

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																																																																		
<div> <div> </div> <div> <div>CPUS</div> </div> </div> <div> <div> <div>High End</div> <div>High Mid Range</div> <div>Low Mid Range</div> <div>Low End</div> </div> <div> <div>Best Value (On Market)</div> <div>Best Value XY Scatter</div> <div>Best Value (All time)</div> </div> </div> <div> <div> <div>New Desktop</div> <div>New Laptop</div> </div> <div> <div>Single Thread</div> <div>Systems with Multiple CPUs</div> <div>Overclocked</div> <div>Power Performance</div> <div>CPU Mark by Socket Type</div> <div>Cross-Platform CPU Performance</div> </div> </div> <div> <div> <div>CPU Mega List</div> <div>Search Model</div> </div> <div> <div>0</div> </div> </div>	<div> <div>PassMark - CPU Mark</div> <div>Desktop CPU Performance</div> <div>Updated 19th of November 2020</div> </div> <table> <tr> <th>CPU</th><th>CPU Mark</th><th>Price (USD)</th></tr> <tr> <td>AMD Ryzen Threadripper PRO 3995WX</td><td>88,323</td><td>NA</td></tr> <tr> <td>AMD Ryzen Threadripper 3990X</td><td>80,721</td><td>\$3,849.99</td></tr> <tr> <td>AMD Ryzen Threadripper PRO 3975WX</td><td>66,108</td><td>NA</td></tr> <tr> <td>AMD Ryzen Threadripper 3970X</td><td>64,205</td><td>\$2,288.59</td></tr> <tr> <td>AMD Ryzen Threadripper 3960X</td><td>55,382</td><td>\$1,349.99</td></tr> <tr> <td>AMD Ryzen 9 5950X</td><td>46,757</td><td>\$799.00*</td></tr> <tr> <td>AMD Ryzen Threadripper PRO 3955WX</td><td>42,095</td><td>NA</td></tr> <tr> <td>AMD Ryzen 9 5900X</td><td>39,912</td><td>\$549.99</td></tr> <tr> <td>AMD Ryzen 9 3950X</td><td>39,259</td><td>\$709.99</td></tr> <tr> <td>AMD Ryzen Threadripper PRO 3945WX</td><td>34,884</td><td>NA</td></tr> <tr> <td>Intel Core i9-10980XE @ 3.00GHz</td><td>34,296</td><td>\$817.50</td></tr> <tr> <td>AMD Ryzen 9 3900XT</td><td>33,099</td><td>\$469.99</td></tr> <tr> <td>AMD Ryzen 9 3900X</td><td>32,864</td><td>\$449.99</td></tr> <tr> <td>Intel Core i9-9980XE @ 3.00GHz</td><td>32,010</td><td>\$1,136.04</td></tr> <tr> <td>AMD Ryzen Threadripper 2990WX</td><td>31,991</td><td>\$1,799.00</td></tr> <tr> <td>Intel Core i9-9990XE @ 4.00GHz</td><td>31,941</td><td>NA</td></tr> <tr> <td>Intel Xeon W-3175X @ 3.10GHz</td><td>31,814</td><td>\$3,053.84</td></tr> <tr> <td>AMD Ryzen 9 PRO 3900</td><td>31,800</td><td>NA</td></tr> <tr> <td>Intel Core i9-9960X @ 3.10GHz</td><td>31,554</td><td>\$859.07</td></tr> <tr> <td>AMD Ryzen 9 3900</td><td>30,860</td><td>NA</td></tr> <tr> <td>AMD Ryzen Threadripper 2950X</td><td>30,069</td><td>\$589.99</td></tr> </table>			CPU	CPU Mark	Price (USD)	AMD Ryzen Threadripper PRO 3995WX	88,323	NA	AMD Ryzen Threadripper 3990X	80,721	\$3,849.99	AMD Ryzen Threadripper PRO 3975WX	66,108	NA	AMD Ryzen Threadripper 3970X	64,205	\$2,288.59	AMD Ryzen Threadripper 3960X	55,382	\$1,349.99	AMD Ryzen 9 5950X	46,757	\$799.00*	AMD Ryzen Threadripper PRO 3955WX	42,095	NA	AMD Ryzen 9 5900X	39,912	\$549.99	AMD Ryzen 9 3950X	39,259	\$709.99	AMD Ryzen Threadripper PRO 3945WX	34,884	NA	Intel Core i9-10980XE @ 3.00GHz	34,296	\$817.50	AMD Ryzen 9 3900XT	33,099	\$469.99	AMD Ryzen 9 3900X	32,864	\$449.99	Intel Core i9-9980XE @ 3.00GHz	32,010	\$1,136.04	AMD Ryzen Threadripper 2990WX	31,991	\$1,799.00	Intel Core i9-9990XE @ 4.00GHz	31,941	NA	Intel Xeon W-3175X @ 3.10GHz	31,814	\$3,053.84	AMD Ryzen 9 PRO 3900	31,800	NA	Intel Core i9-9960X @ 3.10GHz	31,554	\$859.07	AMD Ryzen 9 3900	30,860	NA	AMD Ryzen Threadripper 2950X	30,069	\$589.99
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CPU Benchmarks

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AMD vs Intel
Market Share

Year on Year
Performance

Intel Core i9-10940X @ 3.30GHz	29,780	\$814.99
AMD Ryzen 7 5800X	28,779	\$449.99
AMD Ryzen Threadripper 2920X	25,311	\$709.99*
Intel Core i9-10920X @ 3.50GHz	26,318	\$644.00
AMD Ryzen Threadripper 2920X	25,687	\$709.99*
Intel Core i9-9920X @ 3.50GHz	25,352	\$650.00*
Intel Core i9-10900K @ 3.70GHz	24,226	\$579.99
AMD Ryzen 7 3800XT	23,966	\$378.00
Intel Core i9-10900KF @ 3.70GHz	23,717	\$545.00
AMD Ryzen 7 3800X	23,354	\$339.99
Intel Core i9-10850K @ 3.60GHz	23,333	\$449.99
AMD Ryzen 7 3700X	22,823	\$304.99
Intel Xeon W-2255 @ 3.70GHz	22,687	\$778.00*
Intel Core i9-10900X @ 3.70GHz	22,683	\$584.99
Intel Core i9-10910 @ 3.60GHz	22,289	NA
AMD Ryzen 5 5600X	22,162	\$299.00*
Intel Core i9-9900X @ 3.50GHz	21,908	\$574.62
AMD Ryzen 7 PRO 3700	21,904	\$279.99
Intel Core i9-10900F @ 2.80GHz	21,481	\$423.00
AMD Ryzen 7 PRO 4750G	21,304	\$289.00*
Intel Core i9-10900 @ 2.80GHz	21,301	\$479.00
AMD Ryzen 7 4700G	21,164	NA
AMD Ryzen Threadripper 2990X	20,885	NA
AMD Ryzen 7 PRO 4700G	20,848	NA
AMD Ryzen 7 4700GE	20,671	NA
AMD Ryzen 7 PRO 4750GE	20,456	NA
Intel Core i9-9820X @ 3.30GHz	20,423	\$536.00
Intel Core i7-10700K @ 3.80GHz	19,689	\$404.97
Intel Core i7-10700KF @ 3.80GHz	19,516	\$380.50
Intel Core i9-9900KS @ 4.00GHz	19,460	\$1,965.00*
Intel Core i9-9900KF @ 3.60GHz	18,939	\$379.99
AMD Ryzen 5 3600XT	18,935	\$247.99
Intel Core i9-9900K @ 3.60GHz	18,883	\$369.95
AMD Ryzen 5 3600X	18,324	\$239.99
Intel Core i7-9800X @ 3.80GHz	18,274	\$504.55
AMD Ryzen 5 PRO 3600	17,888	NA
AMD Ryzen 5 3600	17,862	\$258.65
AMD Ryzen 7 2700X	17,589	\$217.91
Intel Core i7-10700 @ 2.90GHz	17,460	\$344.50
Intel Core i7-10700F @ 2.90GHz	17,238	\$310.00
AMD Ryzen 5 4600G	17,197	NA
Intel Core i9-9900 @ 3.10GHz	17,163	\$382.80
AMD Ryzen 7 PRO 2700X	16,846	NA
AMD Ryzen 5 PRO 4650G	16,785	\$259.99
AMD Ryzen 5 PRO 4650GE	16,689	NA
Intel Core i9-10900T @ 1.90GHz	16,588	\$439.00*
AMD Ryzen 5 4600GE	16,377	NA
AMD Ryzen 5 PRO 4400G	16,212	NA
AMD Ryzen 7 2700	15,716	\$369.75



AMD Ryzen 7 PRO 2700	15,049	NA
Intel Core i5-10600KF @ 4.10GHz	14,963	\$379.36
AMD Ryzen 7 2700X	14,951	\$389.99
AMD Ryzen 7 2700E	14,657	NA
Intel Core i5-10600K @ 4.10GHz	14,650	\$267.66
Intel Core i7-9700K @ 3.60GHz	14,621	\$289.99
Intel Core i5-10600 @ 3.30GHz	14,092	\$224.00
AMD Ryzen 5 2600X	14,071	\$165.89
Intel Core i7-9700F @ 3.00GHz	13,824	\$265.95
Intel Core i9-9900T @ 2.10GHz	13,664	\$439.00*
AMD Ryzen 5 PRO 2600	13,662	NA
Intel Core i7-9700 @ 3.00GHz	13,571	\$285.89
AMD Ryzen 5 3500X	13,391	NA
Intel Core i5-10500 @ 3.10GHz	13,348	\$229.99
AMD Ryzen 5 2600	13,220	\$139.99
AMD Ryzen 3 3300X	12,788	\$199.99
AMD Ryzen 5 3500	12,779	NA
Intel Core i7-9700E @ 2.60GHz	12,754	\$323.00*
Intel Core i5-10400F @ 2.90GHz	12,698	\$170.99
Intel Core i5-10400 @ 2.90GHz	12,594	\$179.99
Intel Core i7-10700T @ 2.00GHz	12,505	\$323.00*
AMD Ryzen 3 4300GE	11,878	NA
AMD Ryzen 3 3100	11,757	\$138.75
AMD Ryzen 3 4300G	11,714	NA
AMD Ryzen 3 PRO 4350GE	11,499	NA
Intel Core i5-10600T @ 2.40GHz	11,330	\$213.00*
AMD Ryzen 3 PRO 4350G	11,291	NA
Intel Core i5-9600KF @ 3.70GHz	10,917	\$202.50
Intel Core i7-9700T @ 2.00GHz	10,885	\$323.00*
Intel Core i5-9600K @ 3.70GHz	10,873	\$194.99
Intel Core i7-8700T @ 2.40GHz	10,858	\$296.00
Intel Core i5-10500T @ 2.30GHz	10,774	\$192.00*
Intel Core i5-9600 @ 3.10GHz	10,741	\$236.09
Intel Core i7-9700TE @ 1.80GHz	10,680	\$323.00*
Intel Core i5-10400T @ 2.00GHz	10,453	\$182.00*
Intel Core i5-9500F @ 3.00GHz	10,294	\$217.81
Intel Core i5-9500 @ 3.00GHz	9,933	\$206.29
Intel Core i5-8600 @ 3.10GHz	9,827	\$237.95
AMD Ryzen 5 3350GE	9,684	NA
AMD Ryzen 5 2500X	9,671	NA
AMD Ryzen 5 PRO 3350GE	9,643	NA
Intel Core i5-9400F @ 2.90GHz	9,599	\$145.90
AMD Ryzen 5 PRO 3350G	9,582	NA
Intel Core i5-9400 @ 2.90GHz	9,560	\$160.00
AMD Ryzen 5 PRO 3400G	9,508	NA
Intel Core i5-8500 @ 3.00GHz	9,506	\$299.99
Intel Core i5-9600T @ 2.30GHz	9,406	\$213.00*
AMD Ryzen 5 3400G	9,401	\$149.99
Intel Core i3-10300 @ 3.70GHz	9,322	\$182.52

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Intel Core i7-9850HL @ 1.90GHz	9,112	\$395.00*
Intel Core i3-10100F @ 3.60GHz	9,049	\$109.99
Intel Core i5-10200T @ 2.30GHz	8,860	\$366.99*
Intel Core i5-8600T @ 2.30GHz	8,860	\$366.99*
AMD Ryzen 5 2400G	8,770	\$261.00
AMD Ryzen 5 3400GE	8,545	NA
AMD Ryzen 5 PRO 2400G	8,457	NA
Intel Core i3-10300T @ 3.00GHz	8,355	\$143.00*
AMD Ryzen 5 PRO 3400GE	8,219	NA
Intel Core i5-9500T @ 2.20GHz	8,164	\$192.00*
AMD Ryzen Embedded V1756B	8,133	NA
Intel Core i3-9350KF @ 4.00GHz	7,913	\$164.99
Intel Core i5-8500T @ 2.10GHz	7,910	\$217.38
Intel Core i3-9350K @ 4.00GHz	7,797	\$184.00*
Intel Core i5-9400T @ 1.80GHz	7,788	\$182.00*
AMD Ryzen 3 2300X	7,777	\$178.09*
AMD Athlon Gold PRO 3150G	7,702	NA
AMD Ryzen 5 PRO 2400GE	7,624	NA
AMD Ryzen 5 2400GE	7,619	NA
AMD Athlon Gold PRO 3150GE	7,578	NA
AMD Ryzen 3 3200GE	7,555	NA
Intel Core i5-8400T @ 1.70GHz	7,365	\$199.82
Intel Core i3-9320 @ 3.70GHz	7,358	\$162.00*
Intel Core i3-9300 @ 3.70GHz	7,267	\$189.99*
AMD Ryzen 3 3200G	7,242	\$94.42
AMD Ryzen 3 PRO 3200G	7,056	NA
Intel Core i3-9100F @ 3.60GHz	6,812	\$109.99
AMD Ryzen 3 2200G	6,769	\$250.69
Intel Core i3-9100 @ 3.60GHz	6,720	\$119.99
AMD Ryzen 3 PRO 2200G	6,632	NA
AMD Ryzen 3 PRO 2200GE	6,433	NA
Intel Core i3-9300T @ 3.20GHz	6,367	\$143.00*
Intel Core i3-8300 @ 3.70GHz	6,317	\$159.87
AMD Ryzen 3 2200GE	6,292	NA
Intel Core i3-8300T @ 3.20GHz	5,827	\$154.10
Intel Core i3-9100T @ 3.10GHz	5,574	\$122.00*
AMD Ryzen Embedded V1404I	5,491	NA
Intel Core i5-4670R @ 3.00GHz	5,335	\$276.00*
Intel Core i3-8100T @ 3.10GHz	5,319	\$132.99
AMD Athlon 300GE	4,905	NA
Intel Core i5-4470S @ 3.00GHz	4,742	NA
AMD Athlon Silver PRO 3125GE	4,701	NA
AMD Athlon 240GE	4,628	\$107.30
AMD Ryzen Embedded R1606G	4,544	NA
AMD Athlon 3000G	4,467	\$54.99*
AMD Athlon PRO 300GE	4,337	NA
AMD Ryzen 3 PRO 2100GE	4,308	NA
Intel Pentium Gold G6400 @ 4.00GHz	4,243	\$64.99*
Intel Pentium Gold G6500 @ 4.10GHz	4,208	\$75.00*

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