

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.

Home **CPU S**

CPU Mark	Price Performance	Sorted by Date
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High End

High Mid Range

Low Mid Range

Low End

Best Value (On Market)

Best Value XY Scatter

Best Value (All time)

New Desktop

New Laptop

Single Thread

Systems with Multiple CPUs

Overclocked

Power Performance

CPU Mark by Socket Type

Cross-Platform CPU Performance

Top Gaming CPUs

CPU Mega List

PassMark - CPU Mark

Laptop & Portable CPU Performance

Updated 13th of July 2023

CPU	CPU Mark	Price (USD)
AMD Ryzen 9 7945HX	58,003	NA
Intel Core i9-13980HX	48,720	\$668.00*
AMD Ryzen 9 7845HX	46,658	NA
Intel Core i9-13950HX	45,544	\$590.00*
Intel Core i9-13900HX	45,430	\$668.00*
Intel Core i7-13850HX	39,035	\$428.00*
Intel Core i9-12900HX	34,972	\$606.00*
Intel Core i7-13700HX	34,698	\$485.00*
Intel Core i9-13905H	33,881	\$697.00*
AMD Ryzen 7 7745HX	33,750	NA
Intel Core i7-12800HX	33,475	\$457.00*
Intel Core i9-12950HX	33,002	\$590.00*
Intel Core i7-13650HX	32,470	\$485.00*
AMD Ryzen 9 7940HS	31,193	NA
AMD Ryzen 7 7840HS	31,094	NA
AMD Ryzen 9 7940H	31,094	NA
Intel Core i9-13900HX	31,068	\$697.00*
Intel Core i9-13900H	30,794	\$617.00*
Intel Core i7-12850HX	30,490	\$428.00*
Intel Core i5-13600HX	29,716	\$284.00*
AMD Ryzen 9 PRO 7940HS	29,623	NA
Intel Core i7-13700H	29,293	\$502.00*

Search Model

Intel Core i9-12900H	28,867	\$617.00*
Intel Core i5-13500HX	28,370	\$326.00*
Intel Core i7-13800H	27,690	\$457.00*
AMD Ryzen 7 7840H	27,351	NA
Intel Core i7-13620H	27,229	\$502.00*
Intel Core i7-12700H	26,586	\$457.00*
Apple M2 Pro 12 Core 3480 MHz	26,447	NA
Intel Core i5-13450HX	26,348	\$326.00*
Apple M2 Max 12 Core 3680 MHz	26,242	NA
Intel Core i5-13600H	25,776	\$311.00*
Intel Core i7-12800H	24,956	\$457.00*
AMD Ryzen 9 6900HX	24,955	NA
AMD Ryzen 7 PRO 7840HS	24,466	NA
AMD Ryzen 7 7735H	24,347	NA
AMD Ryzen 7 7735HS	24,245	NA
AMD Ryzen 9 6900HS	24,014	NA
Intel Core i7-12650H	23,988	\$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	23,721	NA
Intel Core i5-13500H	23,554	NA
AMD Ryzen 9 PRO 6950HS	23,295	NA
AMD Ryzen 7 6800HS	23,059	NA
Intel Core i9-11980HK @ 2.60GHz	23,053	\$583.00*
AMD Ryzen 7 PRO 6850H	23,041	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	22,819	NA
Intel Core i7-1370P	22,653	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	22,096	NA
AMD Ryzen 7 PRO 6850HS	22,044	NA
AMD Ryzen 9 5900HS	21,961	NA
Apple M1 Pro 10 Core 3200 MHz	21,880	NA
Apple M2 Pro 10 Core 3480 MHz	21,724	NA
Intel Core i5-12500H	21,589	\$311.00*
Intel Core i9-11950H @ 2.60GHz	21,586	\$556.00*
AMD Ryzen 7 5800H	21,248	NA
Intel Core i5-1340P	21,201	\$353.00*
AMD Ryzen 9 5980HS	21,186	NA
AMD Ryzen 7 5800HS Creator Edition	21,166	NA
Intel Core i9-11900H @ 2.50GHz	21,081	\$546.00*
AMD Ryzen 7 7735U	21,027	NA

Home CPU Benchmarks

Common Most Benchmarked

AMD vs Intel Market Share Year on Year Performance

🏠 CPU Benchmarks ▼

AMD Ryzen 7 PRO 6860Z	20,994	NA
AMD Ryzen 7 PRO 6850U	20,963	NA
Intel Core i7-11800H @ 2.30GHz	20,867	\$395.00*
Intel Core i7-11850H @ 2.50GHz	20,848	\$395.00*
Intel Core i5-1250P	20,838	NA
AMD Ryzen 7 6800U	20,605	NA
AMD Ryzen 7 5800HS	20,489	NA
Intel Core i7-1280P	20,435	\$482.00*
AMD Ryzen 5 PRO 6650H	20,103	NA
AMD Ryzen 5 7540U	20,083	NA
AMD Ryzen 5 7535HS	20,011	NA
Intel Core i7-1360P	19,519	\$480.00*
AMD Ryzen 5 6600H	19,130	NA
Intel Core i5-1335U	19,074	\$340.00*
AMD Ryzen 5 6600HS Creator Edition	18,942	NA
AMD Ryzen 7 7730U	18,899	NA
AMD Ryzen 7 5800U	18,686	NA
AMD Ryzen 7 5825U	18,529	NA
Intel Xeon W-11855M @ 3.20GHz	18,295	\$450.00*
AMD Ryzen 7 Extreme Edition	18,185	NA
Intel Core i5-12450H	17,941	\$311.00*
Intel Core i5-13420H	17,834	\$342.00*
Intel Core i7-1270P	17,708	NA
Intel Core i5-1240P	17,512	NA
AMD Ryzen 7 4980U Microsoft Surface Edition	17,469	NA
Intel Core i7-1260P	17,380	NA
AMD Ryzen 7 PRO 5850U	17,330	NA
AMD Ryzen 5 7535U	17,247	NA
AMD Ryzen 5 6600U	17,223	NA
Apple M1 Pro 8 Core 3200 MHz	17,173	NA
AMD Ryzen 5 5600H	17,148	NA
AMD Ryzen 5 PRO 7530U	17,029	NA
AMD Ryzen 5 PRO 6650U	16,757	NA
AMD Ryzen 7 PRO 5875U	16,520	NA
AMD Ryzen 5 7530U	16,509	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	16,048	\$469.00*
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 i5-11400H @ 2.70GHz	15,873	\$250.00*
AMD Ryzen 7 5700U	15,849	NA
Intel Core i5-11260H @ 2.60GHz	15,805	\$250.00*
Intel Core i7-12700TE	15,616	\$344.00*
Intel Core i7-1365U	15,583	\$426.00*

🏠 CPU Benchmarks ▼

AMD Ryzen 5 5600U	15,485	NA
Apple M2 8 Core 3500 MHz	15,354	NA
AMD Ryzen 5 5625U	15,123	NA
AMD Ryzen 5 PRO 5650U	15,088	NA
AMD Ryzen 5 PRO 5675U	14,798	NA
AMD Ryzen 5 PRO 4400GE	14,795	NA
Intel Core i7-10870H @ 2.20GHz	14,743	\$417.00*
Intel Core i3-1220P	14,537	\$281.00*
Intel Core i5-1240U	14,323	NA
AMD Ryzen 5 4600HS	14,298	NA
Intel Core i7-1265U	14,112	\$426.00*
Apple M1 8 Core 3200 MHz	14,106	NA
Intel Core i7-1255U	13,915	\$426.00*
Intel Core i5-1235U	13,630	\$309.00*
Intel Core i5-1245U	13,537	\$309.00*
Intel Core i3-1315U	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*
AMD Ryzen 3 PRO 7330U	12,913	NA
Intel Xeon W-10855M @ 2.80GHz	12,905	\$450.00*
Intel Core i7-1250U	12,866	\$426.00*
Intel Core i7-11375H @ 3.30GHz	12,159	\$482.00*
Intel Core i7-11370H @ 3.30GHz	11,819	\$426.00*
Snapdragon 8cx Gen 3 @ 3.0 GHz	11,789	NA
AMD Ryzen 3 5425U	11,571	NA
AMD Ryzen 3 5400U	11,539	NA
Intel Core i5-10500H @ 2.50GHz	11,428	\$250.00*
AMD Ryzen 3 PRO 5475U	11,272	NA
Intel Core i3-1215U	11,158	NA
Intel Core i5-11320H @ 3.20GHz	11,106	\$309.00*
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 i5-11300H @ 3.10GHz	11,000	\$309.00*
AMD Ryzen 3 PRO 4200GE	10,930	NA
AMD Ryzen 3 7330U	10,735	NA
Intel Core i7-1185G7 @ 3.00GHz	10,601	\$426.00*
Intel Core i7-1265UE	10,573	\$472.00*
Intel Core i5-1230U	10,505	\$309.00*
Intel Core i7-11390H @ 3.40GHz	10,462	\$426.00*
Intel Core i7-1185G7E @ 2.80GHz	10,444	\$431.00*
Intel Core i7-1165G7 @ 2.80GHz	10,385	\$426.00*
Intel Core i5-1334U	10,366	\$340.00*
Intel Core i5-1155G7 @ 2.50GHz	10,317	\$309.00*
Intel Core i3-N305	10,279	\$309.00*
AMD Ryzen 3 PRO 4450U	10,092	NA
Intel Core i5-1145G7 @ 2.60GHz	9,997	NA
Intel Core i5-1135G7 @ 2.40GHz	9,943	\$309.00*

 CPU Benchmarks ▼

Intel Core i3-1125G4 @ 2.00GHz	9,860	NA
AMD Ryzen 5 7520U	9,792	NA
Intel Core i3-1305U	9,405	\$309.00*
AMD Ryzen 3 7320U	9,258	NA
Intel Core i7-1160G7 @ 1.20GHz	9,169	\$426.00*
Intel Pentium Gold 8505	8,994	NA
Intel U300	8,957	\$193.00*
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	8,243	\$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	5,870	NA
Intel Core i5-7440EQ @ 2.90GHz	5,711	\$250.00*
AMD Ryzen 5 3500C	5,564	NA
Intel N95	5,443	NA
Intel Pentium Silver N6005 @ 2.00GHz	5,395	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
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	3,348	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

[Home](#) CPU Benchmarks ▼

AMD Athlon Silver 7120U	2,558	NA
Intel Celeron 7305	2,189	\$107.00*
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

Software

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