

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 29th of March 2021

CPU	CPU Mark	Price (USD)
AMD Ryzen 9 5900HX	23,895	NA
AMD Ryzen 9 5900HS	23,110	NA
AMD Ryzen 9 5980HS	23,078	NA
AMD Ryzen 7 5800HS	22,084	NA
AMD Rvzen 7 5800H	21,811	NA

AMD Ryzen 9 4900HS	19,803	NA
AMD Ryzen 7 4800H	19,222	NA
 CPU Benchmarks ▼		
AMD Ryzen 9 4900H	19,073	NA
AMD Ryzen 7 4800HS	19,040	NA
AMD Ryzen 7 Extreme Edition	18,283	NA
Intel Xeon W-10885M @ 2.40GHz	17,354	\$623.00*
AMD Ryzen 7 4800U	17,342	NA
Intel Core i9-10980HK @ 2.40GHz	16,573	\$583.00*
Intel Core i7-10700TE @ 2.00GHz	16,332	\$330.00*
Intel Core i9-10885H @ 2.40GHz	16,057	\$556.00*
Intel Core i7-10875H @ 2.30GHz	16,018	\$450.00*
Intel Core i7-10870H @ 2.20GHz	15,862	\$417.00*
Intel Xeon E-2286M @ 2.40GHz	15,772	\$1,618.06*
AMD Ryzen 7 PRO 4750U	15,579	NA
Intel Core i9-10880H @ 2.30GHz	15,390	NA
Intel Core i9-9980HK @ 2.40GHz	15,079	\$583.00*
AMD Ryzen 5 4600H	14,847	NA
AMD Ryzen 5 PRO 4400GE	14,795	NA
Apple M1 8 Core 3200 MHz	14,714	NA
AMD Ryzen 5 4600HS	14,508	NA
Intel Core i9-9880H @ 2.30GHz	13,974	\$556.00*
AMD Ryzen 7 4700U	13,791	NA
AMD Ryzen 7 5700U	13,743	NA
AMD Ryzen 5 4600U	13,729	NA
AMD Ryzen 5 5500U	13,714	NA
Intel Core i7-11375H @ 3.30GHz	13,285	\$482.00*
Intel Xeon W-10855M @ 2.80GHz	13,239	\$450.00*
Intel Core i7-11370H @ 3.30GHz	13,138	\$426.00*
AMD Ryzen 5 PRO 4650U	13,008	NA
Intel Core i7-10750H @ 2.60GHz	12,607	NA
Intel Core i7-8700B @ 3.20GHz	12,602	\$303.00*
Intel Core i7-10850H @ 2.70GHz	12,506	\$395.00*
Intel Core i5-10500H @ 2.50GHz	12,407	\$250.00*
AMD Ryzen 3 5400U	12,367	NA
Intel Xeon E-2276M @ 2.80GHz	12,199	\$450.00*
AMD Ryzen 5 PRO 4500U	12,049	NA
Intel Core i7-9750HF @ 2.60GHz	11,648	\$395.00*
Intel Core i7-9850H @ 2.60GHz	11,633	\$1,305.76*
Intel Core i7-1185G7 @ 3.00GHz	11,371	\$426.00*
Intel Core i7-9750H @ 2.60GHz	11,328	\$2,159.00*
AMD Ryzen 5 4500U	11,304	NA

AMD Ryzen 3 PRO 4200GE	11,006	NA
Intel Core i7-1160G7 @ 1.20GHz	10,997	\$426.00*
 CPU Benchmarks ▼		
Intel Core i5-1145G7 @ 2.60GHz	10,845	NA
Intel Core i7-9700TE @ 1.80GHz	10,645	\$323.00*
Intel Core i7-1165G7 @ 2.80GHz	10,504	\$426.00*
Intel Core i7-8850H @ 2.60GHz	10,494	\$395.00*
Intel Core i5-1130G7 @ 1.10GHz	10,482	\$309.00*
Intel Core i7-1068NG7 @ 2.30GHz	10,444	\$426.00*
Intel Core i3-1125G4 @ 2.00GHz	10,327	NA
Intel Core i7-8750H @ 2.20GHz	10,196	\$395.00*
Intel Core i5-1135G7 @ 2.40GHz	10,107	\$309.00*
Intel Core i7-10710U @ 1.10GHz	10,098	\$559.99
AMD Ryzen 3 PRO 4450U	10,097	NA
Intel Core i5-1038NG7 @ 2.00GHz	9,646	\$320.00*
Intel Core i5-9400F @ 2.90GHz	9,556	\$146.00
Intel Core i5-8500B @ 3.00GHz	9,443	\$192.00*
Intel Core i7-8569U @ 2.80GHz	9,251	\$431.00*
Intel Core i5-9500TE @ 2.20GHz	9,212	\$192.00*
Intel Core i7-9850HL @ 1.90GHz	9,112	\$395.00*
Intel Core i7-10810U @ 1.10GHz	8,994	\$443.00*
Intel Core i5-10400H @ 2.60GHz	8,932	\$250.00*
Intel Core i7-8559U @ 2.70GHz	8,921	\$590.00
Intel Core i5-10200H @ 2.40GHz	8,879	\$250.00*
Intel Core i7-1065G7 @ 1.30GHz	8,877	\$426.00*
Intel Core i5-10300H @ 2.50GHz	8,803	\$250.00*
AMD Ryzen 7 3750H	8,384	NA
Intel Core i5-1035G7 @ 1.20GHz	8,379	\$320.00*
Intel Core i5-1035G4 @ 1.10GHz	8,369	\$309.00*
AMD Ryzen Embedded V1807B	8,342	NA
Intel Core i5-8259U @ 2.30GHz	8,291	\$539.00
Intel Core i5-9400H @ 2.50GHz	8,267	\$250.00*
Intel Core i5-8400H @ 2.50GHz	8,175	\$250.00*
Intel Core i7-8706G @ 3.10GHz	8,136	NA
AMD Ryzen 5 3550H	8,098	NA
AMD Ryzen 5 3580U	8,001	NA
Intel Core i5-1035G1 @ 1.00GHz	7,963	\$297.00*
Intel Core i5-8257U @ 1.40GHz	7,954	\$320.00*
Intel Core i7-8709G @ 3.10GHz	7,921	NA
Intel Core i5-8279U @ 2.40GHz	7,917	\$320.00*
Intel Core i5-9300H @ 2.40GHz	7,898	\$250.00*
Intel Core i5-8260U @ 1.60GHz	7,869	\$399.99

AMD Ryzen 7 2800H	7,656	NA
Intel Core i5-9300HF @ 2.40GHz	7,587	\$250.00*
 CPU Benchmarks ▼		
AMD Ryzen 5 2600H	7,537	NA
Intel Core i3-10100T @ 3.00GHz	7,510	\$122.00*
AMD Ryzen 7 PRO 3700U	7,454	NA
AMD Ryzen 7 3780U	7,386	NA
AMD Ryzen 7 3700U	7,340	NA
Intel Core i7-10610U @ 1.80GHz	7,194	\$409.00*
AMD Ryzen 7 PRO 2700U	7,166	NA
AMD Ryzen 5 3500U	7,160	NA
AMD Ryzen 3 PRO 3200GE	7,113	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	7,043	\$297.00*
Intel Core i7-5850EQ @ 2.70GHz	7,036	\$435.00*
AMD Ryzen 5 3450U	7,014	NA
Intel Core i7-10510U @ 1.80GHz	6,993	\$409.00*
AMD Ryzen 5 PRO 3500U	6,919	NA
AMD Ryzen Embedded V1605B	6,868	NA
Intel Core i3-8100B @ 3.60GHz	6,829	\$133.00*
AMD Ryzen 5 PRO 2500U	6,616	NA
Intel Core i7-8665UE @ 1.70GHz	6,587	\$409.00*
Intel Core i7-8665U @ 1.90GHz	6,552	\$675.44
Intel Core i5-10210U @ 1.60GHz	6,500	\$519.95
Intel Core i3-1115G4 @ 3.00GHz	6,420	\$281.00*
Intel Core i5-8365U @ 1.60GHz	6,399	\$455.63*
Intel Core i7-8565U @ 1.80GHz	6,393	NA
Intel Core i7-1060NG7 @ 1.20GHz	6,234	NA
AMD Ryzen 3 PRO 2300U	6,206	NA
Intel Core i7-8565UC @ 1.80GHz	6,187	NA
Intel Core i5-8265U @ 1.60GHz	6,141	\$749.00*
AMD Ryzen 3 PRO 3300U	6,060	NA
Intel Core i5-8265UC @ 1.60GHz	5,988	NA
AMD Ryzen 3 3300U	5,855	NA
Intel Core i5-7440EQ @ 2.90GHz	5,711	\$250.00*
Intel Core i3-9100TE @ 2.20GHz	5,705	\$122.00*
Intel Core i5-1030NG7 @ 1.10GHz	5,631	NA
Intel Pentium Gold 7505 @ 2.00GHz	5,537	NA
AMD Ryzen 3 2300U	5,422	NA
Intel Core i5-8365UE @ 1.60GHz	5,408	\$297.00*
Intel Core i7-10510Y @ 1.20GHz	5,289	\$403.00*

Intel Core i5-7442EQ @ 2.10GHz	4,834	\$250.00*
AMD Athlon Silver 3050GF	4,545	NA
 CPU Benchmarks ▼		
Intel Core i3-1000NG4 @ 1.10GHz	4,533	NA
Intel Core i5-6442EQ @ 1.90GHz	4,519	\$250.00*
Intel Core i3-8121U @ 2.20GHz	4,366	\$595.00
Intel Core i3-8109U @ 3.00GHz	4,355	\$338.57
AMD Athlon Gold 3150U	4,232	NA
AMD Ryzen 3 3250U	4,152	NA
Intel Core i5-7287U @ 3.30GHz	4,149	NA
Intel Core i3-8145UE @ 2.20GHz	4,133	\$281.00*
Intel Core i3-10110U @ 2.10GHz	4,096	\$399.00
AMD Athlon 300U	4,051	NA
Microsoft ARM SQ1 @ 3.0 GHz	4,041	NA
AMD Ryzen Embedded R1505G	3,969	NA
AMD Ryzen 3 3200U	3,963	NA
Intel Core i7-6660U @ 2.40GHz	3,876	\$415.00*
AMD Ryzen Embedded V1202B	3,823	NA
Intel Core i3-8145U @ 2.10GHz	3,806	\$281.00*
Intel Core i3-8130U @ 2.20GHz	3,680	\$281.00*
AMD A8-7680	3,531	\$50.08*
Intel Core i3-10110Y @ 1.00GHz	3,504	\$287.00*
Intel Core i3-7167U @ 2.80GHz	3,489	NA
Intel Core i5-L16G7 @ 1.40GHz	3,358	\$281.00*
AMD Ryzen Embedded R1305G	3,329	NA
AMD Athlon Silver 3050U	3,204	NA
AMD Athlon Silver 3050e	3,029	NA
Intel Core i5-8210Y @ 1.60GHz	3,028	NA
Intel Core m3-8100Y @ 1.10GHz	3,018	\$281.00*
Intel Core i7-8500Y @ 1.50GHz	2,832	\$393.00*
AMD A6-9400	2,717	NA
AMD 3015e	2,678	NA
Intel Pentium Silver N5030 @ 1.10GHz	2,670	NA
AMD 3020e	2,637	NA
Intel Core i3-7020U @ 2.30GHz	2,590	\$281.00*
Intel Core i3-7102E @ 2.10GHz	2,521	\$225.00*
Intel Celeron N4120 @ 1.10GHz	2,509	NA
Intel Celeron N4100 @ 1.10GHz	2,461	\$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 Pentium G4400TE @ 2.40GHz	2,190	\$64.00*
Intel Celeron 4305U IF @ 2.00GHz	1,950	NA
 CPU Benchmarks ▼		
Intel Celeron G3900TE @ 2.30GHz	1,850	\$42.00*
AMD GX-420MC SOC	1,796	NA
Intel Pentium 4425Y @ 1.70GHz	1,668	\$161.00*
Intel Pentium 4415Y @ 1.60GHz	1,620	\$161.00*
Intel Celeron N4020 @ 1.10GHz	1,620	NA
Intel Celeron N4000C @ 1.10GHz	1,596	NA
AMD A9-9425	1,551	NA
Intel Celeron 3867U @ 1.80GHz	1,467	\$107.00*
Intel Celeron 5205U @ 1.90GHz	1,433	\$107.00*
Intel Celeron N4000 @ 1.10GHz	1,433	\$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
Intel Celeron 3965Y @ 1.50GHz	1,220	\$107.00*
AMD A4-9125	1,216	NA
AMD R-272F APU	1,215	NA
AMD A6-9220C	1,208	NA
AMD A9-9420e	1,106	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	785	NA
AMD G-T40R	120	NA

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