

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 the [PassMark CPU Test](#) 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 26th of June 2023

CPU	CPU Mark	Price (USD)
AMD Ryzen 9 7945HX	58,162	NA
Intel Core i9-13980HX	48,794	\$668.00*
AMD Ryzen 9 7845HX	46,565	NA
Intel Core i9-13950HX	45,529	\$590.00*
Intel Core i9-13900HX	45,501	\$668.00*
Intel Core i7-13850HX	38,546	\$428.00*
Intel Core i9-12900HX	35,083	\$606.00*
Intel Core i7-13700HX	34,824	\$485.00*
AMD Ryzen 7 7745HX	34,281	NA
Intel Core i7-12800HX	33,451	\$457.00*
Intel Core i9-12950HX	32,973	\$590.00*

Intel Core i7-13650HX	32,823	\$485.00*
AMD Ryzen 9 7940H	32,499	NA
AMD Ryzen 9 7940HS	31,695	NA
AMD Ryzen 7 7840HS	31,411	NA
Intel Core i9-13900HK	31,068	\$697.00*
Intel Core i9-13900H	30,853	\$617.00*
Intel Core i7-12850HX	30,468	\$428.00*
Intel Core i7-13705H	30,020	\$502.00*
Intel Core i5-13600HX	29,716	\$284.00*
Intel Core i7-13700H	29,487	\$502.00*
Intel Core i5-13500HX	29,082	\$326.00*
Intel Core i9-12900H	28,879	\$617.00*
Intel Core i9-12900HK	28,487	\$635.00*
Intel Core i7-13620H	27,265	\$502.00*
Intel Core i7-13800H	27,083	\$457.00*
Intel Core i5-13450HX	26,936	\$326.00*
Intel Core i7-12700H	26,596	\$457.00*
Apple M2 Pro 12 Core 3480 MHz	26,438	NA
Apple M2 Max 12 Core 3680 MHz	26,227	NA
Intel Core i5-13600H	25,776	\$311.00*
AMD Ryzen 7 PRO 7840HS	25,046	NA
Intel Core i7-12800H	25,009	\$457.00*
AMD Ryzen 9 6900HX	24,954	NA
Intel Core i5-12600HX	24,470	\$284.00*
AMD Ryzen 7 7735HS	24,418	NA
AMD Ryzen 7 7735H	24,403	NA
Intel Core i7-12650H	24,035	\$457.00*
AMD Ryzen 9 6900HS	24,019	NA
Intel Core i5-13500H	23,930	NA
AMD Ryzen 7 7736U	23,860	NA
AMD Ryzen 7 6800H	23,823	NA
AMD Ryzen 9 5980HX	23,705	NA
AMD Ryzen 9 PRO 6950HS	23,295	NA
AMD Ryzen 7 PRO 6850H	23,204	NA
Intel Core i9-11980HK @ 2.60GHz	23,121	\$583.00*
AMD Ryzen 7 6800HS	23,019	NA
Intel Core i5-12600H	22,998	\$311.00*
Intel Xeon W-11955M @ 2.60GHz	22,967	\$623.00*
AMD Ryzen 7 6800HS Creator Edition	22,827	NA
AMD Ryzen 9 5900HX	22,823	NA
AMD Ryzen 9 PRO 6950H	22,638	NA
Intel Core i7-1370P	22,597	NA
AMD Ryzen 9 6900HS Creator Edition	22,574	NA
Intel Core i5-1350P	22,544	\$320.00*
Apple M1 Max 10 Core 3200 MHz	22,101	NA
AMD Ryzen 7 PRO 6850HS	22,044	NA
AMD Ryzen 9 5900HS	21,979	NA
Apple M1 Pro 10 Core 3200 MHz	21,886	NA

Apple M2 Pro 10 Core 3480 MHz	21,711	NA
Intel Core i9-11950H @ 2.60GHz	21,592	\$556.00*
Intel Core i5-12500H	21,570	\$311.00*
AMD Ryzen 7 5800H	21,260	NA
AMD Ryzen 7 5800HS Creator Edition	21,166	NA
Intel Core i9-11900H @ 2.50GHz	21,074	\$546.00*
AMD Ryzen 9 5980HS	21,058	NA
AMD Ryzen 7 7735U	21,024	NA
AMD Ryzen 7 PRO 6860Z	20,994	NA
Intel Core i5-1340P	20,974	\$353.00*
AMD Ryzen 9 5900H	20,960	NA
AMD Ryzen 7 PRO 6850U	20,952	NA
Intel Core i7-11800H @ 2.30GHz	20,896	\$395.00*
Intel Core i5-1250P	20,838	NA
Intel Core i7-11850H @ 2.50GHz	20,833	\$395.00*
AMD Ryzen 7 6800U	20,653	NA
AMD Ryzen 7 5800HS	20,508	NA
Intel Core i7-1280P	20,381	\$482.00*
AMD Ryzen 5 PRO 6650H	20,103	NA
AMD Ryzen 5 7540U	20,083	NA
AMD Ryzen 5 7535HS	19,924	NA
Intel Core i7-1360P	19,702	\$480.00*
Intel Core i5-13420H	19,613	\$342.00*
AMD Ryzen 7 7730U	19,401	NA
AMD Ryzen 5 6600H	19,116	NA
Intel Core i5-1335U	19,079	\$340.00*
AMD Ryzen 5 6600HS Creator Edition	18,942	NA
AMD Ryzen 7 5800U	18,691	NA
AMD Ryzen 7 5825U	18,551	NA
Intel Xeon W-11855M @ 3.20GHz	18,324	\$450.00*
AMD Ryzen 7 Extreme Edition	18,185	NA
Intel Core i5-12450H	17,812	\$311.00*
Intel Core i7-1270P	17,706	NA
Intel Core i5-1240P	17,530	NA
AMD Ryzen 5 7535U	17,495	NA
AMD Ryzen 7 4980U Microsoft Surface Editi.	17,469	NA
Intel Core i7-1260P	17,393	NA
AMD Ryzen 7 PRO 5850U	17,375	NA
AMD Ryzen 5 PRO 7530U	17,289	NA
AMD Ryzen 5 6600U	17,256	NA
Apple M1 Pro 8 Core 3200 MHz	17,174	NA
AMD Ryzen 5 5600H	17,157	NA
AMD Ryzen 5 PRO 6650U	16,680	NA
AMD Ryzen 7 PRO 5875U	16,520	NA
AMD Ryzen 5 7530U	16,473	NA
Intel Core i5-12500TE	16,456	\$205.00*
Intel Core i7-10700E @ 2.90GHz	16,418	\$330.00*
Intel Core i7-10700TE @ 2.00GHz	16,332	\$330.00*

Intel Core i5-11500H @ 2.90GHz	16,011	\$250.00*
Intel Core i5-1345U	15,962	\$309.00*
Intel Core i5-11400H @ 2.70GHz	15,928	\$250.00*
AMD Ryzen 7 4850U Mobile	15,920	NA
Intel Core i7-11600H @ 2.90GHz	15,919	\$395.00*
AMD Ryzen 7 5700U	15,850	NA
Intel Core i5-11260H @ 2.60GHz	15,747	\$250.00*
Intel Core i7-1355U	15,711	\$469.00*
Intel Core i7-12700TE	15,616	\$344.00*
AMD Ryzen 5 5600U	15,476	NA
Apple M2 8 Core 3500 MHz	15,371	NA
Intel Core i7-1365U	15,330	\$426.00*
Intel Core i9-10885H @ 2.40GHz	15,313	\$556.00*
AMD Ryzen 5 5560U	15,230	NA
AMD Ryzen 5 5625U	15,125	NA
AMD Ryzen 5 PRO 5650U	15,094	NA
AMD Ryzen 5 PRO 4400GE	14,795	NA
AMD Ryzen 5 PRO 5675U	14,782	NA
Intel Core i7-10870H @ 2.20GHz	14,749	\$417.00*
Intel Core i9-10880H @ 2.30GHz	14,736	NA
Intel Core i3-1220P	14,581	\$281.00*
Intel Core i5-1240U	14,323	NA
AMD Ryzen 5 4600HS	14,298	NA
Apple M1 8 Core 3200 MHz	14,118	NA
Intel Core i7-1265U	14,110	\$426.00*
Intel Core i7-1255U	13,941	\$426.00*
Intel Core i3-1315U	13,653	\$309.00*
Intel Core i5-1235U	13,635	\$309.00*
Intel Core i5-1245U	13,522	\$309.00*
AMD Ryzen 5 5500U	13,194	NA
Intel Core i7-1260U	13,019	NA
Intel Core i3-12100TE	12,961	\$125.00*
AMD Ryzen 3 PRO 7330U	12,913	NA
Intel Xeon W-10855M @ 2.80GHz	12,905	\$450.00*
Intel Core i7-1250U	12,795	\$426.00*
Intel Core i7-11375H @ 3.30GHz	12,201	\$482.00*
Intel Core i7-11370H @ 3.30GHz	11,816	\$426.00*
Snapdragon 8cx Gen 3 @ 3.0 GHz	11,765	NA
AMD Ryzen 3 5425U	11,586	NA
AMD Ryzen 3 5400U	11,540	NA
Intel Core i5-10500H @ 2.50GHz	11,444	\$250.00*
AMD Ryzen 3 PRO 5475U	11,272	NA
Intel Core i3-1215U	11,215	NA
Intel Core i3-1210U	11,087	NA
Intel Core i7-1195G7 @ 2.90GHz	11,077	\$426.00*
Intel Core i5-11320H @ 3.20GHz	11,070	\$309.00*
Intel Core i5-11300H @ 3.10GHz	10,998	\$309.00*
AMD Ryzen 3 PRO 5450U	10,984	NA

AMD Ryzen 3 PRO 4200GE	10,930	NA
AMD Ryzen 3 7330U	10,735	NA
Intel Core i7-1185G7 @ 3.00GHz	10,615	\$426.00*
Intel Core i7-1265UE	10,573	\$472.00*
Intel Core i5-1230U	10,505	\$309.00*
Intel Core i7-11390H @ 3.40GHz	10,470	\$426.00*
Intel Core i7-1185G7E @ 2.80GHz	10,444	\$431.00*
Intel Core i7-1165G7 @ 2.80GHz	10,397	\$426.00*
Intel Core i3-N305	10,377	\$309.00*
Intel Core i5-1334U	10,366	\$340.00*
Intel Core i5-1155G7 @ 2.50GHz	10,317	\$309.00*
AMD Ryzen 3 PRO 4450U	10,092	NA
Intel Core i5-1145G7 @ 2.60GHz	10,003	NA
Intel Core i5-1135G7 @ 2.40GHz	9,952	\$309.00*
Intel Core i3-1125G4 @ 2.00GHz	9,860	NA
AMD Ryzen 5 7520U	9,802	NA
AMD Ryzen 3 5300U	9,777	NA
Intel Core i3-1305U	9,405	\$309.00*
AMD Ryzen 3 7320U	9,258	NA
Intel Core i7-1160G7 @ 1.20GHz	9,183	\$426.00*
Intel Pentium Gold 8505	8,949	NA
Intel Core i5-1130G7 @ 1.10GHz	8,824	\$309.00*
Intel Core i5-10400H @ 2.60GHz	8,622	\$250.00*
Intel Core i7-1180G7 @ 1.30GHz	8,520	\$426.00*
Intel Core i5-10500TE @ 2.30GHz	8,449	\$195.00*
Intel Core i5-10200H @ 2.40GHz	8,292	\$250.00*
AMD Athlon Gold PRO 4150GE	8,070	NA
Intel Core i5-8269U @ 2.60GHz	8,055	\$320.00*
Intel Core i3-10100T @ 3.00GHz	7,343	\$122.00*
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	6,175	\$281.00*
AMD Ryzen 3 3350U	5,870	NA
Intel Core i5-7440EQ @ 2.90GHz	5,711	\$250.00*
AMD Ryzen 5 3500C	5,564	NA
Intel N95	5,483	NA
Intel Pentium Silver N6005 @ 2.00GHz	5,399	NA
Intel Pentium Gold 7505 @ 2.00GHz	5,259	NA
Snapdragon 8c @ 2.46 GHz	5,230	NA
Intel Core i7-10510Y @ 1.20GHz	5,100	\$403.00*
AMD Athlon Gold 7220U	4,991	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
AMD Athlon Gold 3150U	4,033	NA
Snapdragon 7c Gen 2 @ 2.55 GHz	3,767	NA
Snapdragon 7c @ 1.96 GHz	3,712	NA
Intel Core i5-L16G7 @ 1.40GHz	3,445	\$281.00*
Intel Pentium Silver N5020 @ 1.10GHz	3,404	NA
Intel Celeron N5100 @ 1.10GHz	3,362	NA
Snapdragon 850 @ 2.96 GHz	3,326	NA
AMD Athlon Gold 3150C	3,292	NA
AMD Ryzen 3 3250C	3,208	NA
Intel Core i3-6167U @ 2.70GHz	3,156	NA
Snapdragon 7c @ 2.40 GHz	3,074	NA
AMD Athlon Silver 3050e	3,041	NA
AMD Ryzen Embedded R1305G	2,980	NA
AMD 3015e	2,689	NA
AMD Athlon Silver 7120U	2,558	NA
Intel Celeron 7305	2,189	\$107.00*
Intel Celeron 6305 @ 1.80GHz	2,070	NA
Snapdragon 835	1,905	NA
Intel Pentium 4425Y @ 1.70GHz	1,690	\$161.00*
Intel Celeron N4020C @ 1.10GHz	1,535	NA
AMD Athlon PRO 3045B	1,487	NA
Intel Pentium Dual T2390 @ 1.86GHz	745	NA
AMD E2-7015	572	NA

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