

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.



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CPU Mark	Price Performance	Sorted by Date
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PassMark - CPU Mark

Laptop & Portable CPU Performance

Updated 1st of June 2022

CPU	CPU Mark	Price (USD)
Intel Core i9-12950HX	39,136	\$590.00*
Intel Core i9-12900H	29,762	\$617.00*
Intel Core i9-12900HK	28,127	\$635.00*
Intel Core i7-12700H	27,575	\$457.00*
AMD Ryzen 9 6900HX	24,585	NA
AMD Ryzen 9 6900HS	24,415	NA
AMD Ryzen 7 PRO 6850U	24,352	NA
Intel Xeon W-11955M @ 2.60GHz	23,859	\$623.00*
Intel Core i9-11980HK @ 2.60GHz	23,627	\$583.00*
AMD Ryzen 9 5980HX	23,604	NA

 **CPU Benchmarks** ▼

Intel Core i5-12500H	23,222	\$311.00*
AMD Ryzen 9 5900HX	23,131	NA
Intel Core i9-11950H @ 2.60GHz	22,582	\$556.00*
Apple M1 Max 10 Core 3200 MHz	22,519	NA
Apple M1 Pro 10 Core 3200 MHz	22,253	NA
AMD Ryzen 9 5900HS	22,203	NA
AMD Ryzen 9 5980HS	21,491	NA
AMD Ryzen 7 5800H	21,446	NA
Intel Core i7-11800H @ 2.30GHz	21,300	\$395.00*
Intel Core i9-11900H @ 2.50GHz	21,169	\$546.00*
Intel Core i7-11850H @ 2.50GHz	21,158	\$395.00*
AMD Ryzen 9 5900H	20,960	NA
AMD Ryzen 7 5800HS Creator Edition	20,948	NA
AMD Ryzen 7 5800HS	20,709	NA
Intel Core i7-1270P	19,915	NA
Intel Core i5-12450H	19,820	\$311.00*
AMD Ryzen 7 PRO 5875U	19,576	NA
AMD Ryzen 9 4900HS	19,421	NA
AMD Ryzen 9 4900H	19,335	NA
Intel Core i7-12800H	19,052	\$457.00*
AMD Ryzen 7 4800H	19,025	NA
Intel Xeon W-11855M @ 3.20GHz	18,914	\$450.00*
AMD Ryzen 7 5800U	18,876	NA
AMD Ryzen 7 4800HS	18,842	NA
Intel Core i5-1240P	18,754	NA
AMD Ryzen 5 PRO 6650U	18,649	NA
AMD Ryzen 7 5825U	18,377	NA
Intel Core i3-1220P	18,329	\$281.00*
AMD Ryzen 7 Extreme Edition	18,209	NA
AMD Ryzen 7 PRO 5850U	17,514	NA
Apple M1 Pro 8 Core 3200 MHz	17,461	NA
AMD Ryzen 5 5600H	17,204	NA
Intel Core i7-1260P	17,154	NA
AMD Ryzen 7 4800U	17,063	NA
Intel Core i7-10700TE @ 2.00GHz	16,332	\$330.00*
Intel Core i7-10700E @ 2.90GHz	16,257	\$330.00*
Intel Core i9-10980HK @ 2.40GHz	16,252	\$583.00*
Intel Core i5-11500H @ 2.90GHz	16,233	\$250.00*
AMD Ryzen 7 5700U	16,083	NA
Intel Core i5-11400H @ 2.70GHz	16,069	\$250.00*
Intel Xeon W-10885M @ 2.40GHz	16,041	\$623.00*
AMD Ryzen 7 4850U Mobile	15,920	NA
Intel Core i7-11600H @ 2.90GHz	15,907	\$395.00*
Intel Core i5-1235U	15,759	\$309.00*
Intel Core i9-10885H @ 2.40GHz	15,658	\$556.00*
AMD Ryzen 7 PRO 4750U	15,495	NA

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Intel Xeon E-2286M @ 2.40GHz	15,249	\$1,373.18*
AMD Ryzen 5 PRO 5650U	15,237	NA
Intel Core i7-10870H @ 2.20GHz	14,979	\$417.00*
AMD Ryzen 5 5625U	14,887	NA
AMD Ryzen 5 PRO 4400GE	14,795	NA
AMD Ryzen 5 4600HS	14,735	NA
Intel Core i9-10880H @ 2.30GHz	14,735	NA
AMD Ryzen 5 4600H	14,724	NA
Apple M1 8 Core 3200 MHz	14,661	NA
Intel Core i7-1280P	14,586	\$482.00*
AMD Ryzen 7 4700U	13,624	NA
AMD Ryzen 5 4600U	13,438	NA
AMD Ryzen 5 PRO 5675U	13,347	NA
AMD Ryzen 5 5500U	13,195	NA
Intel Core i3-1215U	13,007	NA
Intel Xeon W-10855M @ 2.80GHz	12,955	\$450.00*
AMD Ryzen 5 PRO 4650U	12,839	NA
Intel Core i7-1265U	12,504	\$426.00*
Intel Core i7-10750H @ 2.60GHz	12,328	NA
AMD Ryzen 3 PRO 5475U	12,266	NA
Intel Core i7-11375H @ 3.30GHz	12,258	\$482.00*
Intel Core i7-10850H @ 2.70GHz	12,129	\$395.00*
Intel Core i7-11370H @ 3.30GHz	12,056	\$426.00*
AMD Ryzen 5 PRO 4500U	12,049	NA
AMD Ryzen 3 5400U	11,839	NA
Intel Xeon E-2276M @ 2.80GHz	11,818	\$450.00*
Intel Core i5-10500H @ 2.50GHz	11,561	\$250.00*
Intel Core i7-9850H @ 2.60GHz	11,478	\$1,305.76*
AMD Ryzen 3 PRO 5450U	11,453	NA
Intel Core i7-9750HF @ 2.60GHz	11,243	\$395.00*
Intel Core i7-1185G7E @ 2.80GHz	11,114	\$431.00*
AMD Ryzen 5 4500U	11,092	NA
Intel Core i5-11300H @ 3.10GHz	10,991	\$309.00*
AMD Ryzen 3 PRO 4200GE	10,930	NA
Intel Core i7-1185G7 @ 3.00GHz	10,911	\$426.00*
Intel Core i7-1195G7 @ 2.90GHz	10,891	\$426.00*
Intel Core i7-9700TE @ 1.80GHz	10,826	\$323.00*
Intel Core i7-11390H @ 3.40GHz	10,816	\$426.00*
Intel Core i5-11320H @ 3.20GHz	10,660	\$309.00*
Intel Core i7-1165G7 @ 2.80GHz	10,548	\$426.00*
Intel Core i7-1160G7 @ 1.20GHz	10,462	\$426.00*
Intel Core i5-1145G7 @ 2.60GHz	10,437	NA
Intel Core i5-1155G7 @ 2.50GHz	10,222	\$309.00*
AMD Ryzen 3 PRO 4450U	10,158	NA
Intel Core i5-1135G7 @ 2.40GHz	10,096	\$309.00*
Intel Core i7-1068NG7 @ 2.30GHz	10,093	\$426.00*

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AMD Ryzen 3 5425U	9,989	NA
Intel Core i5-10500TE @ 2.30GHz	9,960	\$195.00*
Intel Core i5-1038NG7 @ 2.00GHz	9,637	\$320.00*
Intel Core i5-1130G7 @ 1.10GHz	9,508	\$309.00*
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	8,895	\$250.00*
Intel Core i5-10300H @ 2.50GHz	8,673	\$250.00*
Intel Core i7-1065G7 @ 1.30GHz	8,631	\$426.00*
Intel Core i7-8569U @ 2.80GHz	8,523	\$431.00*
Intel Core i5-10200H @ 2.40GHz	8,420	\$250.00*
Intel Core i5-1035G7 @ 1.20GHz	8,369	\$320.00*
Intel Core i5-9400H @ 2.50GHz	8,293	\$250.00*
Intel Core i7-8557U @ 1.70GHz	8,225	\$431.00*
Intel Core i5-1035G4 @ 1.10GHz	8,222	\$309.00*
Intel Core i7-10810U @ 1.10GHz	8,211	\$443.00*
Intel Core i5-8269U @ 2.60GHz	8,055	\$320.00*
Intel Core i5-8279U @ 2.40GHz	7,946	\$320.00*
Intel Core i5-8260U @ 1.60GHz	7,854	\$439.99*
Intel Core i5-1035G1 @ 1.00GHz	7,706	\$297.00*
Intel Core i5-8257U @ 1.40GHz	7,681	\$320.00*
Intel Core i5-9300HF @ 2.40GHz	7,667	\$250.00*
AMD Ryzen 7 3780U	7,651	NA
AMD Ryzen 3 4300U	7,573	NA
AMD Ryzen 5 3580U	7,520	NA
Intel Core i7-7820EQ @ 3.00GHz	7,453	\$378.00*
Intel Core i3-10100T @ 3.00GHz	7,407	\$122.00*
AMD Ryzen 7 3700C	7,145	NA
AMD Ryzen 3 PRO 3200GE	7,071	NA
Intel Core i7-10610U @ 1.80GHz	7,064	\$409.00*
Intel Core i7-1060NG7 @ 1.20GHz	7,057	NA
AMD Ryzen 5 PRO 3500U	6,974	NA
Intel Core i7-10510U @ 1.80GHz	6,814	\$409.00*
AMD Ryzen 5 3450U	6,811	NA
Intel Pentium Gold 8505	6,771	NA
Intel Core i5-10310U @ 1.70GHz	6,625	\$297.00*
Intel Core i7-1180G7 @ 1.30GHz	6,607	\$426.00*
Intel Core i5-10210U @ 1.60GHz	6,392	\$702.62*
Intel Core i3-1115G4 @ 3.00GHz	6,265	\$281.00*
Intel Core i7-8565UC @ 1.80GHz	6,187	NA
Intel Core i5-1030NG7 @ 1.10GHz	6,166	NA
AMD Ryzen 3 3350U	5,918	NA
AMD Ryzen 3 3300U	5,805	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	5,345	NA
AMD Ryzen 5 3500U	5,311	NA

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Intel Core i7-8665UE @ 1.70GHz	5,017	\$409.00*
Intel Core i7-10510Y @ 1.20GHz	5,016	\$403.00*
Intel Pentium Silver N6005 @ 2.00GHz	4,685	NA
Microsoft ARM SQ1 @ 3.0 GHz	4,625	NA
Intel Core i5-6442EQ @ 1.90GHz	4,598	\$250.00*
AMD Athlon Silver 3050GE	4,545	NA
Intel Core i3-9100TE @ 2.20GHz	4,501	\$122.00*
Intel Pentium 6805 @ 1.10GHz	4,394	\$161.00*
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	4,023	NA
Intel Core i3-10110U @ 2.10GHz	3,993	\$434.17*
AMD Ryzen 3 3250U	3,981	NA
AMD Ryzen Embedded R1505G	3,966	NA
AMD Athlon 300U	3,959	NA
Intel Core i3-1000NG4 @ 1.10GHz	3,829	NA
Intel Core i5-L16G7 @ 1.40GHz	3,421	\$281.00*
Intel Pentium Silver N5020 @ 1.10GHz	3,404	NA
Intel Core i3-10110Y @ 1.00GHz	3,278	\$287.00*
AMD Ryzen Embedded R1305G	3,209	NA
Intel Celeron N5100 @ 1.10GHz	3,200	NA
AMD Athlon Silver 3050U	3,048	NA
AMD Athlon Silver 3050e	2,966	NA
AMD Ryzen 3 3250C	2,917	NA
AMD 3015e	2,720	NA
AMD A6-9400	2,717	NA
Intel Pentium Silver N5030 @ 1.10GHz	2,709	NA
Intel Core i3-7102E @ 2.10GHz	2,521	\$225.00*
Intel Celeron N4120 @ 1.10GHz	2,505	NA
AMD 3020e	2,491	NA
Intel Pentium 6405U @ 2.40GHz	2,364	\$161.00*
Intel Core i3-6102E @ 1.90GHz	2,349	\$225.00*
Intel Celeron 6305 @ 1.80GHz	2,163	NA
Intel Celeron 4305UE @ 2.00GHz	1,876	NA
Intel Pentium 4425Y @ 1.70GHz	1,709	\$161.00*
Intel Celeron N4000C @ 1.10GHz	1,611	NA
Intel Celeron N4020 @ 1.10GHz	1,579	NA
Intel Celeron 5205U @ 1.90GHz	1,414	\$107.00*
Intel Celeron 1020M @ 2.10GHz	1,275	NA
Intel Pentium A1020 @ 2.41GHz	1,265	NA
AMD R-272F APU	1,215	NA
AMD PRO A4-4350B	1,153	NA
AMD A4-9120e	899	NA
AMD A4-9120C	867	NA

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