

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.

| CPUS | CPU Mark | Price Performance | Sorted by Date |
|--|-----------------------------------|-------------------|----------------|
| PassMark - CPU Mark Desktop CPU Performance Updated 28th of November 2023 | | | |
| CPUS | CPU | CPU Mark | Price (USD) |
| High End | AMD Ryzen Threadripper PRO 7950WX | 156 365 | \$9 999.00* |
| High Mid Range | AMD Ryzen Threadripper PRO 7945WX | 141 856 | NA |
| Low Mid Range | AMD Ryzen Threadripper 7980X | 137 775 | NA |
| Low End | AMD Ryzen Threadripper PRO 7275WX | 100 760 | NA |
| Best Value (On Market) | AMD Ryzen Threadripper PRO 7950WX | 97 155 | \$5 699.99 |
| Best Value XY Scatter | AMD Ryzen Threadripper PRO 7965WX | 84 785 | NA |
| Best Value (All time) | AMD Ryzen Threadripper PRO 5975WX | 75 808 | \$2 699.99 |
| New Desktop | AMD Ryzen Threadripper PRO 7950WX | 66 140 | \$1 599.99 |
| New Laptop | AMD Ryzen 9 7950X | 63 200 | \$540.99 |
| Single Thread | AMD Ryzen 9 7950X3D | 62 626 | \$661.00 |
| Systems with Multiple CPUs | Intel Core i9-13900KS | 61 850 | \$890.99 |
| Overclocked | Intel Core i9-14900K | 61 110 | \$599.00* |
| Power Performance | AMD Ryzen Threadripper PRO 7955WX | 61 073 | NA |
| CPU Mark by Socket Type | Intel Core i9-14900K | 61 052 | NA |
| Cross-Platform CPU Performance | Intel Core i9-13900K | 59 563 | \$569.97 |
| Top Gaming CPUs | Intel Core i7-14700K | 58 863 | \$546.49 |
| CPU Mega List | Intel Core i7-14700K | 53 977 | \$384.00* |
| Search Model | Intel Core i7-14700K | 53 660 | \$469.00* |
| Compare | Intel Core i9-13900E | 52 433 | \$526.00 |
| Common | AMD Ryzen 9 7900X | 52 138 | \$490.00 |
| Most Benchmarked | AMD Ryzen Threadripper PRO 7845WX | 50 835 | NA |
| AMD vs Intel Market Share Year on Year Performance | AMD Ryzen 9 7900X3D | 50 619 | \$561.00 |
| | AMD Ryzen Threadripper PRO 7955WX | 50 606 | \$1 099.99 |
| | AMD Ryzen 9 7900 | 49 679 | \$419.99 |
| | Apple M2 Ultra 24 Core | 48 667 | NA |
| | Intel Core i9-13900 | 47 626 | \$549.99 |
| | Intel Core i7-13700K | 46 703 | \$407.99 |
| | Intel Core i7-13700K | 46 458 | \$390.99 |
| | Intel Core i7-13790F | 46 110 | NA |
| | Intel Core i9-12900KS | 44 221 | \$399.99 |
| | Intel Core i9-13900T | 43 620 | \$549.00* |
| | Intel Core i9-12900K | 41 404 | \$362.99 |
| | Intel Core i9-12900KF | 41 238 | \$368.99 |
| | Apple M1 Ultra 20 Core | 40 886 | NA |
| | AMD Ryzen Threadripper PRO 7955WX | 40 585 | NA |
| | Intel Core i5-14600K | 39 796 | \$319.00* |
| | Intel Core i7-13700F | 39 711 | \$360.99 |
| | Intel Core i5-14600KF | 39 720 | \$281.00* |
| | Intel Core i7-13700 | 38 252 | \$349.99 |
| | Intel Core i5-13600K | 38 272 | \$309.99 |
| | Intel Core i5-13600KF | 38 128 | \$282.99 |
| | Intel Core i9-12900F | 37 655 | \$425.00 |
| | AMD Ryzen 7 7700X | 36 188 | \$315.76 |
| | AMD Ryzen 7 7700 | 34 879 | \$319.79 |
| | AMD Ryzen 9 PRO 5845 | 34 730 | NA |
| | Intel Core i7-12700K | 34 722 | \$408.00* |
| | AMD Ryzen 7 7800X3D | 34 512 | \$439.00 |
| | AMD Ryzen 9 5900 | 34 506 | NA |
| | Intel Core i7-12700KF | 34 476 | \$276.00 |
| | Intel Core i9-12900 | 34 292 | \$449.99 |
| | Intel Core i5-13600 | 32 969 | \$255.00* |
| | Intel Core i5-13500 | 32 348 | \$247.99 |
| | Intel Xeon W-3295M @ 2.70GHz | 32 625 | \$6 363.00* |
| | Intel Core i7-12700F | 30 899 | \$264.99 |
| | Intel Core i7-12700 | 30 885 | \$270.49 |
| | Intel Core i9-12900T | 30 263 | \$489.00* |
| | Intel Core i7-12700T | 29 545 | \$384.00* |
| | Intel Core i7-12700E | 29 289 | \$344.00* |
| | AMD Ryzen 5 7600X | 28 704 | \$218.00 |
| | AMD Ryzen 7 8800X3D | 28 248 | \$269.56 |
| | Intel Xeon W-2275 @ 3.30GHz | 27 852 | \$2 068.00* |
| | Intel Core i5-12600K | 27 792 | \$189.99 |
| | Intel Core i5-13490F | 27 783 | \$263.66 |
| | AMD Ryzen 5 7600 | 27 478 | \$219.99 |
| | Intel Core i5-12600KF | 27 456 | \$219.64 |
| | Intel Core i5-13600T | 26 876 | \$255.00* |
| | AMD Ryzen 7 5700X | 26 757 | \$164.99 |
| | AMD Ryzen 5 7500F | 26 716 | NA |
| | AMD Ryzen 7 PRO 5845 | 26 162 | NA |
| | Intel Xeon W-3323 @ 3.50GHz | 25 875 | \$849.00* |
| | AMD Ryzen 7 6800 | 25 842 | NA |
| | Intel Xeon W-1390P @ 3.50GHz | 25 451 | NA |
| | Intel Core i5-13400E | 25 426 | \$164.99 |
| | Intel Core i9-11900K @ 3.50GHz | 25 408 | \$318.99 |
| | Intel Core i9-11900KF @ 3.50GHz | 25 209 | \$415.99 |
| | Intel Core i5-13400 | 25 262 | \$228.26 |
| | Intel Core i7-11700K @ 3.60GHz | 24 669 | \$276.10 |
| | AMD Ryzen 7 5700G | 24 655 | \$167.86 |
| | Intel Xeon W-1370P @ 3.60GHz | 24 540 | \$508.99 |
| | AMD Ryzen 7 PRO 5750G | 24 438 | NA |
| | Intel Core i5-13500T | 24 255 | \$232.00* |
| | AMD Ryzen 7 5700 | 24 245 | NA |
| | Intel Core i7-11700KF @ 3.60GHz | 24 047 | \$262.99 |
| | Intel Xeon W-1370 @ 2.80GHz | 23 449 | \$468.99 |
| | Intel Core i9-11900KB @ 3.30GHz | 23 070 | \$538.00* |
| | Intel Core i9-11900 @ 2.50GHz | 23 002 | \$419.99 |
| | Intel Core i7-11700B @ 3.20GHz | 22 801 | NA |
| | Intel Core i9-11900E @ 2.80GHz | 22 698 | \$418.99 |
| | AMD Ryzen 7 5700GE | 22 196 | NA |
| | AMD Ryzen 5 5600X3D | 22 109 | NA |
| | AMD Ryzen Threadripper 1920 | 22 066 | NA |
| | AMD Ryzen 7 PRO 5750GE | 22 038 | NA |
| | Apple M1 Max 10 Core 3200 MHz | 22 033 | NA |