

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 July 2022

CPU	CPU Mark	Price (USD)
Intel Core i7-12800HX	36,511	\$457.00*
Intel Core i9-12900HX	32,359	\$606.00*
Intel Core i9-12950HX	31,161	\$590.00*
Intel Core i7-12850HX	31,111	\$428.00*
Intel Core i9-12900HK	29,390	\$635.00*
Intel Core i9-12900H	29,272	\$617.00*
Intel Core i7-12700H	27,203	\$457.00*
Intel Core i7-12650H	24,746	\$457.00*
AMD Ryzen 7 6800HS Creator Edition	24,692	NA
Intel Core i5-12600HX	24,689	\$284.00*

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AMD Ryzen 7 PRO 6850H	24,325	NA
AMD Ryzen 7 6800HS	23,686	NA
Intel Xeon W-11955M @ 2.60GHz	23,436	\$623.00*
AMD Ryzen 9 PRO 6950HS	23,392	NA
AMD Ryzen 9 5980HX	23,319	NA
AMD Ryzen 7 6800H	23,299	NA
Intel Core i7-12800H	23,251	\$457.00*
AMD Ryzen 9 5900HX	23,077	NA
AMD Ryzen 7 PRO 6850U	22,608	NA
Intel Core i5-12500H	22,532	\$311.00*
Intel Core i9-11950H @ 2.60GHz	22,413	\$556.00*
Apple M1 Max 10 Core 3200 MHz	22,337	NA
AMD Ryzen 9 5900HS	22,167	NA
Apple M1 Pro 10 Core 3200 MHz	22,150	NA
Intel Core i5-1250P	22,148	NA
AMD Ryzen 9 5980HS	21,491	NA
AMD Ryzen 7 5800H	21,364	NA
Intel Core i7-11800H @ 2.30GHz	21,223	\$395.00*
Intel Core i9-11900H @ 2.50GHz	21,197	\$546.00*
Intel Core i7-11850H @ 2.50GHz	21,168	\$395.00*
Intel Core i5-12600H	21,000	\$311.00*
AMD Ryzen 9 5900H	20,960	NA
AMD Ryzen 7 5800HS Creator Edition	20,948	NA
AMD Ryzen 7 6800U	20,676	NA
AMD Ryzen 7 5800HS	20,653	NA
AMD Ryzen 5 6600H	20,179	NA
Intel Core i7-1280P	19,939	\$482.00*
AMD Ryzen 9 4900HS	19,362	NA
AMD Ryzen 9 4900H	19,332	NA
AMD Ryzen 7 PRO 6850HS	19,069	NA
AMD Ryzen 7 4800H	18,985	NA
AMD Ryzen 7 5800U	18,837	NA
AMD Ryzen 7 4800HS	18,825	NA
Intel Xeon W-11855M @ 3.20GHz	18,810	\$450.00*
Intel Core i5-12450H	18,543	\$311.00*
Intel Core i3-1220P	18,329	\$281.00*
AMD Ryzen 7 5825U	18,276	NA
AMD Ryzen 7 Extreme Edition	18,192	NA
Intel Core i7-1270P	18,005	NA
Intel Core i5-1240P	17,894	NA
AMD Ryzen 7 PRO 5850U	17,468	NA
Apple M1 Pro 8 Core 3200 MHz	17,321	NA
AMD Ryzen 7 PRO 5875U	17,192	NA
Intel Core i7-1260P	17,188	NA
AMD Ryzen 5 5600H	17,167	NA
AMD Ryzen 5 5560U	17,084	NA
AMD Ryzen 7 4800U	16,999	NA



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Intel Core i7-10700TE @ 2.00GHz	16,332	\$330.00*
Intel Core i7-10700F @ 2.90GHz	16,257	\$330.00*
Intel Xeon W-10885M @ 2.40GHz	16,084	\$623.00*
Intel Core i9-10980HK @ 2.40GHz	16,079	\$583.00*
Intel Core i5-11400H @ 2.70GHz	16,017	\$250.00*
AMD Ryzen 7 5700U	15,952	NA
AMD Ryzen 7 4850U Mobile	15,920	NA
Intel Core i7-11600H @ 2.90GHz	15,907	\$395.00*
Intel Core i9-10885H @ 2.40GHz	15,634	\$556.00*
AMD Ryzen 5 5600U	15,462	NA
AMD Ryzen 7 PRO 4750U	15,423	NA
Intel Core i7-10875H @ 2.30GHz	15,384	\$450.00*
Intel Core i5-11260H @ 2.60GHz	15,295	\$250.00*
AMD Ryzen 5 PRO 5650U	15,246	NA
Apple M2 8 Core 3500 MHz	15,228	NA
Intel Core i7-10870H @ 2.20GHz	14,944	\$417.00*
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	14,708	NA
AMD Ryzen 5 5625U	14,621	NA
Apple M1 8 Core 3200 MHz	14,554	NA
Intel Core i5-1235U	13,960	\$309.00*
AMD Ryzen 7 4700U	13,615	NA
AMD Ryzen 5 4600U	13,438	NA
AMD Ryzen 5 PRO 5675U	13,347	NA
AMD Ryzen 5 5500U	13,177	NA
Intel Core i7-1255U	13,057	\$426.00*
Intel Xeon W-10855M @ 2.80GHz	12,936	\$450.00*
Intel Core i7-1265U	12,906	\$426.00*
AMD Ryzen 5 PRO 4650U	12,839	NA
Intel Core i7-10750H @ 2.60GHz	12,293	NA
Intel Core i7-11375H @ 3.30GHz	12,258	\$482.00*
Intel Core i3-1210U	12,130	NA
Intel Core i7-10850H @ 2.70GHz	12,120	\$395.00*
AMD Ryzen 5 PRO 4500U	12,049	NA
AMD Ryzen 3 PRO 5475U	12,012	NA
Intel Core i7-11370H @ 3.30GHz	11,971	\$426.00*
Intel Core i3-1215U	11,928	NA
AMD Ryzen 3 5400U	11,871	NA
Intel Core i5-10500H @ 2.50GHz	11,639	\$250.00*
AMD Ryzen 3 PRO 5450U	11,563	NA
Intel Core i7-9750HF @ 2.60GHz	11,159	\$395.00*
AMD Ryzen 5 4500U	11,073	NA
Intel Core i5-11300H @ 3.10GHz	11,023	\$309.00*
AMD Ryzen 3 PRO 4200GE	10,930	NA



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Intel Core i7-9700TE @ 1.80GHz	10,826	\$323.00*
Intel Core i5-11320H @ 3.20GHz	10,723	\$309.00*
Intel Core i7-11390H @ 3.40GHz	10,614	\$426.00*
Intel Core i7-1165G7 @ 2.80GHz	10,509	\$426.00*
Intel Core i5-1155G7 @ 2.50GHz	10,231	\$309.00*
Intel Core i5-1145G7 @ 2.60GHz	10,214	NA
AMD Ryzen 3 5425U	10,203	NA
AMD Ryzen 3 PRO 4450U	10,169	NA
Intel Core i5-1135G7 @ 2.40GHz	10,078	\$309.00*
Intel Core i7-1068NG7 @ 2.30GHz	10,057	\$426.00*
Intel Core i7-10710U @ 1.10GHz	10,019	\$644.99*
AMD Ryzen 3 5300U	10,002	NA
Intel Core i5-10500TE @ 2.30GHz	9,960	\$195.00*
Intel Core i3-1125G4 @ 2.00GHz	9,912	NA
Intel Core i5-1230U	9,896	\$309.00*
Intel Core i5-1038NG7 @ 2.00GHz	9,629	\$320.00*
Intel Core i7-1160G7 @ 1.20GHz	9,571	\$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	8,954	\$250.00*
Intel Core i5-1130G7 @ 1.10GHz	8,931	\$309.00*
Intel Core i7-1180G7 @ 1.30GHz	8,837	\$426.00*
Intel Core i5-10300H @ 2.50GHz	8,655	\$250.00*
Intel Core i7-8569U @ 2.80GHz	8,626	\$431.00*
Intel Core i5-1035G7 @ 1.20GHz	8,497	\$320.00*
Intel Core i5-10200H @ 2.40GHz	8,391	\$250.00*
Intel Core i7-8557U @ 1.70GHz	8,225	\$431.00*
Intel Core i5-1035G4 @ 1.10GHz	8,193	\$309.00*
Intel Core i5-8269U @ 2.60GHz	8,055	\$320.00*
Intel Core i7-10810U @ 1.10GHz	8,012	\$443.00*
Intel Core i5-8260U @ 1.60GHz	7,854	\$439.99*
Intel Core i5-8279U @ 2.40GHz	7,782	\$320.00*
Intel Core i5-8257U @ 1.40GHz	7,682	\$320.00*
AMD Ryzen 7 3780U	7,651	NA
Intel Core i5-9300HF @ 2.40GHz	7,617	\$250.00*
Intel Core i5-1035G1 @ 1.00GHz	7,615	\$297.00*
AMD Ryzen 3 4300U	7,573	NA
Intel Core i3-10100T @ 3.00GHz	7,415	\$122.00*
AMD Ryzen 5 3580U	7,383	NA
AMD Ryzen 7 3700C	7,145	NA
Intel Core i7-10610U @ 1.80GHz	7,013	\$409.00*
Intel Core i7-1060NG7 @ 1.20GHz	6,971	NA
Intel Core i7-10510U @ 1.80GHz	6,788	\$409.00*
AMD Ryzen 5 3450U	6,775	NA
Intel Pentium Gold 8505	6,771	NA
Intel Core i5-10310U @ 1.70GHz	6,553	\$297.00*

 **CPU Benchmarks** ▼

Intel Core i7-8565UC @ 1.80GHz	6,187	NA
Intel Core i5-1030NG7 @ 1.10GHz	6,077	NA
AMD Ryzen 3 3300U	5,778	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	5,286	NA
AMD Ryzen 5 3500C	5,214	NA
Intel Core i3-1005G1 @ 1.20GHz	5,088	\$281.00*
Intel Core i7-8665UE @ 1.70GHz	5,017	\$409.00*
Intel Core i7-10510Y @ 1.20GHz	5,016	\$403.00*
Intel Core i5-10210Y @ 1.00GHz	4,964	NA
Microsoft ARM SQ1 @ 3.0 GHz	4,915	NA
Intel Core i5-6442EQ @ 1.90GHz	4,598	\$250.00*
Intel Pentium Silver N6005 @ 2.00GHz	4,586	NA
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	3,999	NA
Intel Core i3-10110U @ 2.10GHz	3,982	\$434.17*
AMD Ryzen 3 3250U	3,968	NA
Intel Core i3-1000NG4 @ 1.10GHz	3,831	NA
Intel Core i5-L16G7 @ 1.40GHz	3,421	\$281.00*
Intel Pentium Silver N5020 @ 1.10GHz	3,404	NA
Intel Celeron N5100 @ 1.10GHz	3,284	NA
Intel Core i3-10110Y @ 1.00GHz	3,278	\$287.00*
AMD Ryzen Embedded R1305G	3,122	NA
AMD Athlon Silver 3050U	3,048	NA
AMD Athlon Silver 3050e	2,955	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	2,690	NA
Intel Celeron 7305	2,665	\$107.00*
Intel Celeron N4120 @ 1.10GHz	2,517	NA
AMD 3020e	2,474	NA
Intel Pentium 6405U @ 2.40GHz	2,370	\$161.00*
Intel Core i3-6102E @ 1.90GHz	2,349	\$225.00*
AMD Athlon Gold 3150C	2,310	NA
Intel Celeron 6305 @ 1.80GHz	2,154	NA
Intel Celeron 4305UE @ 2.00GHz	1,876	NA
Intel Pentium 4425Y @ 1.70GHz	1,721	\$161.00*
Intel Celeron N4020 @ 1.10GHz	1,572	NA
Intel Celeron N4020C @ 1.10GHz	1,550	NA

Intel Celeron 1020M @ 2.10GHz	1,275	NA
Intel Pentium A1020 @ 2.41GHz	1,265	NA
CPU Benchmarks ▼		
AMD PRO A4-4350B	1,106	NA
AMD A4-9120C	869	NA

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