696</u>	<u>\$390.98</u>		
•	Search Model	AMD Ryzen 9 5950X		<u>45,911</u>	<u>\$441.71</u>		
		Intel Core i9-12900KS		<u>44,297</u>	<u>\$399.99</u>		
	Compare	Intel Core i9-13900T		<u>43,966</u>	<u>\$549.00*</u>		
		Intel Core i9-12900K		<u>41,583</u>	<u>\$352.99</u>		

☆ Common

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AMD vs Intel Market Share

> Year on Year Performance

Intel Core i9-12900KF	<u>41,351</u>	<u>\$398.99</u>
Intel Core i7-13700F	41.277	\$360.99
5945WX	<u>40,758</u>	NA
AMD Ryzen Threadripper PRO	<u>40,309</u>	<u>\$990.80</u>
<u>3955WX</u> AMD Ryzen 9 5900X	<u>39,301</u>	<u>\$299.99</u>
Intel Core i7-13700	38,833	<u>\$349.99</u>
Intel Core i5-13600K	38,427	<u>\$309.99</u>
Intel Core i5-13600KF	38,322	<u>\$292.99</u>
Intel Core i9-12900F	37,263	<u>\$425.00</u>
AMD Ryzen 7 7700X	<u>36,505</u>	<u>\$315.75</u>
AMD Ryzen 7 7700	<u>35,448</u>	<u>\$319.79</u>
AMD Ryzen 7 7800X3D	<u>34,930</u>	<u>\$439.00</u>
Intel Core i7-12700K	<u>34,779</u>	<u>\$409.00*</u>
AMD Ryzen 9 PRO 5945	<u>34,730</u>	<u>NA</u>
Intel Core i9-12900	<u>34,713</u>	<u>\$449.99</u>
Intel Core i7-12700KF	<u>34,583</u>	<u>\$276.00</u>
AMD Ryzen 9 5900	<u>34,516</u>	<u>NA</u>
Intel Core i5-13600	<u>33,725</u>	<u>\$255.00*</u>
AMD Ryzen Threadripper PRO	<u>33,531</u>	<u></u>
<u>3945WX</u> Intel Core i5-13500	32,582	<u>\$247.98</u>
Intel Core i7-13700T	32,034	<u>\$384.00*</u>
Intel Xeon W-3265M @ 2.70GHz	32,025	<u>\$6,353.00*</u>
Intel Core i7-12700F	<u>31,087</u>	<u>\$284.99</u>
Intel Core i7-12700	<u>31,064</u>	<u>\$325.49</u>
Intel Core i9-12900T	<u>30,998</u>	
AMD Ryzen 5 7600X	28,880	<u>\$489.00*</u> <u>\$218.00</u>
Intel Core i7-12700E	28,292	<u>\$344.00*</u>
AMD Ryzen 7 5800X3D	28,207	<u>\$289.55</u>
AMD Ryzen 7 5800X	28,045	<u>\$225.03</u>
Intel Xeon W-2275 @ 3.30GHz	27,933	<u>\$2,058.00*</u>
<u>AMD Ryzen 5 7600</u>	27,857	<u>\$219.99</u>
Intel Core i5-12600K	27,793	<u>\$199.99</u>
Intel Core i5-13490F	27,675	<u>\$263.66</u>
Intel Core i5-12600KF	27,466	<u>\$219.94</u>
AMD Ryzen 7 5700X	26,825	<u>\$184.99</u>
AMD Ryzen 7 PRO 5845	26,305	<u>NA</u>
Intel Core i5-13600T	<u>26,077</u>	<u>\$255.00*</u>
AMD Ryzen 7 5800	25,890	<u></u>
Intel Xeon W-3323 @ 3.50GHz	25,875	<u>\$949.00*</u>
Intel Core i5-13400F	25,752	<u>\$164.99</u>
Intel Core i5-13400	25,523	<u>\$228.26</u>
Intel Core i9-11900K @ 3.50GHz	25,462	<u>\$318.90</u>
Intel Xeon W-1390P @ 3.50GHz	<u>25,451</u>	<u>NA</u>
Intel Core i9-11900KF @ 3.50GHz	<u>25,404</u>	<u>\$415.99</u>
Intel Xeon W-1370P @ 3.60GHz	<u>24,961</u>	<u>\$508.99</u>
AMD Ryzen 7 5700G	<u>24,678</u>	<u>\$167.86</u>
Intel Core i7-11700K @ 3.60GHz	24,672	<u>\$276.10</u>
AMD Ryzen 7 PRO 5750G	24,527	<u></u> <u>NA</u>
<u>AMD Ryzen 7 5700</u>	24,370	NA
Intel Core i7-11700KF @ 3.60GHz	24,080	<u>\$262.99</u>
<u></u>	<u> </u>	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>

Intel Xeon W-1370 @ 2.90GHz	<u>23,908</u>	<u>\$468.99</u>
Intel Core i5-13500T	23.080	\$232.00*
	23.000	
Intel Core i9-11900KB @ 3.30GHz	<u>22,974</u>	<u>\$539.00*</u>
Intel Core i7-11700B @ 3.20GHz	<u>22,910</u>	NA
Intel Core i9-11900F @ 2.50GHz	22,774	<u>\$418.99</u>
Intel Core i9-10850K @ 3.60GHz	<u>22,640</u>	\$265.99
AMD Ryzen 7 5700GE	22,196	NA
Apple M1 Max 10 Core 3200 MHz	<u>22,081</u>	NA
AMD Ryzen Threadripper 1920	<u>22,066</u>	NA
AMD Ryzen 7 PRO 5750GE	<u>22,050</u>	NA
AMD Ryzen 5 5600X3D	<u></u> <u>21,985</u>	NA
AMD Ryzen 5 5600X	<u>21,952</u>	<u>\$156.41</u>
AMD Ryzen 5 PRO 5645	<u>21,904</u>	<u>NA</u>
Apple M1 Pro 10 Core 3200 MHz	<u>21,876</u>	NA
Intel Core i7-12700T	<u>21,838</u>	<u>\$339.00*</u>
Intel Core i9-10910 @ 3.60GHz	<u>21,781</u> 21,669	NA NA
Apple M2 Pro 10 Core 3480 MHz	<u>21,669</u> <u>21,657</u>	<u>NA</u> \$110.00
AMD Ryzen 5 5600		<u>\$119.99</u>
Intel Core i5-12600	<u>21,436</u>	\$260.00
Intel Core i7-11700F @ 2.50GHz	<u>21,178</u>	<u>\$225.99</u>
AMD Ryzen 7 PRO 4700G	<u>20,848</u>	NA \$101.00
Intel Core i5-12490F	<u>20,650</u>	<u>\$181.99</u>
<u>AMD Ryzen 7 4700G</u>	<u>20,252</u>	<u>\$235.12</u>
Intel Core i5-12500	<u>20,022</u>	<u>\$202.00*</u>
Intel Core i7-11700 @ 2.50GHz	<u>20,015</u>	<u>\$194.99</u>
AMD Ryzen 5 5600G	<u>19,936</u>	<u>\$121.80</u>
AMD Ryzen 7 4700GE	<u>19,898</u>	NA
Intel Core i5-13400T	<u>19,805</u>	<u>\$221.00*</u>
Intel Core i5-11600K @ 3.90GHz	<u>19,730</u>	<u>\$178.48</u>
Intel Core i5-12400F	<u>19,699</u>	<u>\$149.99</u>
Intel Core i5-11600KF @ 3.90GHz	<u>19,697</u>	<u>\$214.82</u>
AMD Ryzen 5 PRO 5650G	<u>19,626</u>	<u>NA</u>
AMD Ryzen 5 5500	<u>19,598</u>	<u>\$84.99</u>
Intel Core i9-10900E @ 2.80GHz	<u>19,562</u>	<u>\$444.00*</u>
Intel Core i5-12400	<u>19,504</u>	<u>\$192.00*</u>
AMD Ryzen 5 5600GE	<u>18,856</u>	<u>NA</u>
Intel Core i9-11900T @ 1.50GHz	<u>18,547</u>	<u>\$439.00*</u>
AMD Ryzen 7 PRO 4750GE	<u>18,500</u>	NA
AMD Ryzen 5 PRO 5650GE	<u>18,482</u>	NA
Intel Core i5-11600 @ 2.80GHz	<u>18,119</u>	<u>\$247.99</u>
AMD 4700S	<u>18,063</u>	NA
Intel Core i5-11500B @ 3.30GHz	<u>17,801</u>	NA
Intel Core i5-12600T	<u>17,472</u>	NA
Intel Core i5-11500 @ 2.70GHz	<u>17,460</u>	<u>\$208.50</u>
Apple M1 Pro 8 Core 3200 MHz	<u>17,171</u>	NA
Intel Core i5-11400F @ 2.60GHz	<u>17,167</u>	<u>\$119.99</u>
Intel Core i5-11400 @ 2.60GHz	<u>17,091</u>	<u>\$139.40</u>
Intel Core i5-12500T	<u>16,826</u>	<u>\$202.00*</u>
Intel Core i5-12400T	<u>16,543</u>	<u>\$149.99</u>
AMD Ryzen 5 PRO 4400G	<u>16,354</u>	NA
AMD Ryzen 5 4500	<u>16,273</u>	<u>\$75.09</u>

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Intel Core i7-11700T @ 1.40GHz	<u>16,070</u>	<u>\$323.00*</u>
AMD Rvzen 5 4600GE	15.641	NA
Apple M2 8 Core 3500 MHz	<u>15,347</u>	NA
AMD Ryzen 5 PRO 4655G	<u>15,276</u>	NA
Intel Core i3-13100F	<u>14,961</u>	<u>\$110.99</u>
Intel Core i3-13100	<u>14,955</u>	<u>\$128.67</u>
Intel Core i5-11600T @ 1.70GHz	<u>14,713</u>	<u>\$213.00*</u>
Intel Core i3-12300	<u>14,706</u>	<u>\$143.00*</u>
Intel Xeon W-1250P @ 4.10GHz	<u>14,440</u>	<u>\$321.50*</u>
Intel Core i5-10600KF @ 4.10GHz	<u>14,408</u>	<u>\$175.99</u>
Intel Core i3-12100F	<u>14,281</u>	<u>\$136.99</u>
Apple M1 8 Core 3200 MHz	<u>14,092</u>	NA
Intel Core i3-12100	<u>13,861</u>	<u>\$122.00*</u>
AMD Ryzen 3 PRO 5350G	<u>13,860</u>	NA
Intel Core i5-11400T @ 1.30GHz	<u>13,534</u>	<u>\$182.00*</u>
AMD Ryzen 3 PRO 5350GE	<u>13,519</u>	NA
Intel Core i5-11500T @ 1.50GHz	<u>13,347</u>	<u>\$192.00*</u>
AMD Ryzen 3 5300GE	<u>13,321</u>	NA
Intel Core i3-12300T	<u>13,239</u>	<u>\$157.00*</u>
Intel Core i3-13100T	<u>13,120</u>	<u>\$134.00*</u>
AMD Ryzen 3 5300G	<u>12,899</u>	NA
Intel Core i7-9700E @ 2.60GHz	<u>12,898</u>	<u>\$323.00*</u>
Intel Core i3-12100T	<u>12,859</u>	<u>\$122.00*</u>
Intel Core i5-10505 @ 3.20GHz	<u>12,198</u>	NA
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	11,227	NA
Intel Core i5-10600T @ 2.40GHz	<u>11,151</u>	<u>\$213.00*</u>
AMD Ryzen 3 4100	<u>11,090</u>	<u>\$64.99</u>
AMD Ryzen 3 PRO 4355GE	<u>10,559</u>	NA
Intel Core i3-10325 @ 3.90GHz	<u>10,354</u>	<u>\$190.10*</u>
Intel Core i3-10320 @ 3.80GHz	<u>10,063</u>	<u>\$139.99</u>
Intel Core i5-10400T @ 2.00GHz	<u>9,957</u>	<u>\$182.00*</u>
Intel Core i3-10305 @ 3.80GHz	<u>9,108</u>	<u>\$167.11</u>
AMD Ryzen 5 3350G	<u>9,048</u>	NA
Intel Core i3-10105F @ 3.70GHz	<u>9,038</u>	<u>\$74.00</u>
Intel Core i3-10100F @ 3.60GHz	<u>8,805</u>	<u>\$69.50</u>
Intel Core i3-10105 @ 3.70GHz	<u>8,675</u>	<u>\$104.70</u>
Intel Core i3-10100E @ 3.20GHz	<u>8,229</u>	<u>\$125.00*</u>
Intel Core i3-10305T @ 3.00GHz	<u>8,136</u>	<u>\$143.00*</u>
Intel Core i3-10300T @ 3.00GHz	<u>8,073</u>	<u>\$193.97*</u>
Intel Core i3-10105T @ 3.00GHz	<u>8,007</u>	<u>\$122.00*</u>
AMD Athlon Gold 3150G	<u>7,112</u>	<u></u>
Intel Pentium Gold G7400	<u>6,797</u>	<u>\$89.99</u>
Intel Pentium Gold G7400T	<u>5,673</u>	<u>\$64.00*</u>
Intel Core i5-4470S @ 3.00GHz	<u>4,742</u>	<u>\$04.00</u> <u>NA</u>
Intel Celeron G6900	4,533	<u>\$79.90</u>
Intel Pentium Gold G6605 @		
4.30GHz	<u>4,429</u>	<u>\$145.08*</u>
Intel Pentium Gold G6505 @ 4.20GHz	<u>4,378</u>	<u>\$75.00*</u>
Intel Pentium Gold G6600 @	<u>4,338</u>	<u>\$239.90</u>

AMD Athlon 320GE	<u>4,262</u>	NA
Intel Pentium Gold G6405 @	4 957	<u> </u>
Intel Pentium Gold G6500 @ 4.10GHz	<u>4,170</u>	<u>\$87.99</u>
Intel Celeron N5095 @ 2.00GHz	<u>4,123</u>	NA
Intel Pentium Gold G6500T @ 3.50GHz	<u>4,005</u>	<u>\$75.00*</u>
Intel Celeron G6900T	<u>4,003</u>	<u>\$42.00*</u>
Intel Pentium Gold G6405T @ 3.50GHz	<u>3,746</u>	<u>\$64.00*</u>
Intel Pentium Gold G6505T @ 3.60GHz	<u>3,698</u>	<u>\$90.00*</u>
Intel Pentium Gold G5600T @ 3.30GHz	<u>3,601</u>	NA
Intel Pentium Gold G6400T @ 3.40GHz	<u>3,588</u>	<u>\$64.00*</u>
Intel Celeron G5905 @ 3.50GHz	<u>2,791</u>	<u>\$28.89</u>
Intel Celeron G5925 @ 3.60GHz	<u>2,727</u>	<u>\$44.87</u>
Intel Celeron G4950 @ 3.30GHz	<u>2,714</u>	<u>\$119.99*</u>
Intel Celeron G5900T @ 3.20GHz	<u>2,620</u>	<u>\$42.00*</u>
AMD Athlon II X4 557	<u>2,567</u>	NA
Intel Celeron G5920 @ 3.50GHz	<u>2,482</u>	<u>\$39.91</u>
AMD Athlon X4 730	<u>2,278</u>	NA
Intel Celeron J3455E @ 1.50GHz	<u>2,193</u>	NA
AMD A8-7690K	<u>2,157</u>	NA
Intel Celeron G5905T @ 3.30GHz	<u>2,070</u>	<u>\$42.00*</u>
AMD Athlon X4 530	<u>1,786</u>	NA
AMD Athlon X2 450	<u>1,295</u>	NA
Intel Core i5-4470 @ 3.30GHz	<u>1,180</u>	NA

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