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 23rd of August 2023

CPU	CPU Mark	Price (USD)
AMD Ryzen 9 7945HX	57,218	NA
Intel Core i9-13980HX	48,450	$668.00*
AMD Ryzen 9 7845HX	46,774	NA
Intel Core i9-13950HX	45,732	$590.00*
Intel Core i9-13900HX	45,040	$668.00*
Intel Core i7-13850HX	38,900	$428.00*
Intel Core i9-12900HX	34,909	$606.00*
Intel Core i7-13700HX	34,678	$485.00*
Intel Core i7-12800HX	33,386	$457.00*
Intel Core i9-13900HK	33,167	$697.00*
Intel Core i9-12950HX	33,026	$590.00*
AMD Ryzen 7 7745HX	32,902	NA
Intel Core i7-13650HX	32,177	$485.00*
Intel Core i9-13905H	31,441	$697.00*
AMD Ryzen 9 7940H	31,099	NA
AMD Ryzen 9 7940HS	31,033	NA
Intel Core i7-12850HX	30,534	$428.00*
Intel Core i9-13900H	30,305	$617.00*
AMD Ryzen 7 7840HS	30,167	NA
Intel Core i5-13600HX	29,864	$284.00*
AMD Ryzen 7 7840H	29,134	NA
Intel Core i7-13700H	28,838	$502.00*
Intel Core i9-12900H	28,748	$617.00*
Intel Core i5-13500HX	28,504	$326.00*
AMD Ryzen 9 PRO 7940HS	28,367	NA

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CPU	Score	Price
Intel Core i9-12900HK	28,161	$635.00*
Intel Core i7-13800H	27,961	$457.00*
Intel Core i7-13620H	27,057	$502.00*
Intel Core i7-12700H	26,569	$457.00*
Apple M2 Pro 12 Core 3480 MHz	26,452	NA
Intel Core i5-13450HX	26,385	$326.00*
Apple M2 Max 12 Core 3680 MHz	26,259	NA
Intel Core i5-13600H	25,354	$311.00*
AMD Ryzen 9 6900HX	24,969	NA
Intel Core i7-12800H	24,951	$457.00*
AMD Ryzen 7 PRO 7840HS	24,445	NA
AMD Ryzen 7 7735H	24,427	NA
AMD Ryzen 7 7735HS	24,229	NA
AMD Ryzen 9 6900HS	24,044	NA
Intel Core i5-12600HX	23,908	$284.00*
AMD Ryzen 7 6800H	23,783	NA
Intel Core i7-13705H	23,753	$502.00*
Intel Core i7-12650H	23,740	$457.00*
AMD Ryzen 9 5980HX	23,694	NA
AMD Ryzen 5 7640HS	23,557	NA
AMD Ryzen 9 PRO 6950HS	23,295	NA
AMD Ryzen 7 7736U	23,163	NA
Intel Core i9-11980HK @ 2.60GHz	23,115	$583.00*
Intel Xeon W-11955M @ 2.60GHz	23,050	$623.00*
Intel Core i5-12600H	23,012	$311.00*
AMD Ryzen 7 6800HS	23,002	NA
AMD Ryzen 7 PRO 6850H	22,942	NA
Intel Core i5-13500H	22,915	NA
AMD Ryzen 9 5900HX	22,784	NA
AMD Ryzen 7 6800HS Creator Edition	22,624	NA
AMD Ryzen 9 PRO 6950H	22,570	NA
Intel Core i7-1370P	22,464	NA
AMD Ryzen 9 6900HS Creator Edition	22,402	NA
Apple M1 Max 10 Core 3200 MHz	22,080	NA
AMD Ryzen 7 PRO 6850HS	22,044	NA
Intel Core i5-1350P	21,969	$320.00*
AMD Ryzen 9 5900HS	21,912	NA
Apple M1 Pro 10 Core 3200 MHz	21,870	NA
Intel Core i5-12500H	21,659	$311.00*
Apple M2 Pro 10 Core 3480 MHz	21,641	NA
Intel Core i9-11950H @ 2.60GHz	21,549	$556.00*
AMD Ryzen 9 5980HS	21,232	NA
AMD Ryzen 7 5800H	21,210	NA
AMD Ryzen 7 5800HS Creator Edition	21,166	NA
AMD Ryzen 7 7735U	21,043	NA
Intel Core i9-11900H @ 2.50GHz	21,011	$546.00*
AMD Ryzen 7 PRO 6860Z	20,994	NA
AMD Ryzen 9 5900H	20,960	NA
AMD Ryzen 7 PRO 6850U	20,917	NA
Intel Core i7-11800H @ 2.30GHz	20,838	$395.00*
Intel Core i7-11850H @ 2.50GHz	20,829	$395.00*
Intel Core i5-1340P	20,701	$353.00*
Intel Core i5-1250P	20,701	NA
AMD Ryzen 7 6800U	20,640	NA

AMD Ryzen 7 5800HS	20,511	NA
Intel Core i7-1280P	20,383	$482.00*
AMD Ryzen 5 7540U	20,083	NA
AMD Ryzen 5 PRO 7540U	19,967	NA
AMD Ryzen 5 PRO 6650H	19,907	NA
Intel Core i7-1360P	19,629	$480.00*
AMD Ryzen 5 7535HS	19,250	NA
AMD Ryzen 5 6600H	19,128	NA
AMD Ryzen 7 7730U	18,910	NA
AMD Ryzen 5 6600HS Creator Edition	18,695	NA
AMD Ryzen 7 5800U	18,687	NA
Intel Core i5-13420H	18,492	$342.00*
AMD Ryzen 7 5825U	18,482	NA
Intel Core i5-1335U	18,295	$340.00*
Intel Xeon W-11855M @ 3.20GHz	18,295	$450.00*
Intel Core i5-12450H	18,015	$311.00*
Intel Core i7-1270P	17,629	NA
AMD Ryzen 7 4980U Microsoft Surface Edition	17,469	NA
Intel Core i5-1240P	17,454	NA
Intel Core i7-1260P	17,331	NA
AMD Ryzen 7 PRO 5850U	17,301	NA
AMD Ryzen 5 6600U	17,223	NA
Apple M1 Pro 8 Core 3200 MHz	17,169	NA
AMD Ryzen 5 7535U	17,163	NA
AMD Ryzen 5 5600H	17,125	NA
AMD Ryzen 5 PRO 6650U	16,818	NA
AMD Ryzen 7 PRO 5875U	16,748	NA
Intel Core i5-12500TE	16,456	$205.00*
Intel Core i7-10700E @ 2.90GHz	16,418	$330.00*
AMD Ryzen 5 PRO 7530U	16,365	NA
Intel Core i7-10700TE @ 2.00GHz	16,332	$330.00*
AMD Ryzen 5 7530U	16,193	NA
Intel Core i5-11500H @ 2.90GHz	15,959	$250.00*
AMD Ryzen 7 4850U Mobile	15,920	NA
Intel Core i7-11600H @ 2.90GHz	15,919	$395.00*
Intel Core i5-11260H @ 2.60GHz	15,875	$250.00*
Intel Core i5-11400H @ 2.70GHz	15,871	$250.00*
AMD Ryzen 7 5700U	15,827	NA
Intel Core i5-1345U	15,651	$309.00*
Intel Core i7-12700TE	15,616	$344.00*
Intel Core i7-1365U	15,596	$426.00*
Intel Core i7-1355U	15,536	$469.00*
AMD Ryzen 5 5600U	15,462	NA
Apple M2 8 Core 3500 MHz	15,345	NA
AMD Ryzen 5 5625U	15,173	NA
AMD Ryzen 5 5560U	15,159	NA
AMD Ryzen 5 PRO 5650U	15,042	NA
AMD Ryzen 5 PRO 4400GE	14,795	NA
Intel Core i7-10870H @ 2.20GHz	14,687	$417.00*
AMD Ryzen 5 PRO 5675U	14,474	NA
Intel Core i3-1220P	14,461	$281.00*
Intel Core i5-1240U	14,323	NA
Intel Core i7-1265U	14,147	$426.00*
Apple M1 8 Core 3200 MHz	14,074	NA

Intel Core i7-1255U	13,926	$426.00*
Intel Core i5-1235U	13,662	$309.00*
Intel Core i5-1245U	13,638	$309.00*
AMD Ryzen 5 5500U	13,179	NA
Intel Core i3-1315U	13,033	$309.00*
Intel Core i3-12100TE	12,961	$125.00*
Intel Core i7-1260U	12,911	NA
AMD Ryzen 3 PRO 7330U	12,846	NA
Intel Core i7-1250U	12,746	$426.00*
Intel Core i7-11375H @ 3.30GHz	12,159	$482.00*
Intel Core i7-11370H @ 3.30GHz	11,786	$426.00*
Snapdragon 8cx Gen 3 @ 3.0 GHz	11,784	NA
AMD Ryzen 3 5425U	11,571	NA
AMD Ryzen 3 5400U	11,540	NA
Intel Core i5-10500H @ 2.50GHz	11,354	$250.00*
AMD Ryzen 3 PRO 5475U	11,272	NA
Intel Core i3-1215U	11,192	NA
AMD Ryzen 3 PRO 5450U	11,110	NA
Intel Core i3-1210U	11,087	NA
Intel Core i7-1195G7 @ 2.90GHz	11,078	$426.00*
Intel Core i5-11300H @ 3.10GHz	11,003	$309.00*
Intel Core i5-11320H @ 3.20GHz	10,941	$309.00*
AMD Ryzen 3 PRO 4200GE	10,930	NA
Intel Core i5-1230U	10,918	$309.00*
AMD Ryzen 3 7330U	10,774	NA
Intel Core i7-11390H @ 3.40GHz	10,513	$426.00*
Intel Core i7-1185G7E @ 2.80GHz	10,444	$431.00*
Intel Core i5-1334U	10,366	$340.00*
Intel Core i5-1155G7 @ 2.50GHz	10,325	$309.00*
Intel Core i3-N305	10,265	$309.00*
Intel Core i5-1145G7 @ 2.60GHz	9,957	NA
Intel Core i5-1135G7 @ 2.40GHz	9,927	$309.00*
Intel Core i3-1125G4 @ 2.00GHz	9,841	NA
AMD Ryzen 5 7520U	9,742	NA
AMD Ryzen 3 5300U	9,734	NA
Intel Core i3-1305U	9,724	$309.00*
AMD Ryzen 3 7320U	9,257	NA
Intel Core i7-1265UE	9,195	$472.00*
Intel Core i7-1160G7 @ 1.20GHz	9,166	$426.00*
Intel U300	9,114	$193.00*
Intel Pentium Gold 8505	9,054	NA
Intel Core i5-1130G7 @ 1.10GHz	8,600	$309.00*
Intel Core i7-1180G7 @ 1.30GHz	8,518	$426.00*
Intel Core i5-10500TE @ 2.30GHz	8,449	$195.00*
AMD Ryzen 3 7320C	8,386	NA
AMD Athlon Gold PRO 4150GE	8,259	NA
Intel Core i5-10200H @ 2.40GHz	8,239	$250.00*
Intel Core i3-N300	8,064	$309.00*
Intel Core i5-8269U @ 2.60GHz	8,055	$320.00*
AMD Ryzen 7 3700C	7,145	NA
Snapdragon 8cx Gen 2 @ 3.0 GHz	6,770	NA
AMD Ryzen 5 3450U	6,756	NA
Snapdragon 8cx Gen 2 @ 3.15 GHz	6,511	NA
Intel Core i3-1115G4 @ 3.00GHz	6,156	$281.00*
AMD Ryzen 3 3350U	5,846	NA

Intel Core i5-7440EQ @ 2.90GHz	**5,711**	$250.00*
AMD Ryzen 5 3500C	**5,564**	NA
Intel N95	**5,459**	NA
Intel Pentium Silver N6005 @ 2.00GHz	**5,395**	NA
Intel Pentium Gold 7505 @ 2.00GHz	**5,265**	NA
Snapdragon 8c @ 2.46 GHz	**5,230**	NA
AMD Athlon Gold 7220U	**4,958**	NA
Snapdragon 8cx @ 2.84 GHz	**4,660**	NA
AMD Athlon Silver 3050GE	**4,545**	NA
Intel Core i3-9100TE @ 2.20GHz	**4,501**	$122.00*
Intel Pentium 6805 @ 1.10GHz	**4,424**	$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	**4,099**	$281.00*
AMD Athlon PRO 300U	**4,080**	NA
Snapdragon 7c Gen 2 @ 2.55 GHz	**3,781**	NA
Snapdragon 7c @ 1.96 GHz	**3,712**	NA
Intel Pentium Silver N5020 @ 1.10GHz	**3,404**	NA
Intel Celeron N5100 @ 1.10GHz	**3,359**	NA
Snapdragon 850 @ 2.96 GHz	**3,326**	NA
AMD Athlon Gold 3150C	**3,292**	NA
Snapdragon 7c @ 2.40 GHz	**3,269**	NA
AMD Ryzen 3 3250C	**3,208**	NA
Intel Core i3-6167U @ 2.70GHz	**3,206**	NA
AMD Athlon Silver 3050e	**3,038**	NA
AMD Ryzen Embedded R1305G	**2,980**	NA
AMD Athlon Silver 7120U	**2,558**	NA
Intel Celeron 7305	**2,367**	$107.00*
Snapdragon 835	**2,211**	NA
Intel Celeron 6305 @ 1.80GHz	**2,083**	NA
Intel Celeron N4020C @ 1.10GHz	**1,587**	NA
AMD Athlon PRO 3045B	**1,487**	NA
Intel Pentium Dual T2390 @ 1.86GHz	**745**	NA
AMD E2-7015	**572**	NA

Software

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Hardware

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USB Power Delivery Tester

Serial and Parallel Loopback Plugs

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