

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.

CPU Mark

Price Performance

Sorted by Date



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



CPU Mega List

Search Model



Compare

PassMark - CPU Mark

Laptop & Portable CPU Performance

CPU	CPU Mark	Price (USD)
Intel Xeon E-2286M @ 2.40GHz	18,314	\$623.00*
Intel Core i9-9980HK @ 2.40GHz	17,609	\$583.00*
Intel Core i9-9880H @ 2.30GHz	16,816	\$556.00*
Intel Core i7-8700B @ 3.20GHz	14,802	\$303.00*
Intel Xeon E-2186M @ 2.90GHz	14,526	\$623.00*
Intel Xeon E-2276M @ 2.80GHz	14,422	\$450.00*
Intel Core i9-8950HK @ 2.90GHz	14,219	\$583.00*
Intel Core i7-9850H @ 2.60GHz	14,112	\$395.00*
Intel Xeon E-2176M @ 2.70GHz	13,559	\$450.00*
Intel Core i7-9750H @ 2.60GHz	13,541	\$395.00*
Intel Core i7-10710U @ 1.10GHz	13,107	\$443.00*
Intel Core i7-8850H @ 2.60GHz	12,974	\$395.00*
Intel Core i5-8500B @ 3.00GHz	12,756	\$192.00*
Intel Core i7-8750H @ 2.20GHz	12,401	\$395.00*
Intel Core i7-8559U @ 2.70GHz	12,224	\$952.76
Intel Core i5-9400F @ 2.90GHz	12,107	\$144.99
Intel Core i5-9400H @ 2.50GHz	11,415	\$250.00*
Intel Core i5-8259U @ 2.30GHz	10,998	\$766.15
Intel Core i7-8809G @ 3.10GHz	10,984	NA
Intel Core i7-1065G7 @ 1.30GHz	10,770	NA
Intel Core i5-8257U @ 1.40GHz	10,742	\$320.00*
Intel Core i5-8279U @ 2.40GHz	10,623	\$320.00*

Common
CPU Benchmarks

AMD vs Intel
 Market Share

Intel Core i7-8706G @ 3.10GHz	10,539	NA
Intel Xeon E3-1535M v6 @	10,539	\$699.00*
Intel Core i7-7920HQ @ 3.10GHz	9,991	\$568.00*
Intel Core i7-7820HK @ 2.90GHz	9,954	\$378.00*
Intel Core i5-9300H @ 2.40GHz	9,878	\$250.00*
Intel Core i7-8705G @ 3.10GHz	9,877	\$1,408.75*
Intel Core i7-5850EQ @ 2.70GHz	9,817	\$435.00*
Intel Core i7-8709G @ 3.10GHz	9,780	NA
Intel Core i7-10510U @ 1.80GHz	9,555	\$409.00*
Intel Core i5-1035G7 @ 1.20GHz	9,511	\$320.00*
Intel Core i5-8300H @ 2.30GHz	9,472	\$250.00*
Intel Core i7-7820HQ @ 2.90GHz	9,248	\$378.00*
Intel Core i7-7820EQ @ 3.00GHz	9,144	\$378.00*
Intel Core i5-1035G1 @ 1.00GHz	9,000	\$297.00*
Intel Core i5-8305G @ 2.80GHz	8,947	NA
AMD Ryzen 7 3750H	8,881	NA
AMD Ryzen 7 PRO 2700U	8,877	NA
Intel Core i7-8565U @ 1.80GHz	8,863	NA
Intel Core i5-1035G4 @ 1.10GHz	8,819	\$309.00*
Intel Core i7-8665U @ 1.90GHz	8,815	\$409.00*
Intel Core i7-7700HQ @ 2.80GHz	8,766	\$378.00*
Intel Core i7-8665UE @ 1.70GHz	8,731	\$409.00*
Intel Core i5-10210U @ 1.60GHz	8,722	\$297.00*
Intel Xeon E3-1268L v5 @ 2.40GHz	8,695	\$456.54*
Intel Core i7-8650U @ 1.90GHz	8,693	\$409.99
AMD Ryzen 7 PRO 3700U	8,629	NA
Intel Core i3-8100B @ 3.60GHz	8,544	\$133.00*
AMD Ryzen Embedded V1807B	8,528	NA
AMD Ryzen 7 2800H	8,498	NA
AMD Ryzen 7 3780U	8,427	NA
Intel Core i5-8365U @ 1.60GHz	8,411	\$297.00*
AMD Ryzen 5 PRO 3500U	8,396	NA
AMD Ryzen 5 2600H	8,366	NA
AMD Ryzen 5 3550H	8,350	NA
AMD Ryzen 3 PRO 3200GE	8,250	NA
Intel Core i7-8550U @ 1.80GHz	8,249	NA
AMD Ryzen 5 PRO 2500U	8,202	NA
Intel Core i5-8350U @ 1.70GHz	8,137	\$297.00*
AMD Ryzen 7 3700U	8,023	NA
Intel Core i5-8265U @ 1.60GHz	8,018	\$297.00*
Intel Core i5-8365UE @ 1.60GHz	8,010	\$297.00*
AMD Ryzen 5 3580U	7,896	NA
Intel Xeon E3-1505L v6 @ 2.20GHz	7,887	NA
AMD Ryzen 5 3500U	7,852	NA
Intel Core i5-8265UC @ 1.60GHz	7,780	NA
Intel Core i5-8250U @ 1.60GHz	7,649	NA
Intel Core i5-7440HQ @ 2.80GHz	7,626	NA
AMD Ryzen 7 2700U	7,414	NA



CPU Benchmarks



AMD Ryzen 5 2500U	7,348	NA
AMD Rvzen Embedded V1605B	7.087	NA
AMD Ryzen 3 PRO 3300U	6,840	NA
Intel Core i5-7300HQ @ 2.50GHz	6,717	NA
Intel Core i7-7567U @ 3.50GHz	6,465	\$780.49
Intel Xeon E3-1505L v5 @ 2.00GHz	6,374	NA
AMD Ryzen 3 3300U	6,143	NA
Intel Core i3-8109U @ 3.00GHz	6,118	NA
AMD Ryzen 3 2300U	6,104	NA
Intel Core i3-10110U @ 2.10GHz	6,026	NA
Intel Core i7-7660U @ 2.50GHz	5,989	NA
Intel Core i3-1005G1 @ 1.20GHz	5,929	\$281.00*
Intel Core i5-7442EQ @ 2.10GHz	5,901	\$250.00*
Intel Core i5-7360U @ 2.30GHz	5,855	NA
Intel Core i7-7560U @ 2.40GHz	5,770	NA
Intel Core i5-7287U @ 3.30GHz	5,656	NA
Intel Core i5-7260U @ 2.20GHz	5,637	\$600.00
Intel Core i3-8145U @ 2.10GHz	5,507	\$281.00*
AMD A8-7680	5,322	\$59.99*
AMD Athlon 220GE	5,255	\$69.58
Intel Core i5-7300U @ 2.60GHz	5,155	\$474.89
Intel Core i7-7600U @ 2.80GHz	5,112	NA
AMD Embedded R-Series RX-418GD Radeon R6	5,068	NA
Intel Core i5-7267U @ 3.10GHz	5,052	NA
Intel Core i3-8130U @ 2.20GHz	5,019	\$281.00*
Intel Core i3-8121U @ 2.20GHz	4,802	NA
AMD FX-9830P	4,783	NA
Intel Core i3-7167U @ 2.80GHz	4,757	NA
Intel Core i5-6287U @ 3.10GHz	4,751	\$304.00*
Intel Core i5-6360U @ 2.00GHz	4,686	NA
AMD Ryzen 3 3200U	4,675	NA
AMD Athlon 300U	4,634	NA
Intel Core i3-7100H @ 3.00GHz	4,627	\$225.00*
AMD Ryzen 3 2200U	4,590	NA
AMD Ryzen Embedded R1505G	4,578	NA
AMD Ryzen Embedded V1202B	4,447	NA
AMD A12-9730P	4,417	NA
AMD PRO A10-9700B	4,380	NA
Intel Core i5-8200Y @ 1.30GHz	4,339	\$291.00*
AMD PRO A12-8830B	4,259	NA
Intel Core i5-8210Y @ 1.60GHz	4,227	NA
Intel Core i3-7130U @ 2.70GHz	4,062	\$459.99*
AMD A12-9720P	3,994	NA
AMD PRO A8-9600B	3,964	NA
AMD PRO A10-8730B	3,953	NA
Intel Core i7-8500Y @ 1.50GHz	3,945	\$393.00*
Intel Core m3-8100Y @ 1.10GHz	3,731	\$281.00*
AMD A10-9620P	3,679	NA



CPU Benchmarks




Intel Core i5-7Y57 @ 1.20GHz	3,676	NA
Intel Core i3-7020U @ 2.30GHz	3,520	\$281.00*
Intel Core i3-7102E @ 2.10GHz	3,266	\$225.00*
Intel Core i3-6102E @ 1.90GHz	3,196	\$225.00*
Intel Pentium 5405U @ 2.30GHz	3,186	\$161.00*
Intel Pentium 4417U @ 2.30GHz	3,185	\$161.00*
Intel Pentium 4415U @ 2.30GHz	3,148	NA
Intel Core i3-6006U @ 2.00GHz	3,078	NA
Intel Core i5-4230U @ 1.90GHz	2,902	NA
Intel Pentium G4400TE @ 2.40GHz	2,885	\$64.00*
Intel Core i5-4422E @ 1.80GHz	2,806	\$266.00*
AMD PRO A6-7350B	2,759	NA
Intel Celeron G3900E @ 2.40GHz	2,679	\$107.00*
Intel Celeron G3900TE @ 2.30GHz	2,591	\$42.00*
AMD Embedded G-Series GX-420GI Radeon R7E	2,508	NA
AMD A9-9425	2,493	NA
Intel Pentium Silver N5000 @ 1.10GHz	2,456	\$161.00*
AMD Embedded R-Series RX-216GD	2,409	NA
AMD PRO A6-8530B	2,388	NA
Intel Celeron 3965U @ 2.20GHz	2,369	\$107.00*
Intel Celeron 2000E @ 2.20GHz	2,365	NA
AMD A9-9420	2,337	NA
AMD A9-9400	2,306	NA
Intel Celeron N4100 @ 1.10GHz	2,271	\$107.00*
Intel Pentium 4415Y @ 1.60GHz	2,222	\$161.00*
AMD A6-9220	2,160	NA
AMD A6-9225	2,130	NA
AMD A4-5050 APU	2,124	NA
AMD Embedded G-Series GX-224IJ Radeon R4E	2,088	NA
Intel Atom C2538 @ 2.40GHz	2,085	\$104.00*
AMD PRO A6-9500B	2,076	NA
Intel Pentium 4410Y @ 1.50GHz	2,050	\$161.00*
Intel Atom T5700 @ 1.70GHz	2,039	NA
AMD A4-9125	2,001	NA
Intel Celeron 4205U @ 1.80GHz	1,977	\$107.00*
AMD A6-9220C	1,960	NA
AMD A4-9120	1,949	NA
Intel Celeron 3865U @ 1.80GHz	1,918	NA
Intel Atom x7-Z8750 @ 1.60GHz	1,894	NA
Intel Atom E3940 @ 1.60GHz	1,867	NA
Intel Celeron 3867U @ 1.80GHz	1,852	\$107.00*
Intel Celeron N3450 @ 1.10GHz	1,850	\$159.14
AMD A9-9420e	1,792	NA
AMD Embedded G-Series GX-215JJ Radeon R2E	1,764	NA
AMD A6-9200	1,747	NA
AMD E2-9010	1,705	NA
AMD E2-9000	1,650	NA

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AMD A6-9220e	1,629	NA
Intel Celeron 3965Y @ 1.50GHz	1.607	\$107.00*
AMD R-260H APU	1.576	NA
AMD A4-9120C	1,539	NA
AMD PRO A4-4350B	1,502	NA
Intel Celeron N4000 @ 1.10GHz	1,429	\$107.00*
AMD E2-9000e	1,324	NA
AMD GX-218GL SOC	1,207	NA
Intel Celeron J3355 @ 2.00GHz	1,155	NA
Intel Atom x5-E3930 @ 1.30GHz	811	NA
AMD G-T40R	203	NA
VIA Eden 1200MHz	142	NA
VIA Eden 1000MHz	123	NA

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