

CPU Benchmarks

Over 1,000,000 CPUs Benchmarked


New Laptop CPU Performance


This chart comparing performance of CPUs designed for laptop and portable machines is made using thousands of [PerformanceTest](#) benchmark results and is updated daily.

Notes:

- While we try to keep this chart mainly desktop CPU free, there might be some desktop processors in the list. This is because the classification of a laptop CPU is determined at result submission time by the user of PerformanceTest. Some users incorrectly clicked the "Laptop" check box.
- The chart shows only CPUs that had their benchmark first submitted within the last 36 months. Older laptop CPUs may not appear.




 CPUS

 High End

High Mid Range


Low Mid Range

Low End


 Best Value (On Market)

Best Value XY Scatter

Best Value (All time)

 New Desktop

New Laptop

 Single Thread


Systems with Multiple CPUs

Overclocked

Power Performance

CPU Mark by Socket Type

Cross-Platform CPU Performance

 CPU Mega List

Search Model

CPU Mark

Price Performance

Sorted by Date

PassMark - CPU Mark

Laptop & Portable CPU Performance

Updated 4th of January 2022

| CPU | CPU Mark | Price (USD) |
|--|------------------------|---------------------------|
| Intel Xeon W-11955M @ 2.60GHz | 24,358 | \$623.00* |
| AMD Ryzen 9 5980HX | 23,584 | NA |
| Apple M1 Pro 10 Core 3200 MHz | 23,553 | NA |
| Apple M1 Max 10 Core 3200 MHz | 23,468 | NA |
| Intel Core i9-11980HK @ 2.60GHz | 23,386 | \$583.00* |
| AMD Ryzen 9 5900HX | 23,352 | NA |
| Intel Core i9-11950H @ 2.60GHz | 22,735 | \$556.00* |
| AMD Ryzen 9 5900HS | 22,359 | NA |
| Intel Core i9-11900H @ 2.50GHz | 21,919 | \$546.00* |
| Intel Core i7-11850H @ 2.50GHz | 21,706 | \$395.00* |
| AMD Ryzen 7 5800H | 21,653 | NA |
| Intel Core i7-11800H @ 2.30GHz | 21,631 | \$395.00* |
| AMD Ryzen 9 5980HS | 21,517 | NA |
| AMD Ryzen 7 5800HS Creator Edition | 21,026 | NA |
| AMD Ryzen 7 5800HS | 20,998 | NA |
| AMD Ryzen 9 5900H | 20,960 | NA |
| AMD Ryzen 9 4900HS | 19,508 | NA |
| AMD Ryzen 9 4900H | 19,291 | NA |
| Intel Xeon W-11855M @ 3.20GHz | 19,179 | \$450.00* |
| AMD Ryzen 7 4800H | 19,130 | NA |
| AMD Ryzen 7 5800U | 19,085 | NA |
| AMD Ryzen 7 4800HS | 18,885 | NA |



Compare ⁰



CPU Benchmarks



Most
Benchmarked



AMD vs Intel
Market Share

Year on Year

Performance

AD

Wspólne tworzenie jutra.

Najnowsza usługa Creative Cloud dla zespołów jest już dostępna.

Kup teraz

| | | |
|---|------------------------|-----------------------------|
| AMD Ryzen 7 4800HS | 18,865 | NA |
| Apple M1 Pro 8 Core 3200 MHz | 18,190 | NA |
| | | |
| | | |
| AMD Ryzen 5 5600H | 17,374 | NA |
| AMD Ryzen 7 4800U | 17,056 | NA |
| Intel Core i7-10700E @ 2.90GHz | 17,020 | \$330.00* |
| Intel Core i5-11500H @ 2.90GHz | 16,788 | \$250.00* |
| Intel Core i9-10980HK @ 2.40GHz | 16,477 | \$583.00* |
| | | |
| AMD Ryzen 7 5700U | 16,408 | NA |
| Intel Core i7-10700TE @ 2.00GHz | 16,332 | \$330.00* |
| Intel Xeon W-10885M @ 2.40GHz | 15,950 | \$623.00* |
| Intel Core i5-11400H @ 2.70GHz | 15,941 | \$250.00* |
| Intel Core i9-10885H @ 2.40GHz | 15,919 | \$556.00* |
| Intel Core i7-11600H @ 2.90GHz | 15,909 | \$395.00* |
| Intel Xeon E-2286M @ 2.40GHz | 15,732 | \$1,373.18* |
| AMD Ryzen 5 5600U | 15,706 | NA |
| AMD Ryzen 7 PRO 4750U | 15,537 | NA |
| Intel Core i7-10875H @ 2.30GHz | 15,533 | \$450.00* |
| AMD Ryzen 5 PRO 5650U | 15,485 | NA |
| Intel Core i7-10870H @ 2.20GHz | 15,282 | \$417.00* |
| Apple M1 8 Core 3200 MHz | 15,109 | NA |
| Intel Core i9-10880H @ 2.30GHz | 15,064 | NA |
| Intel Core i9-9980HK @ 2.40GHz | 14,854 | \$583.00* |
| AMD Ryzen 5 PRO 4400GE | 14,795 | NA |
| AMD Ryzen 5 4600H | 14,779 | NA |
| AMD Ryzen 5 4600HS | 14,695 | NA |
| Intel Core i5-11260H @ 2.60GHz | 14,595 | \$250.00* |
| Intel Core i9-9880H @ 2.30GHz | 14,052 | \$556.00* |
| AMD Ryzen 7 4700U | 13,715 | NA |
| AMD Ryzen 5 4600U | 13,661 | NA |
| AMD Ryzen 5 5500U | 13,273 | NA |
| Intel Xeon W-10855M @ 2.80GHz | 13,083 | \$450.00* |
| AMD Ryzen 5 PRO 4650U | 12,963 | NA |
| Intel Core i7-10750H @ 2.60GHz | 12,450 | NA |
| Intel Core i7-8700B @ 3.20GHz | 12,425 | \$303.00* |
| Intel Core i7-11370H @ 3.30GHz | 12,399 | \$426.00* |
| Intel Core i7-11375H @ 3.30GHz | 12,305 | \$482.00* |
| Intel Core i7-10850H @ 2.70GHz | 12,206 | \$395.00* |
| AMD Ryzen 5 PRO 4500U | 12,049 | NA |
| AMD Ryzen 3 PRO 5450U | 12,047 | NA |
| Intel Xeon E-2276M @ 2.80GHz | 12,000 | \$450.00* |
| AMD Ryzen 3 5400U | 11,872 | NA |
| Intel Core i5-10500H @ 2.50GHz | 11,809 | \$250.00* |
| Intel Core i7-1195G7 @ 2.90GHz | 11,673 | \$426.00* |
| Intel Core i7-1185G7E @ 2.80GHz | 11,645 | \$431.00* |
| Intel Core i7-9850H @ 2.60GHz | 11,538 | \$1,305.76* |
| Intel Core i7-9750HF @ 2.60GHz | 11,531 | \$395.00* |
| Intel Core i7-9750H @ 2.60GHz | 11,246 | \$960.00* |
| Intel Core i5-11300H @ 3.10GHz | 11,226 | \$309.00* |
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CPU Benchmarks ▼

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|---|------------------------|---------------------------|
| Intel Core i5-11320H @ 3.20GHz | 11,224 | \$309.00* |
| AMD Ryzen 5 4500U | 11,157 | NA |
| AMD Ryzen 5 4500U | 11,157 | NA |
| Intel Core i7-11390H @ 3.40GHz | 10,922 | \$426.00* |
| Intel Core i7-9700TE @ 1.80GHz | 10,722 | \$323.00* |
| Intel Core i7-1165G7 @ 2.80GHz | 10,653 | \$426.00* |
| Intel Core i5-1145G7 @ 2.60GHz | 10,652 | NA |
| Intel Core i5-1155G7 @ 2.50GHz | 10,572 | \$309.00* |
| Intel Core i7-1160G7 @ 1.20GHz | 10,316 | \$426.00* |
| Intel Core i7-1068NG7 @ 2.30GHz | 10,241 | \$426.00* |
| Intel Core i5-1130G7 @ 1.10GHz | 10,226 | \$309.00* |
| Intel Core i5-1135G7 @ 2.40GHz | 10,177 | \$309.00* |
| AMD Ryzen 3 PRO 4450U | 10,141 | NA |
| AMD Ryzen 3 5300U | 10,096 | NA |
| Intel Core i7-10710U @ 1.10GHz | 10,091 | \$644.99* |
| Intel Core i3-1125G4 @ 2.00GHz | 10,018 | NA |
| Intel Core i5-1038NG7 @ 2.00GHz | 9,724 | \$320.00* |
| Intel Core i5-9400F @ 2.90GHz | 9,542 | \$149.99 |
| Intel Core i5-8500B @ 3.00GHz | 9,474 | \$192.00* |
| Intel Core i5-9500TE @ 2.20GHz | 9,212 | \$192.00* |
| Intel Core i7-9850HL @ 1.90GHz | 9,112 | \$395.00* |
| Intel Core i5-10400H @ 2.60GHz | 9,022 | \$250.00* |
| Intel Core i7-1065G7 @ 1.30GHz | 8,771 | \$426.00* |
| Intel Core i5-10300H @ 2.50GHz | 8,762 | \$250.00* |
| Intel Core i7-8569U @ 2.80GHz | 8,494 | \$431.00* |
| Intel Core i5-10200H @ 2.40GHz | 8,471 | \$250.00* |
| Intel Core i5-1035G7 @ 1.20GHz | 8,372 | \$320.00* |
| Intel Core i5-9400H @ 2.50GHz | 8,361 | \$250.00* |
| Intel Core i7-10810U @ 1.10GHz | 8,333 | \$443.00* |
| AMD Ryzen 7 3750H | 8,288 | NA |
| Intel Core i5-1035G4 @ 1.10GHz | 8,249 | \$309.00* |
| Intel Core i7-8557U @ 1.70GHz | 8,225 | \$431.00* |
| Intel Core i5-8279U @ 2.40GHz | 8,136 | \$320.00* |
| Intel Core i5-8269U @ 2.60GHz | 8,055 | \$320.00* |
| AMD Ryzen 5 3550H | 8,044 | NA |
| Intel Core i5-8260U @ 1.60GHz | 7,857 | \$439.99* |
| Intel Core i5-9300H @ 2.40GHz | 7,853 | \$250.00* |
| Intel Core i5-1035G1 @ 1.00GHz | 7,801 | \$297.00* |
| AMD Ryzen 5 3580U | 7,797 | NA |
| Intel Core i5-9300HF @ 2.40GHz | 7,671 | \$250.00* |
| AMD Ryzen 7 2800H | 7,656 | NA |
| Intel Core i5-8257U @ 1.40GHz | 7,652 | \$320.00* |
| AMD Ryzen 3 4300U | 7,599 | NA |
| AMD Ryzen 7 3780U | 7,549 | NA |
| AMD Ryzen 5 2600H | 7,537 | NA |
| Intel Core i3-10100T @ 3.00GHz | 7,498 | \$122.00* |
| Intel Core i7-7820EQ @ 3.00GHz | 7,453 | \$378.00* |
| AMD Ryzen 7 3700U | 7,348 | NA |
| AMD Ryzen 7 PRO 3700U | 7,328 | NA |

CPU Benchmarks

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|--|-----------------------|---------------------------|
| Intel Core i7-1060NG7 @ 1.20GHz | 7,316 | NA |
| AMD Ryzen 5 3500U | 7,118 | NA |
| Intel Core i7-1060NG7 @ 1.20GHz | 7,316 | NA |
| AMD Ryzen 5 PRO 3500U | 6,999 | NA |
| Intel Core i7-10510U @ 1.80GHz | 6,880 | \$409.00* |
| AMD Ryzen 5 3450U | 6,855 | NA |
| Intel Core i5-10310U @ 1.70GHz | 6,703 | \$297.00* |
| Intel Core i7-8665UE @ 1.70GHz | 6,587 | \$409.00* |
| Intel Core i7-8665U @ 1.90GHz | 6,516 | \$704.49* |
| Intel Core i5-10210U @ 1.60GHz | 6,462 | \$702.62* |
| Intel Core i5-8365U @ 1.60GHz | 6,390 | \$539.07* |
| Intel Core i3-1115G4 @ 3.00GHz | 6,363 | \$281.00* |
| Intel Core i3-8100B @ 3.60GHz | 6,321 | \$133.00* |
| Intel Core i5-1030NG7 @ 1.10GHz | 6,252 | NA |
| Intel Core i7-8565UC @ 1.80GHz | 6,187 | NA |
| AMD Ryzen 3 PRO 3300U | 6,033 | NA |
| Intel Core i5-8265UC @ 1.60GHz | 5,988 | NA |
| AMD Ryzen 3 3350U | 5,871 | NA |
| AMD Ryzen 3 3300U | 5,843 | NA |
| Intel Core i5-7440EQ @ 2.90GHz | 5,711 | \$250.00* |
| Intel Core i5-8365UE @ 1.60GHz | 5,555 | \$297.00* |
| Intel Pentium Gold 7505 @ 2.00GHz | 5,339 | NA |
| Intel Core i7-10510Y @ 1.20GHz | 5,289 | \$403.00* |
| Intel Core i3-1005G1 @ 1.20GHz | 5,191 | \$281.00* |
| Intel Core i5-10210Y @ 1.00GHz | 4,836 | NA |
| Intel Core i5-7442EQ @ 2.10GHz | 4,834 | \$250.00* |
| Intel Pentium 6805 @ 1.10GHz | 4,735 | \$161.00* |
| Intel Core i5-6442EQ @ 1.90GHz | 4,598 | \$250.00* |
| AMD Athlon Silver 3050GE | 4,545 | NA |
| AMD Athlon 220GE | 4,518 | \$109.99 |
| Intel Core i3-9100TE @ 2.20GHz | 4,501 | \$122.00* |
| Intel Core i5-6350HQ @ 2.30GHz | 4,255 | \$306.00* |
| Intel Pentium Silver N6005 @ 2.00GHz | 4,143 | NA |
| Intel Core i3-8145UE @ 2.20GHz | 4,133 | \$281.00* |
| AMD Athlon Gold 3150U | 4,056 | NA |
| Intel Core i3-10110U @ 2.10GHz | 4,047 | \$434.17* |
| Intel Core i3-1000NG4 @ 1.10GHz | 4,018 | NA |
| AMD Ryzen 3 3250U | 4,015 | NA |
| AMD Athlon 300U | 4,006 | NA |
| Microsoft ARM SQ1 @ 3.0 GHz | 4,004 | NA |
| AMD Ryzen Embedded R1505G | 3,966 | NA |
| AMD Ryzen 3 3200U | 3,914 | NA |
| AMD A8-7680 | 3,571 | \$50.08* |
| Intel Core i5-L16G7 @ 1.40GHz | 3,442 | \$281.00* |
| Intel Pentium Silver N5020 @ 1.10GHz | 3,404 | NA |
| AMD Ryzen Embedded R1305G | 3,329 | NA |
| Intel Core i3-10110Y @ 1.00GHz | 3,278 | \$287.00* |
| AMD Athlon Silver 3050U | 3,077 | NA |

| | | |
|--|-----------------------|---------------------------|
| AMD Athlon Silver 3050e | 2,941 | NA |
| Intel Celeron N5100 @ 1.10GHz | 2,890 | NA |
| AMD R5 3000 | 2,888 | NA |
| Intel Pentium Silver N5030 @ 1.10GHz | 2,685 | NA |
| AMD 3015e | 2,674 | NA |
| Intel Core i3-7102E @ 2.10GHz | 2,521 | \$225.00* |
| AMD 3020e | 2,508 | NA |
| Intel Celeron N4120 @ 1.10GHz | 2,455 | NA |
| Intel Pentium 6405U @ 2.40GHz | 2,360 | \$161.00* |
| Intel Core i3-6102E @ 1.90GHz | 2,349 | \$225.00* |
| Intel Pentium 5405U @ 2.30GHz | 2,276 | \$161.00* |
| Intel Pentium 4417U @ 2.30GHz | 2,257 | \$161.00* |
| Intel Celeron 6305 @ 1.80GHz | 2,243 | NA |
| Intel Celeron 4305UE @ 2.00GHz | 1,950 | NA |
| Intel Pentium 4425Y @ 1.70GHz | 1,694 | \$161.00* |
| Intel Celeron N4000C @ 1.10GHz | 1,611 | NA |
| Intel Celeron N4020 @ 1.10GHz | 1,595 | NA |
| Intel Celeron 3867U @ 1.80GHz | 1,481 | \$107.00* |
| Intel Celeron 5205U @ 1.90GHz | 1,368 | \$107.00* |
| Intel Celeron 4205U @ 1.80GHz | 1,321 | \$107.00* |
| Intel Celeron 1020M @ 2.10GHz | 1,275 | NA |
| Intel Pentium A1020 @ 2.41GHz | 1,265 | NA |
| AMD R-272F APU | 1,215 | NA |
| AMD A6-9220C | 1,151 | NA |
| AMD PRO A4-4350B | 1,093 | NA |
| AMD A4-9120e | 908 | NA |
| AMD A4-9120C | 894 | NA |

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