

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 18th of July 2023

CPU	CPU Mark	Price (USD)
AMD Ryzen 9 7945HX	57,830	NA
Intel Core i9-13980HX	48,633	\$668.00*
AMD Ryzen 9 7845HX	46,658	NA
Intel Core i9-13950HX	45,622	\$590.00*
Intel Core i9-13900HX	45,459	\$668.00*
Intel Core i7-13850HX	39,035	\$428.00*
Intel Core i9-12900HX	34,963	\$606.00*
Intel Core i7-13700HX	34,648	\$485.00*
Intel Core i9-13905H	33,881	\$697.00*
AMD Ryzen 7 7745HX	33,696	NA
Intel Core i7-12800HX	33,367	\$457.00*
Intel Core i9-12950HX	33,002	\$590.00*
Intel Core i7-13650HX	32,507	\$485.00*
AMD Ryzen 9 7940HS	31,149	NA
AMD Ryzen 9 7940H	31,094	NA
Intel Core i9-13900HK	31,068	\$697.00*
AMD Ryzen 7 7840HS	31,005	NA
Intel Core i9-13900H		 *
Intel Core i7-12850HX		 *
Intel Core i5-13600HX		 *

AMD Ryzen 9 PRO 7940HS	29,623	NA
Intel Core i7-13700H	29,298	\$502.00*
 CPU Benchmarks ▼		
Intel Core i9-12900H	28,876	\$617.00*
Intel Core i9-12900HK	28,228	\$635.00*
Intel Core i7-13800H	27,703	\$457.00*
AMD Ryzen 7 7840H	27,351	NA
Intel Core i7-13620H	27,129	\$502.00*
Intel Core i7-12700H	26,586	\$457.00*
Apple M2 Pro 12 Core 3480 MHz	26,452	NA
Intel Core i5-13450HX	26,348	\$326.00*
Apple M2 Max 12 Core 3680 MHz	26,245	NA
Intel Core i5-13600H	25,776	\$311.00*
AMD Ryzen 9 6900HX	24,943	NA
Intel Core i7-12800H	24,932	\$457.00*
AMD Ryzen 7 7735H	24,347	NA
AMD Ryzen 7 7735HS	24,247	NA
AMD Ryzen 7 PRO 7840HS	24,117	NA
AMD Ryzen 9 6900HS	24,016	NA
Intel Core i7-12650H	23,976	\$457.00*
Intel Core i5-12600HX	23,908	\$284.00*
AMD Ryzen 7 7736U	23,860	NA
AMD Ryzen 7 6800H	23,815	NA
Intel Core i7-13705H	23,753	\$502.00*
AMD Ryzen 9 5980HX	23,701	NA
Intel Core i5-13500H	23,539	NA
AMD Ryzen 9 PRO 6950HS	23,295	NA
AMD Ryzen 7 6800HS	23,085	NA
Intel Core i9-11980HK @ 2.60GHz	23,056	\$583.00*
AMD Ryzen 7 PRO 6850H	23,055	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	22,876	NA
AMD Ryzen 9 5900HX	22,817	NA
Intel Core i7-1370P	22,688	NA
AMD Ryzen 9 PRO 6950H	22,560	NA
Intel Core i5-1350P	22,544	\$320.00*
AMD Ryzen 9 6900HS Creator Edition	22,407	NA
Apple M1 Max 10 Core 3200 MHz	22,092	NA
AMD Ryzen 7 PRO 6850HS	22,044	NA
AMD Ryzen 9 5900HS	21,961	NA
Apple M1 Pro 10 Core 3200 MHz	21,882	NA
Apple M2 Pro 10 Core 3480 MHz	21,708	NA
Intel Core i5-12500H	21,606	\$311.00*
Intel Core i9-11950H @ 2.60GHz	21,585	\$556.00*
Intel Core i5-1340P	21,325	\$353.00*
AMD Ryzen 7 5800H		
AMD Ryzen 9 5980HS		

AMD Ryzen 7 5800HS Creator Edition	21,166	NA
Intel Core i9-11900H @ 2.50GHz	21,070	\$546.00*
 CPU Benchmarks ▼		
AMD Ryzen 7 PRO 6860Z	20,994	NA
AMD Ryzen 9 5900H	20,960	NA
AMD Ryzen 7 PRO 6850U	20,914	NA
Intel Core i7-11800H @ 2.30GHz	20,866	\$395.00*
Intel Core i7-11850H @ 2.50GHz	20,849	\$395.00*
Intel Core i5-1250P	20,838	NA
AMD Ryzen 7 6800U	20,615	NA
AMD Ryzen 7 5800HS	20,487	NA
Intel Core i7-1280P	20,433	\$482.00*
AMD Ryzen 5 7540U	20,083	NA
AMD Ryzen 5 7535HS	19,926	NA
AMD Ryzen 5 PRO 6650H	19,907	NA
Intel Core i7-1360P	19,722	\$480.00*
AMD Ryzen 5 6600H	19,134	NA
Intel Core i5-1335U	19,022	\$340.00*
AMD Ryzen 5 6600HS Creator Edition	18,942	NA
AMD Ryzen 7 7730U	18,871	NA
AMD Ryzen 7 5800U	18,691	NA
AMD Ryzen 7 5825U	18,542	NA
Intel Xeon W-11855M @ 3.20GHz	18,295	\$450.00*
AMD Ryzen 7 Extreme Edition	18,185	NA
Intel Core i5-13420H	18,017	\$342.00*
Intel Core i5-12450H	17,975	\$311.00*
Intel Core i7-1270P	17,616	NA
Intel Core i5-1240P	17,520	NA
AMD Ryzen 7 4980U Microsoft Surface Edition	17,469	NA
Intel Core i7-1260P	17,389	NA
AMD Ryzen 7 PRO 5850U	17,330	NA
AMD Ryzen 5 6600U	17,223	NA
Apple M1 Pro 8 Core 3200 MHz	17,173	NA
AMD Ryzen 5 5600H	17,149	NA
AMD Ryzen 5 7535U	17,123	NA
AMD Ryzen 5 PRO 7530U	17,029	NA
AMD Ryzen 5 PRO 6650U	16,765	NA
AMD Ryzen 7 PRO 5875U	16,520	NA
AMD Ryzen 5 7530U	16,500	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 i5-1345U	16,123	\$309.00*
Intel Core i7-1355U	15,994	\$469.00*
Intel Core i5-11500H @ 2.90GHz	15,959	\$250.00*
AMD Ryzen 7 4850U Mobile	15,920	NA
Intel Core i7-11600H @ :		I*
Intel Core i5-11400H @ :		I*

AMD Ryzen 7 5700U	15,851	NA
Intel Core i5-11260H @ 2.60GHz	15,805	\$250.00*
 CPU Benchmarks ▼		
Intel Core i7-1365U	15,583	\$426.00*
AMD Ryzen 5 5600U	15,476	NA
Apple M2 8 Core 3500 MHz	15,335	NA
AMD Ryzen 5 5560U	15,187	NA
AMD Ryzen 5 5625U	15,130	NA
AMD Ryzen 5 PRO 5650U	15,059	NA
AMD Ryzen 5 PRO 5675U	14,798	NA
AMD Ryzen 5 PRO 4400GE	14,795	NA
Intel Core i7-10870H @ 2.20GHz	14,724	\$417.00*
Intel Core i3-1220P	14,515	\$281.00*
Intel Core i5-1240U	14,323	NA
Intel Core i7-1265U	14,153	\$426.00*
Apple M1 8 Core 3200 MHz	14,100	NA
Intel Core i7-1255U	13,935	\$426.00*
Intel Core i5-1235U	13,645	\$309.00*
Intel Core i3-1315U	13,575	\$309.00*
Intel Core i5-1245U	13,537	\$309.00*
AMD Ryzen 5 5500U	13,192	NA
Intel Core i7-1260U	13,019	NA
Intel Core i3-12100TE	12,961	\$125.00*
Intel Xeon W-10855M @ 2.80GHz	12,905	\$450.00*
Intel Core i7-1250U	12,882	\$426.00*
AMD Ryzen 3 PRO 7330U	12,880	NA
Intel Core i7-11375H @ 3.30GHz	12,159	\$482.00*
Intel Core i7-11370H @ 3.30GHz	11,818	\$426.00*
Snapdragon 8cx Gen 3 @ 3.0 GHz	11,797	NA
AMD Ryzen 3 5425U	11,571	NA
AMD Ryzen 3 5400U	11,539	NA
Intel Core i5-10500H @ 2.50GHz	11,425	\$250.00*
AMD Ryzen 3 PRO 5475U	11,272	NA
Intel Core i3-1215U	11,185	NA
AMD Ryzen 3 PRO 5450U	11,098	NA
Intel Core i7-1195G7 @ 2.90GHz	11,093	\$426.00*
Intel Core i3-1210U	11,087	NA
Intel Core i5-11320H @ 3.20GHz	11,062	\$309.00*
Intel Core i5-11300H @ 3.10GHz	11,006	\$309.00*
AMD Ryzen 3 PRO 4200GE	10,930	NA
AMD Ryzen 3 7330U	10,735	NA
Intel Core i7-1185G7 @ 3.00GHz	10,594	\$426.00*
Intel Core i7-1265UE	10,573	\$472.00*
Intel Core i5-1230U	10,505	\$309.00*
Intel Core i7-11390H @ 3.40GHz	10,485	\$426.00*
Intel Core i7-1185G7E @ 2.80GHz	10,444	\$431.00*
Intel Core i7-1165G7 @		I*
Intel Core i5-1334U		I*

Intel Core i5-1155G7 @ 2.50GHz	10,323	\$309.00*
Intel Core i3-N305	10,233	\$309.00*
 CPU Benchmarks ▼		
Intel Core i5-1145G7 @ 2.60GHz	9,996	NA
Intel Core i5-1135G7 @ 2.40GHz	9,942	\$309.00*
Intel Core i3-1125G4 @ 2.00GHz	9,859	NA
AMD Ryzen 5 7520U	9,773	NA
AMD Ryzen 3 5300U	9,747	NA
Intel Core i3-1305U	9,405	\$309.00*
AMD Ryzen 3 7320U	9,253	NA
Intel Core i7-1160G7 @ 1.20GHz	9,169	\$426.00*
Intel U300	9,114	\$193.00*
Intel Pentium Gold 8505	8,994	NA
Intel Core i5-1130G7 @ 1.10GHz	8,812	\$309.00*
Intel Core i7-1180G7 @ 1.30GHz	8,520	\$426.00*
Intel Core i5-10500TE @ 2.30GHz	8,449	\$195.00*
AMD Athlon Gold PRO 4150GE	8,259	NA
Intel Core i5-10200H @ 2.40GHz	8,241	\$250.00*
Intel Core i5-8269U @ 2.60GHz	8,055	\$320.00*
Intel Core i3-10100T @ 3.00GHz	7,340	\$122.00*
AMD Ryzen 7 3700C	7,145	NA
Snapdragon 8cx Gen 2 @ 3.0 GHz	6,770	NA
AMD Ryzen 5 3450U	6,753	NA
Snapdragon 8cx Gen 2 @ 3.15 GHz	6,511	NA
Intel Core i3-1115G4 @ 3.00GHz	6,157	\$281.00*
AMD Ryzen 3 3350U	5,864	NA
Intel Core i5-7440EQ @ 2.90GHz	5,711	\$250.00*
AMD Ryzen 5 3500C	5,564	NA
Intel N95	5,448	NA
Intel Pentium Silver N6005 @ 2.00GHz	5,395	NA
Intel Pentium Gold 7505 @ 2.00GHz	5,262	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
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		
Snapdragon 850 @ 2.96		

AMD Athlon Gold 3150C	3,292	NA
AMD Ryzen 3 3250G	3,208	NA
 CPU Benchmarks ▼		
Snapdragon 7c @ 2.40 GHz	3,074	NA
AMD Athlon Silver 3050e	3,041	NA
AMD Ryzen Embedded R1305G	2,980	NA
AMD Athlon Silver 7120U	2,558	NA
Intel Celeron 7305	2,189	\$107.00*
Intel Celeron 6305 @ 1.80GHz	2,075	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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