

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 6th of October 2022

CPU	CPU Mark	Price (USD)
Intel Core i9-12900HX	35,506	\$606.00*
Intel Core i7-12800HX	34,712	\$457.00*
Intel Core i9-12950HX	31,816	\$590.00*
Intel Core i7-12850HX	31,084	\$428.00*
Intel Core i9-12900HK	29,432	\$635.00*
Intel Core i9-12900H	29,002	\$617.00*
Intel Core i7-12700H	26,900	\$457.00*
AMD Ryzen 9 6900HX	24,830	NA
Intel Core i7-12650H	24,675	\$457.00*
Intel Core i7-12800H	24,208	\$457.00*
AMD Ryzen 9 6900HS	24,042	NA
AMD Ryzen 9 PRO 6950HS	23,843	NA
AMD Ryzen 9 PRO 6950H	23,822	NA
AMD Ryzen 7 6800H	23,726	NA
AMD Ryzen 7 6800HS Creator Edition	23,635	NA
AMD Ryzen 7 PRO 6850H	23,543	NA
Intel Core i5-12600HX	23,493	\$284.00*
Intel Core i9-11980HK @ 2.60GHz	23,452	\$583.00*

AMD Ryzen 9 5900HX	22,992	NA
AMD Ryzen 7 6800HS	22,734	NA
🏠 CPU Benchmarks ▼		
Intel Core i9-11950H @ 2.60GHz	22,290	\$556.00*
AMD Ryzen 9 6900HS Creator Edition	22,265	NA
Apple M1 Max 10 Core 3200 MHz	22,247	NA
AMD Ryzen 9 5900HS	22,154	NA
Apple M1 Pro 10 Core 3200 MHz	22,035	NA
AMD Ryzen 7 PRO 6860Z	22,026	NA
Intel Core i5-12500H	21,749	\$311.00*
AMD Ryzen 9 5980HS	21,491	NA
AMD Ryzen 7 5800H	21,353	NA
Intel Core i7-11850H @ 2.50GHz	21,138	\$395.00*
Intel Core i7-11800H @ 2.30GHz	21,135	\$395.00*
Intel Core i9-11900H @ 2.50GHz	21,063	\$546.00*
AMD Ryzen 7 6800U	21,036	NA
AMD Ryzen 7 PRO 6850U	20,961	NA
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 5800HS	20,673	NA
AMD Ryzen 5 PRO 6650H	20,103	NA
AMD Ryzen 7 PRO 6850HS	20,062	NA
Intel Core i7-1280P	19,914	\$482.00*
AMD Ryzen 9 4900HS	19,335	NA
AMD Ryzen 9 4900H	19,224	NA
AMD Ryzen 5 6600H	19,148	NA
AMD Ryzen 5 6600HS Creator Edition	18,975	NA
AMD Ryzen 7 4800H	18,952	NA
AMD Ryzen 7 5800U	18,811	NA
AMD Ryzen 7 4800HS	18,790	NA
Intel Xeon W-11855M @ 3.20GHz	18,476	\$450.00*
Intel Core i5-12450H	18,362	\$311.00*
Intel Core i7-1270P	18,355	NA
AMD Ryzen 7 5825U	18,339	NA
AMD Ryzen 7 Extreme Edition	18,192	NA
AMD Ryzen 5 6600U	17,804	NA
AMD Ryzen 7 4980U Microsoft Surface Edition	17,532	NA
AMD Ryzen 7 PRO 5850U	17,397	NA
Intel Core i5-1250P	17,330	NA
Apple M1 Pro 8 Core 3200 MHz	17,291	NA
Intel Core i5-1240P	17,174	NA
AMD Ryzen 5 5600H	17,108	NA
Intel Core i7-1260P	17,085	NA
AMD Ryzen 5 PRO 6650U	17,057	NA
AMD Ryzen 7 4800U	17,004	NA
Intel Core i5-12500TE	16,865	\$205.00*

AMD Ryzen 7 PRO 5875U	16,367	NA
Intel Core i7-10700TF @ 2.00GHz	16,332	\$330.00*
Home CPU Benchmarks		
Intel Core i9-10980HK @ 2.40GHz	16,047	\$583.00*
Intel Xeon W-10885M @ 2.40GHz	16,029	\$623.00*
Intel Core i5-11400H @ 2.70GHz	16,000	\$250.00*
AMD Ryzen 7 4850U Mobile	15,920	NA
Intel Core i7-11600H @ 2.90GHz	15,907	\$395.00*
AMD Ryzen 7 5700U	15,899	NA
Intel Core i5-11260H @ 2.60GHz	15,744	\$250.00*
Intel Core i3-1220P	15,659	\$281.00*
Intel Core i9-10885H @ 2.40GHz	15,573	\$556.00*
Apple M2 8 Core 3500 MHz	15,554	NA
AMD Ryzen 5 5560U	15,408	NA
AMD Ryzen 7 PRO 4750U	15,360	NA
Intel Core i7-10875H @ 2.30GHz	15,340	\$450.00*
AMD Ryzen 5 5600U	15,307	NA
AMD Ryzen 5 PRO 5650U	15,128	NA
Intel Core i7-10870H @ 2.20GHz	14,853	\$417.00*
AMD Ryzen 5 PRO 4400GE	14,795	NA
AMD Ryzen 5 4600HS	14,741	NA
Intel Core i9-10880H @ 2.30GHz	14,735	NA
AMD Ryzen 5 4600H	14,679	NA
AMD Ryzen 5 5625U	14,507	NA
Apple M1 8 Core 3200 MHz	14,451	NA
AMD Ryzen 5 PRO 5675U	14,059	NA
AMD Ryzen 7 4700U	13,544	NA
Intel Core i7-1255U	13,484	\$426.00*
Intel Core i5-1235U	13,478	\$309.00*
AMD Ryzen 5 4600U	13,445	NA
AMD Ryzen 5 5500U	13,149	NA
Intel Core i7-1265U	13,124	\$426.00*
Intel Core i7-1260U	13,024	NA
Intel Core i3-12100TE	12,961	\$125.00*
Intel Xeon W-10855M @ 2.80GHz	12,925	\$450.00*
AMD Ryzen 5 PRO 4650U	12,818	NA
Intel Core i7-11375H @ 3.30GHz	12,236	\$482.00*
Intel Core i7-10750H @ 2.60GHz	12,233	NA
Intel Core i3-1210U	12,130	NA
Intel Core i7-10850H @ 2.70GHz	12,111	\$395.00*
AMD Ryzen 3 PRO 5475U	12,074	NA
AMD Ryzen 5 PRO 4500U	12,049	NA
Intel Core i7-11370H @ 3.30GHz	11,940	\$426.00*
Snapdragon 8cx Gen 3 @ 3.0 GHz	11,671	NA
Intel Core i3-1215U	11,603	NA
Intel Core i5-10500H @ 2.50GHz	11,580	\$250.00*
Intel Core i7-1250U	11,563	\$426.00*

Intel Core i7-9750HF @ 2.60GHz	11,159	\$395.00*
AMD Rv7en 3 PRO 5450U	11,082	NA
Home CPU Benchmarks		
Intel Core i5-11300H @ 3.10GHz	11,051	\$309.00*
Intel Core i7-1195G7 @ 2.90GHz	10,969	\$426.00*
AMD Ryzen 3 PRO 4200GE	10,930	NA
AMD Ryzen 3 5400U	10,831	NA
Intel Core i5-11320H @ 3.20GHz	10,802	\$309.00*
Intel Core i7-1185G7 @ 3.00GHz	10,763	\$426.00*
Intel Core i7-9700TE @ 1.80GHz	10,740	\$323.00*
Intel Core i7-11390H @ 3.40GHz	10,641	\$426.00*
Intel Core i5-1230U	10,583	\$309.00*
Intel Core i7-1165G7 @ 2.80GHz	10,490	\$426.00*
Intel Core i5-1145G7 @ 2.60GHz	10,191	NA
AMD Ryzen 3 PRO 4450U	10,056	NA
Intel Core i5-1135G7 @ 2.40GHz	10,047	\$309.00*
Intel Core i5-1155G7 @ 2.50GHz	10,018	\$309.00*
Intel Core i7-1185G7E @ 2.80GHz	9,980	\$431.00*
Intel Core i3-1125G4 @ 2.00GHz	9,964	NA
Intel Core i5-10500TE @ 2.30GHz	9,960	\$195.00*
AMD Ryzen 3 5300U	9,934	NA
Intel Core i7-1068NG7 @ 2.30GHz	9,917	\$426.00*
Intel Core i5-1038NG7 @ 2.00GHz	9,527	\$320.00*
Intel Core i7-1160G7 @ 1.20GHz	9,270	\$426.00*
Intel Core i5-9500TE @ 2.20GHz	9,212	\$192.00*
Intel Core i7-9850HL @ 1.90GHz	9,112	\$395.00*
Intel Core i5-10400H @ 2.60GHz	8,855	\$250.00*
Intel Core i5-1130G7 @ 1.10GHz	8,853	\$309.00*
Intel Core i5-10300H @ 2.50GHz	8,645	\$250.00*
Intel Core i7-1180G7 @ 1.30GHz	8,514	\$426.00*
Intel Core i5-1035G7 @ 1.20GHz	8,483	\$320.00*
Intel Core i7-8569U @ 2.80GHz	8,479	\$431.00*
Intel Core i5-10200H @ 2.40GHz	8,358	\$250.00*
Intel Core i7-8557U @ 1.70GHz	8,192	\$431.00*
Intel Core i5-1035G4 @ 1.10GHz	8,110	\$309.00*
AMD Athlon Gold PRO 4150GE	8,070	NA
Intel Core i5-8269U @ 2.60GHz	8,055	\$320.00*
Intel Core i7-10810U @ 1.10GHz	7,998	\$443.00*
Intel Core i5-8260U @ 1.60GHz	7,897	\$439.99*
Intel Core i5-8257U @ 1.40GHz	7,666	\$320.00*
AMD Ryzen 7 3780U	7,651	NA
Intel Core i5-9300HF @ 2.40GHz	7,590	\$250.00*
AMD Ryzen 3 4300U	7,559	NA
AMD Ryzen 5 3580U	7,383	NA
Intel Core i3-10100T @ 3.00GHz	7,363	\$122.00*
AMD Ryzen 7 3700C	7,145	NA
Intel Core i7-10610U @ 1.80GHz	7,036	\$409.00*

AMD Ryzen 5 3450U	6,773	NA
Intel Pentium Gold 8505	6,670	NA
🏠 CPU Benchmarks ▼		
Snapdragon 8cx Gen 2 @ 3.0 GHz	6,448	NA
Intel Core i3-1115G4 @ 3.00GHz	6,237	\$281.00*
Intel Core i7-8565UC @ 1.80GHz	6,187	NA
Snapdragon 8cx Gen 2 @ 3.15 GHz	6,171	NA
Intel Core i5-1030NG7 @ 1.10GHz	5,900	NA
AMD Ryzen 3 3350U	5,897	NA
Intel Core i5-7440EQ @ 2.90GHz	5,711	\$250.00*
Intel Core i5-8365UE @ 1.60GHz	5,555	\$297.00*
Intel Pentium Gold 7505 @ 2.00GHz	5,283	NA
AMD Ryzen 5 3500C	5,214	NA
Snapdragon 8c @ 2.46 GHz	5,181	NA
Intel Core i7-8665UE @ 1.70GHz	5,017	\$409.00*
Intel Core i7-10510Y @ 1.20GHz	5,016	\$403.00*
Microsoft ARM SQ1 @ 3.0 GHz	4,996	NA
Intel Core i5-10210Y @ 1.00GHz	4,964	NA
AMD Athlon Silver 3050GE	4,545	NA
Intel Pentium Silver N6005 @ 2.00GHz	4,516	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	3,988	NA
AMD Ryzen 3 3250U	3,935	NA
Intel Core i3-1000NG4 @ 1.10GHz	3,870	NA
Snapdragon 7c @ 1.96 GHz	3,628	NA
Intel Core i5-L16G7 @ 1.40GHz	3,445	\$281.00*
Intel Pentium Silver N5020 @ 1.10GHz	3,404	NA
Snapdragon 7c Gen 2 @ 2.55 GHz	3,346	NA
Intel Celeron N5100 @ 1.10GHz	3,339	NA
Intel Core i3-10110Y @ 1.00GHz	3,222	\$287.00*
AMD Athlon Gold 3150C	3,205	NA
AMD Ryzen Embedded R1305G	3,109	NA
AMD Ryzen 3 3250C	3,044	NA
AMD Athlon Silver 3050U	3,040	NA
Snapdragon 7c @ 2.40 GHz	2,979	NA
AMD Athlon Silver 3050e	2,952	NA
AMD A6-9400	2,717	NA
Intel Celeron 7305	2,665	\$107.00*
AMD 3015e	2,661	NA
Intel Pentium Silver N5030 @ 1.10GHz	2,650	NA
Snapdragon 850 @ 2.96 GHz	2,544	NA
Intel Celeron N4120 @ 1.10GHz	2,502	NA

Intel Pentium 6405U @ 2.40GHz	2,373	\$161.00*
Intel Celeron 6305 @ 1.80GHz	2,062	NA
 CPU Benchmarks 		
Snapdragon 835	1,784	NA
Intel Pentium 4425Y @ 1.70GHz	1,732	\$161.00*
Intel Celeron N4020C @ 1.10GHz	1,652	NA
Intel Celeron N4020 @ 1.10GHz	1,563	NA
Intel Celeron 5205U @ 1.90GHz	1,448	\$107.00*
Intel Celeron N4000C @ 1.10GHz	1,360	NA
Intel Pentium A1020 @ 2.41GHz	1,290	NA
Intel Celeron 1020M @ 2.10GHz	1,275	NA
AMD R-272F APU	1,215	NA
AMD PRO A4-4350B	1,109	NA
// Intel Pentium Dual T2390 @ 1.86GHz	745	NA

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