

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 5th of November 2023

CPU	CPU Mark	Price (USD)
AMD Ryzen 9 7945HX	55,983	NA
Intel Core i9-13980HX	48,112	\$668.00*
AMD Ryzen 9 7845HX	46,786	NA
Intel Core i9-13950HX	45,058	\$590.00*
Intel Core i9-13900HX	45,003	\$668.00*
Intel Core i7-13850HX	38,556	\$428.00*
Intel Core i9-12900HX	34,917	\$606.00*
Intel Core i7-13700HX	34,233	\$485.00*
Intel Core i9-12950HX	33,053	\$590.00*

Intel Core i9-13900HK	32,200	\$697.00*
Intel Core i7-13650HX	32,076	\$485.00*
🏠 CPU Benchmarks ▼		
AMD Ryzen 9 7940H	31,099	NA
AMD Ryzen 9 7940HS	30,714	NA
Intel Core i7-12850HX	30,363	\$428.00*
Intel Core i9-13900H	29,824	\$617.00*
Intel Core i5-13600HX	29,733	\$284.00*
AMD Ryzen 7 7840HS	29,029	NA
AMD Ryzen 7 7840H	28,763	NA
Intel Core i9-12900H	28,597	\$617.00*
Intel Core i7-13700H	28,240	\$502.00*
Intel Core i9-12900HK	28,143	\$635.00*
AMD Ryzen 9 PRO 7940HS	27,950	NA
Intel Core i7-13700TE	27,933	\$390.00*
Intel Core i7-13800H	27,447	\$457.00*
Intel Core i5-13500HX	27,182	\$326.00*
Intel Core i7-13620H	26,531	\$502.00*
Intel Core i7-12700H	26,469	\$457.00*
Apple M2 Pro 12 Core 3480 MHz	26,284	NA
Apple M2 Max 12 Core 3680 MHz	26,265	NA
Intel Core i5-13450HX	25,822	\$326.00*
Intel Core i5-13600H	25,569	\$311.00*
AMD Ryzen 7 PRO 7840HS	25,487	NA
AMD Ryzen 7 PRO 7840U	25,393	NA
AMD Ryzen 7 7840U	25,080	NA
AMD Ryzen 9 6900HX	24,917	NA
Intel Core i7-12800H	24,907	\$457.00*
AMD Ryzen 7 7840S	24,648	NA
AMD Ryzen 7 7735H	24,250	NA
AMD Ryzen 7 7735HS	24,249	NA
Intel Core i5-12600HX	24,039	\$284.00*
AMD Ryzen 9 6900HS	23,899	NA
Intel Core i7-13705H	23,753	\$502.00*
AMD Ryzen 7 6800H	23,704	NA
AMD Ryzen 9 5980HX	23,669	NA
Intel Core i7-12650H	23,500	\$457.00*
AMD Ryzen 5 7640HS	23,297	NA
Intel Core i5-13500H	23,054	NA
AMD Ryzen 9 PRO 6950HS	23,036	NA
Intel Core i5-12600H	23,012	\$311.00*
Intel Core i9-11980HK @ 2.60GHz	23,001	\$583.00*
AMD Ryzen 5 PRO 7640HS	22,977	NA
AMD Ryzen 7 6800HS	22,959	NA
AMD Ryzen 7 PRO 6850H	22,942	NA
Intel Xeon W-11955M @ 2.60GHz	22,920	\$623.00*
AMD Ryzen 9 5900HX		

AMD Ryzen 9 PRO 6950H	22,454	NA
AMD Ryzen 9 6900HS Creator Edition	22,367	NA
🏠 CPU Benchmarks ▼		
Apple M1 Max 10 Core 3200 MHz	22,048	NA
AMD Ryzen 7 PRO 6850HS	21,998	NA
AMD Ryzen 9 5900HS	21,852	NA
Apple M1 Pro 10 Core 3200 MHz	21,825	NA
Intel Core i5-12500H	21,638	\$311.00*
Apple M2 Pro 10 Core 3480 MHz	21,544	NA
Intel Core i9-11950H @ 2.60GHz	21,437	\$556.00*
Intel Core i5-1350P	21,417	\$320.00*
Intel Core Ultra 7 155H	21,359	NA
AMD Ryzen 7 7735U	21,262	NA
Intel Core i7-1370P	21,257	NA
AMD Ryzen 9 5980HS	21,232	NA
AMD Ryzen 7 5800HS Creator Edition	21,166	NA
AMD Ryzen 7 5800H	21,161	NA
AMD Ryzen 9 5900H	20,960	NA
Intel Core i9-11900H @ 2.50GHz	20,936	\$546.00*
AMD Ryzen 7 PRO 6860Z	20,895	NA
AMD Ryzen 7 PRO 6850U	20,878	NA
Intel Core i7-11800H @ 2.30GHz	20,777	\$395.00*
Intel Core i7-11850H @ 2.50GHz	20,757	\$395.00*
Intel Core i5-1250P	20,609	NA
AMD Ryzen 7 6800U	20,601	NA
Intel Core i7-1280P	20,478	\$482.00*
Intel Core i5-1340P	20,453	\$353.00*
AMD Ryzen 7 5800HS	20,400	NA
AMD Ryzen 7 PRO 7730U	20,269	NA
AMD Ryzen 5 PRO 6650H	19,907	NA
Intel Core i7-1360P	19,304	\$480.00*
AMD Ryzen 5 7540U	19,093	NA
AMD Ryzen 5 6600H	18,988	NA
Intel Core i5-13420H	18,905	\$342.00*
AMD Ryzen 7 7730U	18,803	NA
AMD Ryzen 5 6600HS Creator Edition	18,661	NA
AMD Ryzen 7 5800U	18,621	NA
AMD Ryzen 7 5825U	18,446	NA
Intel Xeon W-11855M @ 3.20GHz	18,264	\$450.00*
AMD Ryzen 5 7535HS	18,241	NA
Intel Core i5-12450H	17,787	\$311.00*
AMD Ryzen 5 PRO 7540U	17,773	NA
Intel Core i7-1270P	17,615	NA
Intel Core i5-1335U	17,539	\$340.00*
AMD Ryzen 7 4980U Microsoft Surface Edition	17,469	NA
Intel Core i5-1240P	17,352	NA
Intel Core i7-1260P		

AMD Ryzen 7 PRO 5850U	17,176	NA
Apple M1 Pro 8 Core 3200 MHz	17,146	NA
 CPU Benchmarks ▼		
AMD Ryzen 5 PRO 6650U	16,788	NA
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	16,216	\$250.00*
AMD Ryzen 7 PRO 5875U	16,203	NA
AMD Ryzen 5 7530U	16,114	NA
Intel Core i7-11600H @ 2.90GHz	15,992	\$395.00*
AMD Ryzen 7 4850U Mobile	15,920	NA
AMD Ryzen 7 5700U	15,838	NA
Intel Core i5-11400H @ 2.70GHz	15,835	\$250.00*
Intel Core i5-11260H @ 2.60GHz	15,761	\$250.00*
AMD Ryzen 5 PRO 7530U	15,704	NA
Intel Core i7-12700TE	15,616	\$344.00*
Intel Core i7-1365U	15,571	\$426.00*
AMD Ryzen 5 5600U	15,459	NA
Apple M2 8 Core 3500 MHz	15,443	NA
Intel Core i5-1345U	15,318	\$309.00*
Intel Core i7-1355U	15,283	\$469.00*
AMD Ryzen 5 5625U	15,123	NA
AMD Ryzen 5 5560U	15,095	NA
AMD Ryzen 5 PRO 5650U	15,000	NA
AMD Ryzen 5 PRO 4400GE	14,795	NA
Intel Core i5-12500TE	14,501	\$205.00*
AMD Ryzen 5 PRO 5675U	14,437	NA
Intel Core i3-1220P	14,394	\$281.00*
Intel Core i5-1240U	14,323	NA
Apple M1 8 Core 3200 MHz	14,223	NA
Intel Core i7-1265U	14,024	\$426.00*
Intel Core i7-1255U	13,791	\$426.00*
Intel Core i5-1235U	13,608	\$309.00*
Intel Core i5-1245U	13,510	\$309.00*
AMD Ryzen 5 5500U	13,172	NA
Intel Core i3-1315U	13,108	\$309.00*
Intel Core i3-12100TE	12,961	\$125.00*
AMD Ryzen 3 PRO 7330U	12,846	NA
Intel Core i7-1260U	12,698	NA
Intel Core i7-1250U	12,318	\$426.00*
Intel Core i7-11375H @ 3.30GHz	11,963	\$482.00*
Snapdragon 8cx Gen 3 @ 3.0 GHz	11,822	NA
Intel Core i7-11370H @ 3.30GHz	11,773	\$426.00*
AMD Ryzen 3 5400U	11,524	NA
AMD Ryzen 3 5425U	11,457	NA
Intel Core i5-10500H @ 2.50GHz	11,314	\$250.00*
AMD Ryzen 3 PRO 5475U		

Intel Core i5-1230U	11,052	\$309.00*
Intel Core i3-1215U	11,032	NA
 CPU Benchmarks ▼		
AMD Ryzen 3 7330U	10,952	NA
Intel Core i5-11320H @ 3.20GHz	10,950	\$309.00*
AMD Ryzen 3 PRO 4200GE	10,930	NA
Intel Core i3-1210U	10,856	NA
Intel Core i7-1185G7E @ 2.80GHz	10,444	\$431.00*
Intel Core i5-1334U	10,366	\$340.00*
Intel Core i7-11390H @ 3.40GHz	10,340	\$426.00*
Intel Core i5-1155G7 @ 2.50GHz	10,315	\$309.00*
Intel Core i3-N305	10,045	\$309.00*
Intel Core i5-1145G7 @ 2.60GHz	9,979	NA
Intel Core i3-1125G4 @ 2.00GHz	9,777	NA
Intel Core i3-1305U	9,724	\$309.00*
AMD Ryzen 3 5300U	9,709	NA
AMD Ryzen 5 7520U	9,606	NA
Intel U300	9,368	\$193.00*
Intel Pentium Gold 8505	9,295	NA
Intel Core i7-1265UE	9,195	\$472.00*
Intel Core i7-1160G7 @ 1.20GHz	9,173	\$426.00*
AMD Ryzen 3 7320U	9,154	NA
Intel Core i5-1130G7 @ 1.10GHz	8,659	\$309.00*
Intel Core i5-10500TE @ 2.30GHz	8,449	\$195.00*
Intel Core i7-1180G7 @ 1.30GHz	8,335	\$426.00*
AMD Athlon Gold PRO 4150GE	8,259	NA
AMD Ryzen 3 7320C	8,252	NA
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	6,759	NA
Snapdragon 8cx Gen 2 @ 3.15 GHz	6,581	NA
Intel Core i3-1115G4 @ 3.00GHz	6,145	\$281.00*
AMD Ryzen 3 3350U	5,853	NA
Intel Core i5-7440EQ @ 2.90GHz	5,711	\$250.00*
AMD Ryzen 5 3500C	5,564	NA
Intel N95	5,429	NA
Intel Pentium Silver N6005 @ 2.00GHz	5,386	NA
Intel Pentium Gold 7505 @ 2.00GHz	5,252	NA
Snapdragon 8c @ 2.46 GHz	5,230	NA
AMD Athlon Gold 7220U	4,958	NA
Snapdragon 8cx @ 2.84 GHz	4,660	NA
Intel Core i7-6970HQ @ 2.80GHz	4,632	NA
AMD Athlon Silver 3050GE	4,545	NA
Intel Core i3-9100TE @ 2.20GHz	4,501	\$122.00*
Intel Pentium 6805 @ 1.		i*

AMD Athlon PRO 300U	4,080	NA
Snapdragon 7c Gen 2 @ 2.55 GHz	3,818	NA
 CPU Benchmarks ▼		
Intel Pentium Silver N5020 @ 1.10GHz	3,404	NA
Intel Celeron N5100 @ 1.10GHz	3,373	NA
Snapdragon 850 @ 2.96 GHz	3,326	NA
Snapdragon 7c @ 2.40 GHz	3,315	NA
AMD Athlon Gold 3150C	3,292	NA
Intel Core i3-6167U @ 2.70GHz	3,255	NA
AMD Ryzen 3 3250C	3,208	NA
AMD Athlon Silver 3050e	3,043	NA
AMD Ryzen Embedded R1305G	2,980	NA
AMD Athlon Silver 3050C	2,879	NA
AMD Athlon Silver 7120U	2,856	NA
Intel Celeron 7305	2,339	\$107.00*
AMD Athlon PRO 3045B	2,284	NA
Snapdragon 835	2,211	NA
Intel Celeron 6305 @ 1.80GHz	2,083	NA
Intel Celeron N4020C @ 1.10GHz	1,605	NA
Intel Pentium Dual T2390 @ 1.86GHz	745	NA

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