

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

CPU Mark

Price Performance

Sorted by Date



High End

High Mid Range

Low Mid Range

Low End

Best Value
(On Market)Best Value XY
ScatterBest Value
(All time)

New Desktop

New Laptop



Single Thread

Systems with
Multiple CPUs

Overclocked

Power
PerformanceCPU Mark by Socket
TypeCross-Platform CPU
Performance

CPU Mega List

Search Model

PassMark - CPU Mark

Laptop & Portable CPU Performance

Updated 11th of May 2020

CPU	CPU Mark	Price (USD)
AMD Ryzen 9 4900HS	20,254	NA
AMD Ryzen 7 4800H	19,372	NA
AMD Ryzen 7 4800HS	19,245	NA
Intel Core i9-10980HK @ 2.40GHz	17,249	\$583.00*
Intel Core i9-9980HK @ 2.40GHz	15,957	\$583.00*
Intel Xeon E-2286M @ 2.40GHz	15,942	\$623.00*
AMD Ryzen 5 4600H	15,121	NA
AMD Ryzen 7 4700U	14,327	NA
Intel Core i9-9880H @ 2.30GHz	14,113	\$556.00*
Intel Core i7-9750HF @ 2.60GHz	12,674	\$395.00*
Intel Xeon E-2186M @ 2.90GHz	12,413	\$623.00*
Intel Xeon E-2276M @ 2.80GHz	12,252	\$450.00*
Intel Core i7-8700B @ 3.20GHz	12,128	\$303.00*
AMD Ryzen 5 4500U	11,565	NA
Intel Core i7-9750H @ 2.60GHz	11,534	\$395.00*
Intel Core i9-8950HK @ 2.90GHz	11,484	\$583.00*
Intel Core i7-9850H @ 2.60GHz	11,467	\$395.00*
Intel Core i7-9700TE @ 1.80GHz	10,954	\$323.00*
Intel Core i7-8850H @ 2.60GHz	10,759	\$395.00*
Intel Xeon E-2176M @ 2.70GHz	10,631	\$450.00*
Intel Core i7-10710U @ 1.10GHz	10,604	\$598.95
Intel Core i7-8750H @ 2.20GHz	10,299	\$395.00*

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Performance](#)

Intel Core i7-10750H @ 2.60GHz	9,892	NA
Intel Core i5-8500B @ 3.00GHz	9,697	\$192.00*
Intel Core i5-10300H @ 2.50GHz	9,501	NA
Intel Core i7-9850HL @ 1.90GHz	9,216	\$395.00*
Intel Core i7-1065G7 @ 1.30GHz	9,068	NA
Intel Core i7-8809G @ 3.10GHz	8,827	NA
Intel Core i5-1035G7 @ 1.20GHz	8,744	\$320.00*
AMD Ryzen 7 3750H	8,493	NA
Intel Core i5-8400H @ 2.50GHz	8,486	\$250.00*
Intel Core i7-8559U @ 2.70GHz	8,453	\$819.00
Intel Core i5-9400H @ 2.50GHz	8,413	\$250.00*
Intel Core i5-1035G4 @ 1.10GHz	8,409	\$309.00*
Intel Core i5-8259U @ 2.30GHz	8,403	\$609.00
AMD Ryzen 3 4300U	8,364	NA
Intel Core i5-8257U @ 1.40GHz	8,246	\$320.00*
Intel Core i7-8706G @ 3.10GHz	8,168	NA
Intel Core i5-9300H @ 2.40GHz	8,123	\$250.00*
AMD Ryzen 5 3550H	8,105	NA
Intel Core i5-8279U @ 2.40GHz	7,983	\$320.00*
AMD Ryzen 5 3580U	7,976	NA
Intel Core i7-8557U @ 1.70GHz	7,885	\$431.00*
Intel Core i5-1035G1 @ 1.00GHz	7,827	\$297.00*
Intel Core i7-8709G @ 3.10GHz	7,794	NA
Intel Core i5-9300HF @ 2.40GHz	7,792	\$250.00*
AMD Ryzen Embedded V1807B	7,764	NA
Intel Core i7-8705G @ 3.10GHz	7,591	\$1,408.75*
Intel Core i5-8300H @ 2.30GHz	7,580	\$250.00*
AMD Ryzen 5 PRO 3500U	7,510	NA
AMD Ryzen 7 PRO 2700U	7,486	NA
AMD Ryzen 7 2800H	7,432	NA
AMD Ryzen 7 3780U	7,392	NA
AMD Ryzen 7 3700U	7,388	NA
AMD Ryzen 7 PRO 3700U	7,353	NA
Intel Core i7-10510U @ 1.80GHz	7,350	\$409.00*
AMD Ryzen 5 2600H	7,317	NA
AMD Ryzen 3 PRO 3200GE	7,297	NA
AMD Ryzen 5 3500U	7,191	NA
AMD Ryzen Embedded V1605B	7,125	NA
Intel Core i7-7820EQ @ 3.00GHz	7,087	\$378.00*
Intel Core i5-8305G @ 2.80GHz	6,975	NA
Intel Core i3-8100B @ 3.60GHz	6,907	\$133.00*
Intel Core i7-5850EQ @ 2.70GHz	6,829	\$435.00*
Intel Core i7-8565U @ 1.80GHz	6,701	NA
Intel Xeon E3-1268L v5 @ 2.40GHz	6,680	\$456.54*
Intel Core i7-8665UE @ 1.70GHz	6,626	\$409.00*
AMD Ryzen 5 2500U	6,594	NA
Intel Core i7-8665U @ 1.90GHz	6,594	\$409.00*
Intel Core i7-8650U @ 1.90GHz	6,583	\$1,049.00*
AMD Ryzen 5 PRO 2500U	6,570	NA


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Intel Core i5-8365U @ 1.60GHz	6,561	\$669.98
Intel Core i5-8350U @ 1.70GHz	6,540	\$297.00*
AMD Ryzen 7 2700U	6,364	NA
Intel Core i5-8265U @ 1.60GHz	6,351	\$297.00*
Intel Core i5-8250U @ 1.60GHz	6,215	NA
Intel Xeon E3-1505L v6 @ 2.20GHz	6,112	NA
Intel Core i7-8550U @ 1.80GHz	6,103	NA
Intel Core i5-8365UE @ 1.60GHz	6,079	\$297.00*
Intel Core i5-8265UC @ 1.60GHz	5,999	NA
AMD Ryzen 3 PRO 3300U	5,977	NA
AMD Ryzen 3 PRO 2300U	5,788	NA
Intel Core i5-1030NG7 @ 1.10GHz	5,754	NA
AMD Ryzen 3 3300U	5,342	NA
Intel Core i3-1005G1 @ 1.20GHz	5,239	\$281.00*
AMD Ryzen 3 2300U	5,172	NA
Intel Core i5-10210Y @ 1.00GHz	4,900	NA
Intel Core i5-7442EQ @ 2.10GHz	4,853	\$250.00*
Intel Core i5-6442EQ @ 1.90GHz	4,573	\$250.00*
Intel Core i3-8121U @ 2.20GHz	4,493	\$509.99
AMD Athlon 220GE	4,472	\$79.72
Intel Core i7-7660U @ 2.50GHz	4,437	NA
Intel Core i3-8109U @ 3.00GHz	4,381	\$625.00*
Intel Core i5-7360U @ 2.30GHz	4,326	NA
Intel Core i3-10110U @ 2.10GHz	4,213	NA
AMD Ryzen Embedded R1505G	4,194	NA
AMD Ryzen 3 3200U	4,131	NA
Intel Core i5-7287U @ 3.30GHz	4,029	NA
AMD Athlon 300U	3,960	NA
Intel Core i3-8130U @ 2.20GHz	3,804	\$281.00*
Intel Core i3-8145U @ 2.10GHz	3,793	\$281.00*
AMD Ryzen 3 2200U	3,667	NA
Intel Core i3-10110Y @ 1.00GHz	3,639	\$287.00*
AMD Ryzen Embedded V1202B	3,625	NA
AMD A8-7680	3,581	\$59.99*
Intel Core i5-7267U @ 3.10GHz	3,579	NA
Intel Core i3-1000NG4 @ 1.10GHz	3,472	NA
Intel Core i5-6287U @ 3.10GHz	3,449	\$304.00*
Intel Core i3-7100H @ 3.00GHz	3,397	\$225.00*
Intel Core i3-7167U @ 2.80GHz	3,389	NA
AMD Embedded R-Series RX-418GD Radeon R6	3,365	NA
AMD Athlon Silver 3050U	3,272	NA
Intel Core i5-8200Y @ 1.30GHz	3,070	\$291.00*
Intel Core i5-8210Y @ 1.60GHz	3,011	NA
Intel Core i3-7130U @ 2.70GHz	2,901	\$459.99*
Intel Core m3-8100Y @ 1.10GHz	2,898	\$281.00*
AMD A12-9730P	2,898	NA
Intel Core i7-8500Y @ 1.50GHz	2,829	\$393.00*
Intel Pentium Silver N5000 @ 1.10GHz	2,764	\$161.00*

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AMD A6-9400	2,717	NA
AMD PRO A10-9700B	2,703	NA
AMD A10-9620P	2,670	NA
Intel Core i3-7020U @ 2.30GHz	2,601	\$281.00*
Intel Core m3-7Y32 @ 1.10GHz	2,578	NA
Intel Celeron N4100 @ 1.10GHz	2,567	\$107.00*
Intel Pentium 6405U @ 2.40GHz	2,561	\$161.00*
Intel Core i3-7102E @ 2.10GHz	2,531	\$225.00*
AMD PRO A12-8830B	2,462	NA
Intel Core i3-6102E @ 1.90GHz	2,455	\$225.00*
Intel Pentium Silver N5030 @ 1.10GHz	2,424	NA
Intel Celeron N4120 @ 1.10GHz	2,350	NA
Intel Pentium 5405U @ 2.30GHz	2,346	\$161.00*
Intel Pentium 4417U @ 2.30GHz	2,302	\$161.00*
Intel Pentium G4400TE @ 2.40GHz	2,217	\$64.00*
Intel Atom C2538 @ 2.40GHz	2,086	\$104.00*
Intel Atom T5700 @ 1.70GHz	2,039	NA
Intel Celeron G3900TE @ 2.30GHz	1,991	\$42.00*
Intel Celeron 4305UE @ 2.00GHz	1,961	NA
Intel Core i5-4422E @ 1.80GHz	1,931	\$266.00*
Intel Core i5-4230U @ 1.90GHz	1,891	NA
Intel Atom E3940 @ 1.60GHz	1,868	NA
Intel Celeron N4020 @ 1.10GHz	1,820	NA
Intel Celeron 3965U @ 2.20GHz	1,758	\$107.00*
AMD PRO A6-7350B	1,681	NA
Intel Pentium 4415Y @ 1.60GHz	1,625	\$161.00*
AMD Embedded R-Series RX-216GD	1,599	NA
AMD A9-9425	1,548	NA
Intel Celeron N4000 @ 1.10GHz	1,529	\$107.00*
AMD A9-9420	1,524	NA
Intel Celeron N4000C @ 1.10GHz	1,511	NA
AMD Embedded G-Series GX-420GI Radeon R7E	1,495	NA
Intel Celeron 3867U @ 1.80GHz	1,459	\$107.00*
Intel Celeron 5205U @ 1.90GHz	1,451	\$107.00*
AMD A6-9225	1,382	NA
Intel Pentium 4410Y @ 1.50GHz	1,366	\$161.00*
AMD A6-9220	1,337	NA
AMD A4-9125	1,336	NA
Intel Celeron 4205U @ 1.80GHz	1,334	\$107.00*
Intel Pentium A1020 @ 2.41GHz	1,279	NA
AMD Embedded G-Series GX-224IJ Radeon R4E	1,272	NA
Intel Celeron 1020M @ 2.10GHz	1,270	NA
AMD A4-9120	1,255	NA
Intel Celeron 3865U @ 1.80GHz	1,240	NA
AMD A9-9420e	1,231	NA
AMD A6-9220C	1,229	NA
AMD R-272F APU	1,219	NA

Intel Celeron 3965Y @ 1.50GHz	1,203	\$107.00*
Intel Celeron 2002E @ 1.50GHz	1.105	\$86.00*
AMD A6-9220e	1,030	NA
AMD PRO A4-4350B	1,028	NA
AMD A6-9200	973	NA
AMD A4-9120C	938	NA
AMD E2-9000	774	NA
AMD E2-9000e	765	NA
VIA Eden 1000MHz	124	NA
AMD G-T40R	116	NA

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