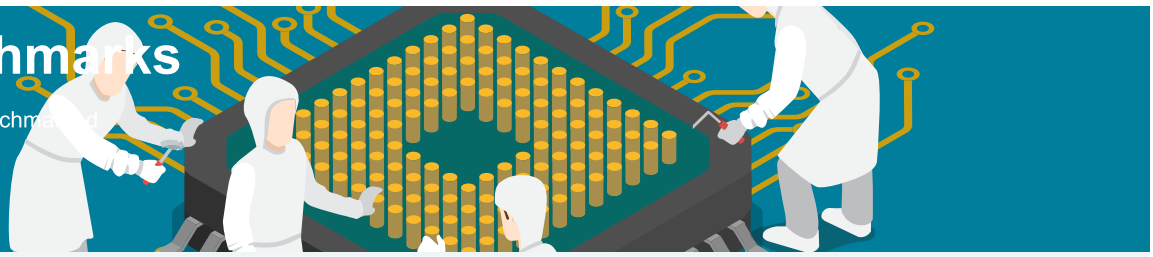
CPU Benchmarks

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

CPU Mega List
Search Model

Compare 0

CPU Mark | Price Performance | Sorted by Date

PassMark - CPU Mark

Laptop & Portable CPU Performance

Updated 15th of January 2020

CPU	CPU Mark	Price (USD)
Intel Xeon E-2286M @ 2.40GHz	18,259	$623.00*
Intel Core i9-9980HK @ 2.40GHz	17,579	$583.00*
Intel Core i9-9880H @ 2.30GHz	16,316	$556.00*
Intel Core i7-8700B @ 3.20GHz	14,963	$303.00*
Intel Xeon E-2186M @ 2.90GHz	14,523	$623.00*
Intel Xeon E-2276M @ 2.80GHz	14,445	$450.00*
Intel Core i9-8950HK @ 2.90GHz	14,191	$583.00*
Intel Core i7-9850H @ 2.60GHz	13,743	$395.00*
Intel Core i7-9750H @ 2.60GHz	13,586	$395.00*
Intel Xeon E-2176M @ 2.70GHz	13,559	$450.00*
Intel Core i7-8850H @ 2.60GHz	12,959	$395.00*
Intel Core i5-8500B @ 3.00GHz	12,756	$192.00*
Intel Core i7-9700TE @ 1.80GHz	12,688	$323.00*
Intel Core i7-10710U @ 1.10GHz	12,392	$443.00*
Intel Core i7-8750H @ 2.20GHz	12,391	$395.00*
Intel Core i7-8559U @ 2.70GHz	12,209	$705.00*
Intel Core i5-9400F @ 2.90GHz	12,058	$144.99
Intel Core i7-9850HL @ 1.90GHz	11,340	$395.00*
Intel Core i5-9400H @ 2.50GHz	11,299	$250.00*
Intel Core i7-8809G @ 3.10GHz	10,994	NA
Intel Core i5-8259U @ 2.30GHz	10,994	$579.95
Intel Core i5-8257U @ 1.40GHz	10,742	$320.00*

Common

Intel Core i5-8279U @ 2.40GHz | 10,599 | $320.00*

Intel Xeon E3-1535M v6 @

CPU Benchmarks

AMD vs Intel Market Share

Intel Core i7-1065G7 @ 1.30GHz	10,480	NA
Intel Core i7-8557U @ 1.70GHz	10,470	$431.00*
Intel Core i5-8400H @ 2.50GHz	10,370	$250.00*
Intel Core i7-7920HQ @ 3.10GHz	9,991	$568.00*
Intel Core i7-7820HK @ 2.90GHz	9,961	$378.00*
Intel Core i7-8705G @ 3.10GHz	9,898	$1,408.75*
Intel Core i5-9300H @ 2.40GHz	9,878	$250.00*
Intel Core i7-5850EQ @ 2.70GHz	9,817	$435.00*
Intel Core i7-8709G @ 3.10GHz	9,780	NA
Intel Core i5-1035G7 @ 1.20GHz	9,720	$320.00*
Intel Core i7-10510U @ 1.80GHz	9,633	$409.00*
Intel Core i5-8300H @ 2.30GHz	9,475	$250.00*
Intel Core i7-7820HQ @ 2.90GHz	9,261	$378.00*
Intel Core i7-7820EQ @ 3.00GHz	9,144	$378.00*
Intel Core i5-8305G @ 2.80GHz	9,000	NA
Intel Core i5-1035G4 @ 1.10GHz	8,953	$309.00*
AMD Ryzen 7 3750H	8,891	NA
AMD Ryzen 7 PRO 2700U	8,873	NA
Intel Core i5-1035G1 @ 1.00GHz	8,813	$297.00*
Intel Core i7-8565U @ 1.80GHz	8,804	NA
Intel Core i7-8665UE @ 1.70GHz	8,731	$409.00*
Intel Xeon E3-1268L v5 @ 2.40GHz	8,695	$456.54*
Intel Core i7-8650U @ 1.90GHz	8,674	$409.99*
Intel Core i7-8665U @ 1.90GHz	8,627	$409.00*
Intel Core i5-10210U @ 1.60GHz	8,571	$297.00*
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 5 PRO 3500U	8,492	NA
AMD Ryzen 7 PRO 3700U	8,487	NA
AMD Ryzen 5 3550H	8,416	NA
AMD Ryzen 5 2600H	8,366	NA
AMD Ryzen 3 PRO 3200GE	8,266	NA
Intel Core i7-8550U @ 1.80GHz	8,241	NA
AMD Ryzen 5 PRO 2500U	8,174	NA
Intel Core i5-8365U @ 1.60GHz	8,138	$297.00*
Intel Core i5-8350U @ 1.70GHz	8,132	$297.00*
AMD Ryzen 7 3780U	8,064	NA
AMD Ryzen 5 3580U	8,038	NA
Intel Core i5-8365UE @ 1.60GHz	8,010	$297.00*
Intel Core i5-8265U @ 1.60GHz	8,006	$297.00*
Intel Core i5-10210Y @ 1.00GHz	8,004	NA
AMD Ryzen 7 3700U	7,981	NA
Intel Xeon E3-1505L v6 @ 2.20GHz	7,887	NA
AMD Ryzen 5 3500U	7,786	NA
Intel Core i5-8265UC @ 1.60GHz	7,783	NA

Intel Core i5-8250U @ 1.60GHz	7,645	NA
Intel Core i5-7440HQ @ 2.80GHz	7,626	NA

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AMD Ryzen Embedded V1605B	7,390	NA
AMD Ryzen 5 2500U	7,337	NA
AMD Ryzen 3 PRO 2300U	7,063	NA
AMD Ryzen 3 PRO 3300U	6,765	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 i3-1005G1 @ 1.20GHz	6,100	$281.00*
AMD Ryzen 3 2300U	6,093	NA
Intel Core i3-8109U @ 3.00GHz	6,086	NA
Intel Core i7-7660U @ 2.50GHz	5,991	NA
Intel Core i5-6442EQ @ 1.90GHz	5,953	$250.00*
Intel Core i5-7442EQ @ 2.10GHz	5,901	$250.00*
Intel Core i5-7360U @ 2.30GHz	5,863	NA
Intel Core i7-7560U @ 2.40GHz	5,769	NA
Intel Core i3-10110U @ 2.10GHz	5,733	NA
Intel Core i5-7287U @ 3.30GHz	5,656	NA
Intel Core i5-7260U @ 2.20GHz	5,638	$557.79
Intel Core i3-8145U @ 2.10GHz	5,482	$281.00*
AMD A8-7680	5,326	$59.99*
AMD Athlon 220GE	5,230	$65.76
Intel Core i5-7300U @ 2.60GHz	5,145	$494.61
Intel Core i7-7600U @ 2.80GHz	5,109	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	5,005	$281.00*
Intel Core i3-8121U @ 2.20GHz	4,802	NA
Intel Core i3-7167U @ 2.80GHz	4,757	NA
Intel Core i5-6287U @ 3.10GHz	4,751	$304.00*
AMD Athlon 300U	4,627	NA
Intel Core i3-7100H @ 3.00GHz	4,627	$225.00*
Intel Core i5-6360U @ 2.00GHz	4,612	NA
AMD Ryzen 3 2200U	4,580	NA
AMD Ryzen Embedded R1505G	4,578	NA
AMD Ryzen 3 3200U	4,573	NA
AMD Ryzen Embedded V1202B	4,447	NA
AMD A12-9730P	4,417	NA
AMD PRO A10-9700B	4,380	NA
AMD PRO A12-8830B	4,233	NA
Intel Core i5-8210Y @ 1.60GHz	4,227	NA
Intel Core i5-8200Y @ 1.30GHz	4,211	$291.00*
Intel Core i3-7130U @ 2.70GHz	4,061	$459.99*
AMD A12-9720P	3,990	NA
AMD PRO A8-9600B	3,964	NA
Intel Core i7-8500Y @ 1.50GHz	3,945	$393.00*
Intel Core m3-8100Y @ 1.10GHz	3,741	$281.00*

AMD A10-9620P		3,677	NA
Intel Core i5-7Y57 @ 1.20GHz		3,676	NA

CPU Benchmarks

Intel Core m3-7Y32 @ 1.10GHz		3,391	NA
Intel Core i3-7102E @ 2.10GHz		3,266	$225.00*
Intel Core i3-6102E @ 1.90GHz		3,196	$225.00*
Intel Pentium 4417U @ 2.30GHz		3,190	$161.00*
Intel Pentium 5405U @ 2.30GHz		3,172	$161.00*
Intel Pentium 4415U @ 2.30GHz		3,149	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*
Intel Celeron 4305UE @ 2.00GHz		2,554	NA
AMD Embedded G-Series GX-420GI Radeon R7E		2,533	NA
Intel Pentium Silver N5000 @ 1.10GHz		2,452	$161.00*
AMD A9-9425		2,436	NA
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*
AMD A9-9420		2,335	NA
Intel Celeron N4100 @ 1.10GHz		2,243	$107.00*
Intel Pentium 4415Y @ 1.60GHz		2,224	$161.00*
AMD A6-9220		2,164	NA
AMD A4-5050 APU		2,124	NA
AMD A6-9225		2,108	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
Intel Celeron 1020M @ 2.10GHz		2,023	NA
AMD R-272F APU		2,007	NA
AMD A4-9125		1,979	NA
Intel Celeron 4205U @ 1.80GHz		1,977	$107.00*
AMD A6-9220C		1,962	NA
AMD A4-9120		1,954	NA
Intel Celeron 3865U @ 1.80GHz		1,904	NA
Intel Atom x7-Z8750 @ 1.60GHz		1,897	NA
Intel Atom E3940 @ 1.60GHz		1,867	NA
Intel Celeron 3867U @ 1.80GHz		1,862	$107.00*
AMD A9-9420e		1,787	NA
AMD Embedded G-Series GX-215JJ Radeon R2E		1,764	NA
AMD A6-9200		1,747	NA
AMD E2-9000		1,646	NA
AMD A6-9220e		1,609	NA

Intel Celeron 3965Y @ 1.50GHz	1,607	$107.00*
Intel Celeron 2002E @ 1.50GHz	1,605	$86.00*

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AMD PRO A4-4350B	1,502	NA
Intel Celeron N4000 @ 1.10GHz	1,430	$107.00*
AMD E2-9000e	1,315	NA
Intel Celeron N4000C @ 1.10GHz	1,226	NA
AMD GX-218GL SOC	1,207	NA
Intel Celeron J3355 @ 2.00GHz	1,164	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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