



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

PassMark - CPU Mark

Laptop & Portable CPU Performance

Updated 25th of November 2022

CPU	CPU Mark	Price (USD)
Intel Core i9-12900HX	34,890	\$606.00*
Intel Core i7-12800HX	34,370	\$457.00*
Intel Core i9-12950HX	31,958	\$590.00*
Intel Core i7-12850HX	30,112	\$428.00*
Intel Core i9-12900HK	29,069	\$635.00*
Intel Core i9-12900H	28,756	\$617.00*
Intel Core i7-12700H	26,756	\$457.00*
AMD Ryzen 9 6900HX	25,014	NA
Intel Core i7-12650H	24,619	\$457.00*
Intel Core i7-12800H	24,442	\$457.00*
AMD Ryzen 9 6900HS	24,015	NA
AMD Ryzen 7 6800H	23,847	NA
AMD Ryzen 9 PRO 6950HS	23,705	NA
AMD Ryzen 9 5980HX	23,441	NA
Intel Core i9-11980HK @ 2.60GHz	23,361	\$583.00*
Intel Xeon W-11955M @ 2.60GHz	23,304	\$623.00*
AMD Ryzen 9 PRO 6950H	23,076	NA
AMD Ryzen 7 PRO 6850H	23,070	NA

AMD Ryzen 9 5900HX		22,914	NA
AMD Ryzen 7 6800HS		22,874	NA
CPU Benchmarks			
AMD Ryzen 9 6900HS Creator Edition		22,539	NA
Apple M1 Max 10 Core 3200 MHz		22,223	NA
AMD Ryzen 9 5900HS		22,117	NA
Intel Core i9-11950H @ 2.60GHz		22,019	\$556.00*
Apple M1 Pro 10 Core 3200 MHz		22,000	NA
Intel Core i5-12500H		21,742	\$311.00*
AMD Ryzen 7 PRO 6860Z		21,535	NA
AMD Ryzen 7 5800H		21,332	NA
Intel Core i7-11850H @ 2.50GHz		21,127	\$395.00*
Intel Core i7-11800H @ 2.30GHz		21,111	\$395.00*
AMD Ryzen 9 5980HS		21,034	NA
AMD Ryzen 7 PRO 6850U		21,034	NA
Intel Core i9-11900H @ 2.50GHz		21,022	\$546.00*
AMD Ryzen 9 5900H		20,960	NA
AMD Ryzen 7 5800HS Creator Edition		20,948	NA
Intel Core i7-12700TE		20,712	\$344.00*
AMD Ryzen 7 6800U		20,673	NA
AMD Ryzen 7 5800HS		20,588	NA
Intel Core i7-1280P		20,337	\$482.00*
AMD Ryzen 5 PRO 6650H		20,103	NA
AMD Ryzen 7 PRO 6850HS		20,062	NA
AMD Ryzen 9 4900HS		19,318	NA
AMD Ryzen 9 4900H		19,233	NA
AMD Ryzen 5 6600HS Creator Edition		19,062	NA
AMD Ryzen 7 4800H		18,906	NA
AMD Ryzen 5 6600H		18,817	NA
AMD Ryzen 7 4800HS		18,773	NA
AMD Ryzen 7 5800U		18,767	NA
Intel Xeon W-11855M @ 3.20GHz		18,448	\$450.00*
Intel Core i5-1250P		18,413	NA
AMD Ryzen 7 5825U		18,280	NA
AMD Ryzen 7 Extreme Edition		18,261	NA
Intel Core i5-12450H		18,142	\$311.00*
Intel Core i7-1270P		17,704	NA
AMD Ryzen 7 4980U Microsoft Surface Edition		17,627	NA
Intel Core i5-1240P		17,579	NA
AMD Ryzen 5 6600U		17,473	NA
AMD Ryzen 7 PRO 5850U		17,361	NA
Apple M1 Pro 8 Core 3200 MHz		17,245	NA
AMD Ryzen 5 5600H		17,129	NA
Intel Core i7-1260P		17,054	NA
AMD Ryzen 7 4800U		17,025	NA
Intel Core i5-12500TE		16,584	\$205.00*
Intel Core i7-10700E @ 2.90GHz		16,418	\$330.00*

AMD Ryzen 5 PRO 6650U		16,245	NA
Intel Core i5-11500H @ 2.90GHz		16,195	\$250.00*
CPU Benchmarks			
Intel Xeon W-10885M @ 2.40GHz		16,057	\$623.00*
Intel Core i9-10980HK @ 2.40GHz		16,034	\$583.00*
Intel Core i5-11400H @ 2.70GHz		15,988	\$250.00*
AMD Ryzen 7 4850U Mobile		15,920	NA
Intel Core i7-11600H @ 2.90GHz		15,907	\$395.00*
AMD Ryzen 7 5700U		15,856	NA
Intel Core i5-11260H @ 2.60GHz		15,738	\$250.00*
Intel Core i9-10885H @ 2.40GHz		15,505	\$556.00*
AMD Ryzen 7 PRO 4750U		15,337	NA
Apple M2 8 Core 3500 MHz		15,332	NA
Intel Core i7-10875H @ 2.30GHz		15,320	\$450.00*
Intel Core i3-1220P		15,310	\$281.00*
AMD Ryzen 5 5600U		15,305	NA
AMD Ryzen 5 5560U		15,297	NA
AMD Ryzen 5 PRO 5650U		15,096	NA
Intel Core i7-10870H @ 2.20GHz		14,852	\$417.00*
AMD Ryzen 5 5625U		14,849	NA
AMD Ryzen 5 PRO 4400GE		14,795	NA
Intel Core i9-10880H @ 2.30GHz		14,736	NA
AMD Ryzen 5 4600H		14,664	NA
AMD Ryzen 5 4600HS		14,565	NA
AMD Ryzen 5 PRO 5675U		14,496	NA
Apple M1 8 Core 3200 MHz		14,359	NA
Intel Core i5-1240U		14,323	NA
Intel Core i7-1255U		13,565	\$426.00*
Intel Core i7-1265U		13,553	\$426.00*
AMD Ryzen 7 4700U		13,524	NA
Intel Core i5-1235U		13,473	\$309.00*
Intel Core i7-1250U		13,453	\$426.00*
AMD Ryzen 5 4600U		13,452	NA
AMD Ryzen 5 5500U		13,172	NA
Intel Core i3-12100TE		12,961	\$125.00*
Intel Core i7-1260U		12,935	NA
Intel Xeon W-10855M @ 2.80GHz		12,908	\$450.00*
AMD Ryzen 5 PRO 4650U		12,809	NA
Intel Core i7-11375H @ 3.30GHz		12,248	\$482.00*
Intel Core i7-10750H @ 2.60GHz		12,191	NA
Intel Core i3-1210U		12,130	NA
Intel Core i7-10850H @ 2.70GHz		12,073	\$395.00*
AMD Ryzen 5 PRO 4500U		12,049	NA
Intel Core i7-11370H @ 3.30GHz		11,937	\$426.00*
Snapdragon 8cx Gen 3 @ 3.0 GHz		11,783	NA
AMD Ryzen 3 5425U		11,544	NA
Intel Core i5-10500H @ 2.50GHz		11,531	\$250.00*

AMD Ryzen 3 PRO 5475U		11,339	NA
AMD Ryzen 3 PRO 5450U		11,248	NA
CPU Benchmarks			
Intel Core i5-11300H @ 3.10GHz		11,090	\$309.00*
AMD Ryzen 5 4500U		11,048	NA
Intel Core i5-11320H @ 3.20GHz		11,002	\$309.00*
Intel Core i7-1195G7 @ 2.90GHz		10,980	\$426.00*
AMD Ryzen 3 PRO 4200GE		10,930	NA
Intel Core i7-9700TE @ 1.80GHz		10,740	\$323.00*
Intel Core i7-1185G7 @ 3.00GHz		10,716	\$426.00*
Intel Core i5-1230U		10,692	\$309.00*
AMD Ryzen 3 5400U		10,658	NA
Intel Core i7-1165G7 @ 2.80GHz		10,483	\$426.00*
Intel Core i7-11390H @ 3.40GHz		10,483	\$426.00*
Intel Core i5-1155G7 @ 2.50GHz		10,112	\$309.00*
Intel Core i5-1145G7 @ 2.60GHz		10,105	NA
AMD Ryzen 3 PRO 4450U		10,046	NA
Intel Core i5-1135G7 @ 2.40GHz		10,030	\$309.00*
AMD Ryzen 3 5300U		9,981	NA
Intel Core i7-1185G7E @ 2.80GHz		9,980	\$431.00*
Intel Core i5-10500TE @ 2.30GHz		9,960	\$195.00*
Intel Core i3-1125G4 @ 2.00GHz		9,902	NA
Intel Core i7-1068NG7 @ 2.30GHz		9,889	\$426.00*
Intel Core i5-1038NG7 @ 2.00GHz		9,506	\$320.00*
Intel Core i7-1265UE		9,392	\$472.00*
Intel Core i7-1160G7 @ 1.20GHz		9,200	\$426.00*
Intel Core i7-9850HL @ 1.90GHz		9,112	\$395.00*
Intel Core i5-9500TE @ 2.20GHz		9,028	\$192.00*
Intel Core i5-1130G7 @ 1.10GHz		8,929	\$309.00*
Intel Core i5-10400H @ 2.60GHz		8,878	\$250.00*
Intel Core i5-10300H @ 2.50GHz		8,640	\$250.00*
Intel Core i5-10200H @ 2.40GHz		8,364	\$250.00*
Intel Core i7-8569U @ 2.80GHz		8,327	\$431.00*
Intel Core i7-1180G7 @ 1.30GHz		8,304	\$426.00*
Intel Core i7-8557U @ 1.70GHz		8,167	\$431.00*
Intel Core i7-10810U @ 1.10GHz		8,077	\$443.00*
AMD Athlon Gold PRO 4150GE		8,070	NA
Intel Core i5-8269U @ 2.60GHz		8,055	\$320.00*
Intel Core i5-8260U @ 1.60GHz		7,851	\$439.99*
Intel Core i5-9300HF @ 2.40GHz		7,571	\$250.00*
AMD Ryzen 3 4300U		7,533	NA
Intel Core i3-10100T @ 3.00GHz		7,344	\$122.00*
AMD Ryzen 7 3700C		7,145	NA
Intel Core i7-10610U @ 1.80GHz		6,976	\$409.00*
Intel Core i7-1060NG7 @ 1.20GHz		6,945	NA
AMD Ryzen 5 3450U		6,760	NA
Intel Pentium Gold 8505		6,670	NA

⌵	Snapdragon 8cx Gen 2 @ 3.0 GHz		6,448	NA
⌵	Intel Core i3-1115G4 @ 3.00GHz		6,223	\$281.00*
 CPU Benchmarks ▼				
⌵	Snapdragon 8cx Gen 2 @ 3.15 GHz		6,171	NA
⌵	AMD Ryzen 3 3350U		5,904	NA
⌵	Intel Core i5-1030NG7 @ 1.10GHz		5,858	NA
⌵	Intel Core i5-7440EQ @ 2.90GHz		5,711	\$250.00*
⌵	Intel Pentium Silver N6005 @ 2.00GHz		5,378	NA
⌵	Intel Pentium Gold 7505 @ 2.00GHz		5,293	NA
⌵	Snapdragon 8c @ 2.46 GHz		5,230	NA
⌵	AMD Ryzen 5 3500C		5,208	NA
⌵	Intel Core i7-10510Y @ 1.20GHz		5,016	\$403.00*
⌵	Intel Core i5-10210Y @ 1.00GHz		4,817	NA
⌵	AMD Athlon Silver 3050GE		4,545	NA
⌵	Intel Core i3-9100TE @ 2.20GHz		4,501	\$122.00*
⌵	Intel Pentium 6805 @ 1.10GHz		4,448	\$161.00*
⌵	Snapdragon 8cx @ 2.84 GHz		4,326	NA
⌵	Intel Core i5-6350HQ @ 2.30GHz		4,255	\$306.00*
⌵	Intel Core i3-8140U @ 2.10GHz		4,227	NA
⌵	Intel Core i3-8145UE @ 2.20GHz		4,087	\$281.00*
⌵	AMD Athlon Gold 3150U		4,011	NA
⌵	AMD Ryzen 3 3250U		3,912	NA
⌵	Intel Core i3-1000NG4 @ 1.10GHz		3,826	NA
⌵	Snapdragon 7c @ 1.96 GHz		3,628	NA
⌵	Intel Core i5-L16G7 @ 1.40GHz		3,458	\$281.00*
⌵	Snapdragon 7c Gen 2 @ 2.55 GHz		3,457	NA
⌵	Intel Pentium Silver N5020 @ 1.10GHz		3,404	NA
⌵	Intel Celeron N5100 @ 1.10GHz		3,362	NA
⌵	AMD Athlon Gold 3150C		3,292	NA
⌵	Intel Core i3-10110Y @ 1.00GHz		3,269	\$287.00*
⌵	AMD Ryzen Embedded R1305G		3,109	NA
⌵	AMD Ryzen 3 3250C		3,044	NA
⌵	Snapdragon 7c @ 2.40 GHz		3,033	NA
⌵	AMD Athlon Silver 3050U		3,003	NA
⌵	AMD Athlon Silver 3050e		2,964	NA
⌵	AMD 3015e		2,677	NA
⌵	Intel Celeron 7305		2,665	\$107.00*
⌵	Snapdragon 850 @ 2.96 GHz		2,649	NA
⌵	Intel Pentium Silver N5030 @ 1.10GHz		2,644	NA
⌵	Intel Celeron N4120 @ 1.10GHz		2,511	NA
⌵	AMD 3020e		2,451	NA
⌵	Intel Pentium 6405U @ 2.40GHz		2,379	\$161.00*
⌵	Intel Celeron 6305 @ 1.80GHz		2,062	NA
⌵	Intel Celeron 4305UE @ 2.00GHz		1,876	NA
⌵	Snapdragon 835		1,784	NA
⌵	Intel Pentium 4425Y @ 1.70GHz		1,731	\$161.00*
⌵	Intel Celeron N4020C @ 1.10GHz		1,600	NA

Intel Celeron 5205U @ 1.90GHz		1,448	\$107.00*
Intel Celeron N4000C @ 1.10GHz		1,379	NA
Home CPU Benchmarks ▼			
Intel Celeron 1020M @ 2.10GHz		1,275	NA
AMD R-272F APU		1,215	NA
Intel Pentium Dual T2390 @ 1.86GHz		745	NA
AMD E2-7015 APU		672	NA
AMD E2-7015		572	NA

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