



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
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PassMark - CPU Mark

Laptop & Portable CPU Performance


Updated 19th of April 2021

CPU	CPU Mark	Price (USD)
AMD Ryzen 9 5900HX	23,939	NA
AMD Ryzen 9 5900HS	23,097	NA
AMD Ryzen 9 5980HS	23,078	NA
AMD Ryzen 7 5800HS	22,040	NA
AMD Ryzen 7 5800H	22,003	NA
AMD Ryzen 7 PRO 5850U	20,659	NA
AMD Ryzen 9 4900HS	19,759	NA
AMD Ryzen 7 5800U	19,379	NA
AMD Ryzen 7 4800H	19,231	NA
AMD Ryzen 9 4900H	19,067	NA
AMD Ryzen 7 4800HS	19,036	NA
AMD Ryzen 5 5600H	18,399	NA
AMD Ryzen 7 Extreme Edition	18,187	NA
AMD Ryzen 7 4800U	17,343	NA
Intel Xeon W-10885M @ 2.40GHz	17,140	\$623.00*
Intel Core i9-10980HK @ 2.40GHz	16,593	\$583.00*
Intel Core i7-10700TE @ 2.00GHz	16,332	\$330.00*
AMD Ryzen 7 5700U	16,062	NA
Intel Core i9-10885H @ 2.40GHz	16,049	\$556.00*
Intel Core i7-10875H @ 2.30GHz	15,966	\$450.00*

Intel Xeon E-2286M @ 2.40GHz	15,755	\$1,618.06*
Intel Core i7-10870H @ 2.70GHz	15,644	\$417.00*
 CPU Benchmarks ▼		
Intel Core i9-10880H @ 2.30GHz	15,390	NA
Intel Core i9-9980HK @ 2.40GHz	15,093	\$583.00*
Apple M1 8 Core 3200 MHz	14,872	NA
AMD Ryzen 5 4600H	14,833	NA
AMD Ryzen 5 PRO 4400GE	14,795	NA
AMD Ryzen 5 4600HS	14,508	NA
Intel Core i9-9880H @ 2.30GHz	13,954	\$556.00*
AMD Ryzen 5 5500U	13,888	NA
AMD Ryzen 7 4700U	13,809	NA
AMD Ryzen 5 4600U	13,729	NA
Intel Core i7-11375H @ 3.30GHz	13,548	\$482.00*
Intel Xeon W-10855M @ 2.80GHz	13,252	\$450.00*
AMD Ryzen 5 PRO 4650U	12,986	NA
Intel Core i7-11370H @ 3.30GHz	12,788	\$426.00*
Intel Core i7-10750H @ 2.60GHz	12,590	NA
Intel Core i7-10850H @ 2.70GHz	12,542	\$395.00*
AMD Ryzen 3 5400U	12,367	NA
Intel Core i7-8700B @ 3.20GHz	12,288	\$303.00*
Intel Core i5-10500H @ 2.50GHz	12,254	\$250.00*
Intel Xeon E-2276M @ 2.80GHz	12,252	\$450.00*
AMD Ryzen 5 PRO 4500U	12,049	NA
Intel Core i5-11300H @ 3.10GHz	11,710	\$309.00*
Intel Core i7-9750HF @ 2.60GHz	11,648	\$395.00*
Intel Core i7-9850H @ 2.60GHz	11,562	\$1,305.76*
Intel Core i7-9750H @ 2.60GHz	11,319	\$1,648.03*
Intel Core i7-1185G7 @ 3.00GHz	11,295	\$426.00*
AMD Ryzen 5 4500U	11,275	NA
Intel Xeon E-2176M @ 2.70GHz	11,069	\$450.00*
AMD Ryzen 3 PRO 4200GE	11,006	NA
Intel Core i7-1160G7 @ 1.20GHz	10,997	\$426.00*
Intel Core i9-8950HK @ 2.90GHz	10,939	\$583.00*
Intel Core i7-9700TE @ 1.80GHz	10,645	\$323.00*
Intel Core i5-1145G7 @ 2.60GHz	10,579	NA
Intel Core i5-1130G7 @ 1.10GHz	10,548	\$309.00*
Intel Core i7-1165G7 @ 2.80GHz	10,521	\$426.00*
Intel Core i7-1068NG7 @ 2.30GHz	10,460	\$426.00*
Intel Core i7-8850H @ 2.60GHz	10,425	\$395.00*
Intel Core i3-1125G4 @ 2.00GHz	10,327	NA
AMD Ryzen 3 PRO 4450U	10,097	NA
Intel Core i5-1135G7 @ 2.40GHz	10,092	\$309.00*
Intel Core i7-10710U @ 1.10GHz	10,082	\$599.99
Intel Core i5-9400F @ 2.90GHz	9,545	\$149.99
Intel Core i5-8500B @ 3.00GHz	9,478	\$192.00*
Intel Core i5-1038NG7 @ 2.00GHz	9,465	\$320.00*
Intel Core i7-8569U @ 2.80GHz	9,251	\$431.00*

Intel Core i5-9500TE @ 2.20GHz	9,212	\$192.00*
Intel Core i7-10810U @ 1.10GHz	9,121	\$443.00*
 CPU Benchmarks ▼		
Intel Core i5-10400H @ 2.60GHz	8,932	\$250.00*
Intel Core i7-1065G7 @ 1.30GHz	8,879	\$426.00*
Intel Core i7-8559U @ 2.70GHz	8,864	\$715.00*
Intel Core i5-10300H @ 2.50GHz	8,804	\$250.00*
Intel Core i5-10200H @ 2.40GHz	8,520	\$250.00*
Intel Core i5-1035G7 @ 1.20GHz	8,379	\$320.00*
AMD Ryzen 7 3750H	8,377	NA
Intel Core i5-1035G4 @ 1.10GHz	8,347	\$309.00*
AMD Ryzen Embedded V1807B	8,342	NA
Intel Core i5-8259U @ 2.30GHz	8,277	\$658.00
Intel Core i5-9400H @ 2.50GHz	8,267	\$250.00*
Intel Core i7-8557U @ 1.70GHz	8,236	\$431.00*
Intel Core i5-8400H @ 2.50GHz	8,175	\$250.00*
Intel Core i7-8706G @ 3.10GHz	8,136	NA
AMD Ryzen 5 3550H	8,091	NA
Intel Core i5-8269U @ 2.60GHz	8,055	\$320.00*
AMD Ryzen 5 3580U	7,958	NA
Intel Core i5-1035G1 @ 1.00GHz	7,955	\$297.00*
Intel Core i5-8257U @ 1.40GHz	7,937	\$320.00*
Intel Core i7-8709G @ 3.10GHz	7,921	NA
Intel Core i5-9300H @ 2.40GHz	7,899	\$250.00*
Intel Core i5-8260U @ 1.60GHz	7,869	\$499.00
AMD Ryzen 3 4300U	7,704	NA
AMD Ryzen 7 2800H	7,656	NA
Intel Core i5-9300HF @ 2.40GHz	7,598	\$250.00*
Intel Core i5-8300H @ 2.30GHz	7,556	\$250.00*
AMD Ryzen 5 2600H	7,537	NA
Intel Core i3-10100T @ 3.00GHz	7,510	\$122.00*
AMD Ryzen 7 PRO 3700U	7,446	NA
AMD Ryzen 7 3780U	7,386	NA
AMD Ryzen 7 3700U	7,355	NA
Intel Core i7-10610U @ 1.80GHz	7,161	\$409.00*
AMD Ryzen 5 3500U	7,151	NA
AMD Ryzen 7 PRO 2700U	7,146	NA
AMD Ryzen 3 PRO 3200GE	7,113	NA
AMD Ryzen 5 3450U	7,076	NA
Intel Core i5-8305G @ 2.80GHz	7,073	NA
Intel Core i7-7820EQ @ 3.00GHz	7,059	\$378.00*
Intel Core i5-10310U @ 1.70GHz	7,036	\$297.00*
Intel Core i7-5850EQ @ 2.70GHz	7,036	\$435.00*
Intel Core i7-10510U @ 1.80GHz	6,988	\$409.00*
AMD Ryzen 5 PRO 3500U	6,919	NA
AMD Ryzen Embedded V1605B	6,864	NA
AMD Ryzen 5 PRO 2500U	6,625	NA
Intel Core i7-8665UE @ 1.70GHz	6,587	\$409.00*

Intel Core i5-8279U @ 2.40GHz	6,558	\$320.00*
Intel Core i7-8665U @ 1.90GHz	6,548	\$679.35
 CPU Benchmarks ▼		
Intel Core i3-8100B @ 3.60GHz	6,417	\$133.00*
Intel Core i5-8365U @ 1.60GHz	6,399	\$522.48*
Intel Core i7-8565U @ 1.80GHz	6,384	NA
Intel Core i3-1115G4 @ 3.00GHz	6,311	\$281.00*
Intel Core i7-1060NG7 @ 1.20GHz	6,234	NA
AMD Ryzen 3 PRO 2300U	6,216	NA
Intel Core i7-8565UC @ 1.80GHz	6,187	NA
Intel Core i5-8265U @ 1.60GHz	6,131	\$499.88*
AMD Ryzen 3 PRO 3300U	6,060	NA
Intel Core i5-8265UC @ 1.60GHz	5,988	NA
AMD Ryzen 3 3300U	5,865	NA
Intel Core i5-1030NG7 @ 1.10GHz	5,734	NA
Intel Core i5-7440EQ @ 2.90GHz	5,711	\$250.00*
Intel Core i3-9100TE @ 2.20GHz	5,705	\$122.00*
Intel Pentium Gold 7505 @ 2.00GHz	5,541	NA
AMD Ryzen 3 2300U	5,419	NA
Intel Core i5-8365UE @ 1.60GHz	5,408	\$297.00*
Intel Core i7-10510Y @ 1.20GHz	5,289	\$403.00*
Intel Core i3-1005G1 @ 1.20GHz	5,224	\$281.00*
Intel Core i5-10210Y @ 1.00GHz	4,918	NA
Intel Core i5-7442EQ @ 2.10GHz	4,834	\$250.00*
AMD Athlon Silver 3050GE	4,545	NA
AMD Athlon 220GE	4,538	\$180.00
Intel Core i5-6442EQ @ 1.90GHz	4,519	\$250.00*
Intel Core i3-1000NG4 @ 1.10GHz	4,505	NA
Intel Core i3-8121U @ 2.20GHz	4,369	\$595.00
Intel Core i3-8109U @ 3.00GHz	4,351	\$399.00
AMD Athlon Gold 3150U	4,224	NA
Intel Core i5-7287U @ 3.30GHz	4,149	NA
AMD Ryzen 3 3250U	4,146	NA
Intel Core i3-8145UE @ 2.20GHz	4,133	\$281.00*
Intel Core i3-10110U @ 2.10GHz	4,066	\$452.00
AMD Athlon 300U	4,051	NA
Microsoft ARM SQ1 @ 3.0 GHz	4,014	NA
AMD Ryzen Embedded R1505G	3,969	NA
AMD Ryzen 3 3200U	3,959	NA
Intel Core i7-6660U @ 2.40GHz	3,863	\$415.00*
AMD Ryzen Embedded V1202B	3,823	NA
Intel Core i3-8145U @ 2.10GHz	3,813	\$281.00*
AMD A8-7680	3,531	\$50.08*
Intel Core i3-7167U @ 2.80GHz	3,489	NA
Intel Core i3-10110Y @ 1.00GHz	3,444	\$287.00*
Intel Core i5-L16G7 @ 1.40GHz	3,372	\$281.00*
AMD Ryzen Embedded R1305G	3,329	NA
AMD Athlon Silver 3050U	3,192	NA

Intel Core i5-8210Y @ 1.60GHz	3,063	NA
Intel Core m3-8100Y @ 1.10GHz	3,022	\$281.00*
 CPU Benchmarks ▼		
Intel Core i7-8500Y @ 1.50GHz	2,832	\$393.00*
AMD A6-9400	2,717	NA
Intel Pentium Silver N5030 @ 1.10GHz	2,694	NA
AMD 3015e	2,678	NA
AMD 3020e	2,639	NA
Intel Core i3-7020U @ 2.30GHz	2,589	\$281.00*
Intel Core i3-7102E @ 2.10GHz	2,521	\$225.00*
Intel Celeron N4120 @ 1.10GHz	2,468	NA
Intel Celeron N4100 @ 1.10GHz	2,451	\$107.00*
Intel Core i3-6102E @ 1.90GHz	2,349	\$225.00*
Intel Pentium 6405U @ 2.40GHz	2,348	\$161.00*
Intel Core i5-8200Y @ 1.30GHz	2,308	\$291.00*
Intel Pentium 5405U @ 2.30GHz	2,305	\$161.00*
Intel Celeron 6305 @ 1.80GHz	2,246	NA
Intel Pentium 4417U @ 2.30GHz	2,230	\$161.00*
Intel Pentium G4400TE @ 2.40GHz	2,190	\$64.00*
Intel Celeron 4305UE @ 2.00GHz	1,950	NA
Intel Atom E3940 @ 1.60GHz	1,936	NA
Intel Celeron G3900TE @ 2.30GHz	1,850	\$42.00*
AMD GX-420MC SOC	1,796	NA
Intel Pentium 4425Y @ 1.70GHz	1,679	\$161.00*
Intel Pentium 4415Y @ 1.60GHz	1,616	\$161.00*
Intel Celeron N4020 @ 1.10GHz	1,616	NA
Intel Celeron N4000C @ 1.10GHz	1,596	NA
AMD A9-9425	1,546	NA
Intel Celeron 3867U @ 1.80GHz	1,467	\$107.00*
Intel Celeron 5205U @ 1.90GHz	1,437	\$107.00*
AMD A6-9225	1,340	NA
Intel Atom T5700 @ 1.70GHz	1,326	NA
Intel Celeron 4205U @ 1.80GHz	1,311	\$107.00*
Intel Celeron 1020M @ 2.10GHz	1,275	NA
Intel Pentium A1020 @ 2.41GHz	1,265	NA
AMD A4-9125	1,223	NA
AMD R-272F APU	1,215	NA
AMD A6-9220C	1,208	NA
Intel Celeron 2002E @ 1.50GHz	1,091	\$86.00*
Intel Atom C2538 @ 2.40GHz	1,086	\$104.00*
AMD PRO A4-4350B	1,046	NA
AMD A4-9120e	894	NA
AMD A4-9120C	766	NA
AMD G-T40R	120	NA

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