

CPU Benchmarks

Over 1,000,000 CPUs Benchmarks

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

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

CPU Mark | Price Performance | Sorted by Date

PassMark - CPU Mark

Laptop & Portable CPU Performance
Updated 23rd of May 2023

CPU	CPU Mark	Price (USD)
AMD Ryzen 9 7945HX	58,486	NA
Intel Core i9-13980HX	49,345	\$668.00*
AMD Ryzen 9 7845HX	46,859	NA
Intel Core i9-13900HX	45,973	\$668.00*
Intel Core i9-13950HX	45,743	\$590.00*
Intel Core i7-13850HX	37,956	\$428.00*
Intel Core i9-12900HX	35,459	\$606.00*
AMD Ryzen 7 7745HX	35,047	NA
Intel Core i7-13700HX	33,896	\$485.00*
Intel Core i7-12800HX	33,450	\$457.00*
Intel Core i9-12950HX	33,101	\$590.00*
Intel Core i7-13650HX	32,715	\$485.00*
AMD Ryzen 9 7940H	32,499	NA
Intel Core i9-13900H	31,371	\$617.00*
Intel Core i7-12850HX	30,386	\$428.00*
AMD Ryzen 9 7940HS	30,153	NA
Intel Core i7-13700H	29,810	\$502.00*
Intel Core i5-13600HX	29,716	\$284.00*
AMD Ryzen 7 7840HS	29,623	NA
Intel Core i9-12900H	28,932	\$617.00*
Intel Core i9-12900HK	28,505	\$635.00*

Search Model


	Intel Core i7-13800H		28,042	\$457.00*
	Intel Core i7-13620H		27,191	\$502.00*

CPU Benchmarks

Common
Most
Benchmarked

AMD vs Intel
Market Share
Year on Year
Performance

	Apple M2 Pro 12 Core 3480 MHz		26,443	NA
	Apple M2 Max 12 Core 3680 MHz		26,222	NA
	Intel Core i9-13900HK		26,128	\$697.00*
	Intel Core i5-13600H		25,776	\$311.00*
	AMD Ryzen 9 6900HX		24,957	NA
	Intel Core i7-12800H		24,929	\$457.00*
	Intel Core i5-12600HX		24,470	\$284.00*
	AMD Ryzen 7 7735HS		24,315	NA
	Intel Core i7-12650H		24,169	\$457.00*
	AMD Ryzen 7 7735H		24,080	NA
	AMD Ryzen 9 6900HS		24,037	NA
	AMD Ryzen 7 7736U		23,860	NA
	AMD Ryzen 7 6800H		23,793	NA
	AMD Ryzen 9 5980HX		23,663	NA
	AMD Ryzen 9 PRO 6950HS		23,295	NA
	AMD Ryzen 7 PRO 6850H		23,269	NA
	Intel Core i9-11980HK @ 2.60GHz		23,143	\$583.00*
	Intel Xeon W-11955M @ 2.60GHz		23,029	\$623.00*
	Intel Core i5-12600H		22,998	\$311.00*
	AMD Ryzen 7 6800HS		22,959	NA
	Intel Core i5-13500H		22,898	NA
	AMD Ryzen 7 6800HS Creator Edition		22,888	NA
	AMD Ryzen 9 5900HX		22,828	NA
	AMD Ryzen 9 PRO 6950H		22,532	NA
	Intel Core i7-1370P		22,520	NA
	AMD Ryzen 9 6900HS Creator Edition		22,489	NA
	Intel Core i5-1350P		22,320	\$320.00*
	Apple M1 Max 10 Core 3200 MHz		22,102	NA
	AMD Ryzen 7 PRO 6850HS		22,044	NA
	AMD Ryzen 9 5900HS		21,979	NA
	Apple M1 Pro 10 Core 3200 MHz		21,890	NA
	Apple M2 Pro 10 Core 3480 MHz		21,752	NA
	Intel Core i9-11950H @ 2.60GHz		21,698	\$556.00*
	Intel Core i5-12500H		21,565	\$311.00*
	AMD Ryzen 7 5800H		21,259	NA
	Intel Core i5-1340P		21,191	\$353.00*
	AMD Ryzen 7 5800HS Creator Edition		21,166	NA
	Intel Core i9-11900H @ 2.50GHz		21,109	\$546.00*
	AMD Ryzen 9 5980HS		21,058	NA
	AMD Ryzen 7 7735U		21,004	NA
	AMD Ryzen 7 PRO 6860Z		20,991	NA
	AMD Ryzen 9 5900H		20,960	NA
	Intel Core i7-11800H @ 2.30GHz		20,924	\$395.00*
	AMD Ryzen 7 PRO 6850U		20,902	NA
	Intel Core i5-1250P		20,843	NA
	Intel Core i7-11850H @ 2.50GHz		20,814	\$395.00*

































AMD Ryzen 7 6800U		20,652	NA
AMD Ryzen 7 5800HS		20,549	NA

🏠 CPU Benchmarks ▼

Intel Core i7-1360P		20,346	\$480.00*
AMD Ryzen 5 PRO 6650H		20,103	NA
Intel Core i5-13420H		19,950	\$342.00*
AMD Ryzen 5 7535HS		19,523	NA
AMD Ryzen 9 4900H		19,349	NA
AMD Ryzen 5 6600HS Creator Edition		19,060	NA
AMD Ryzen 5 6600H		19,053	NA
AMD Ryzen 7 7730U		19,017	NA
AMD Ryzen 7 5800U		18,677	NA
AMD Ryzen 7 5825U		18,583	NA
Intel Xeon W-11855M @ 3.20GHz		18,324	\$450.00*
AMD Ryzen 7 Extreme Edition		18,185	NA
Intel Core i5-12450H		17,869	\$311.00*
Intel Core i7-1270P		17,748	NA
Intel Core i5-1335U		17,607	\$340.00*
Intel Core i5-1240P		17,582	NA
AMD Ryzen 7 4980U Microsoft Surface Edition		17,469	NA
Intel Core i7-1260P		17,420	NA
AMD Ryzen 7 PRO 5850U		17,360	NA
AMD Ryzen 5 6600U		17,274	NA
Apple M1 Pro 8 Core 3200 MHz		17,184	NA
AMD Ryzen 5 5600H		17,171	NA
Intel Core i5-1345U		16,810	\$309.00*
AMD Ryzen 5 PRO 6650U		16,690	NA
AMD Ryzen 5 7535U		16,670	NA
AMD Ryzen 7 PRO 5875U		16,491	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*
AMD Ryzen 5 7530U		16,305	NA
Intel Core i5-11500H @ 2.90GHz		16,095	\$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		15,910	\$250.00*
AMD Ryzen 7 5700U		15,847	NA
Intel Core i7-1355U		15,836	\$469.00*
Intel Xeon W-10885M @ 2.40GHz		15,778	\$623.00*
Intel Core i5-11260H @ 2.60GHz		15,695	\$250.00*
Intel Core i7-12700TE		15,616	\$344.00*
AMD Ryzen 5 5600U		15,464	NA
Intel Core i9-10885H @ 2.40GHz		15,343	\$556.00*
Apple M2 8 Core 3500 MHz		15,335	NA
AMD Ryzen 5 5560U		15,255	NA
AMD Ryzen 7 PRO 4750U		15,253	NA
Intel Core i7-1365U		15,247	\$426.00*
AMD Ryzen 5 PRO 5650U		15,095	NA

AMD Ryzen 5 5625U		15,055	NA
AMD Ryzen 5 PRO 5675U		14,896	NA

🏠 CPU Benchmarks ▼

Intel Core i7-10870H @ 2.20GHz		14,747	\$417.00*
Intel Core i9-10880H @ 2.30GHz		14,736	NA
Intel Core i3-1220P		14,478	\$281.00*
Intel Core i5-1240U		14,323	NA
AMD Ryzen 5 4600HS		14,256	NA
Apple M1 8 Core 3200 MHz		14,150	NA
Intel Core i7-1265U		13,954	\$426.00*
Intel Core i7-1255U		13,954	\$426.00*
Intel Core i3-1315U		13,755	\$309.00*
Intel Core i5-1235U		13,677	\$309.00*
Intel Core i5-1245U		13,454	\$309.00*
AMD Ryzen 5 5500U		13,185	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*
AMD Ryzen 3 PRO 7330U		12,862	NA
AMD Ryzen 5 PRO 4650U		12,798	NA
Intel Core i7-1250U		12,774	\$426.00*
Intel Core i7-11375H @ 3.30GHz		12,239	\$482.00*
AMD Ryzen 5 PRO 4500U		12,049	NA
Snapdragon 8cx Gen 3 @ 3.0 GHz		11,955	NA
Intel Core i7-11370H @ 3.30GHz		11,812	\$426.00*
AMD Ryzen 3 5425U		11,574	NA
AMD Ryzen 3 5400U		11,538	NA
Intel Core i5-10500H @ 2.50GHz		11,453	\$250.00*
AMD Ryzen 3 PRO 5475U		11,272	NA
Intel Core i3-1215U		11,266	NA
Intel Core i3-1210U		11,087	NA
Intel Core i7-1195G7 @ 2.90GHz		11,060	\$426.00*
Intel Core i5-11300H @ 3.10GHz		11,036	\$309.00*
Intel Core i5-11320H @ 3.20GHz		11,019	\$309.00*
AMD Ryzen 3 PRO 5450U		11,009	NA
AMD Ryzen 3 PRO 4200GE		10,930	NA
Intel Core i7-1185G7 @ 3.00GHz		10,616	\$426.00*
Intel Core i7-1265UE		10,573	\$472.00*
Intel Core i7-11390H @ 3.40GHz		10,547	\$426.00*
Intel Core i5-1230U		10,505	\$309.00*
AMD Ryzen 3 7330U		10,489	NA
Intel Core i7-1185G7E @ 2.80GHz		10,444	\$431.00*
Intel Core i7-1165G7 @ 2.80GHz		10,397	\$426.00*
Intel Core i3-N305		10,368	\$309.00*
Intel Core i5-1155G7 @ 2.50GHz		10,252	\$309.00*
AMD Ryzen 3 PRO 4450U		10,092	NA
Intel Core i5-1145G7 @ 2.60GHz		10,031	NA
Intel Core i5-10500TE @ 2.30GHz		9,960	\$195.00*
Intel Core i5-1135G7 @ 2.40GHz		9,955	\$309.00*
Intel Core i3-1125G4 @ 2.00GHz		9,882	NA

AMD Ryzen 5 7520U		9,816	NA
AMD Ryzen 3 5300U		9,808	NA

CPU Benchmarks

Intel Core i7-1160G7 @ 1.20GHz		9,193	\$426.00*
Intel Core i5-9500TE @ 2.20GHz		9,028	\$192.00*
Intel Pentium Gold 8505		8,908	NA
Intel Core i5-1130G7 @ 1.10GHz		8,792	\$309.00*
Intel Core i5-10400H @ 2.60GHz		8,622	\$250.00*
Intel Core i7-1180G7 @ 1.30GHz		8,345	\$426.00*
Intel Core i5-10200H @ 2.40GHz		8,288	\$250.00*
Intel Core i7-10810U @ 1.10GHz		8,209	\$443.00*
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
Intel Core i7-10610U @ 1.80GHz		6,894	\$409.00*
AMD Ryzen 5 3450U		6,763	NA
Snapdragon 8cx Gen 2 @ 3.0 GHz		6,733	NA
Snapdragon 8cx Gen 2 @ 3.15 GHz		6,511	NA
Intel Core i3-1115G4 @ 3.00GHz		6,174	\$281.00*
AMD Ryzen 3 3350U		5,896	NA
Intel Core i5-7440EQ @ 2.90GHz		5,711	\$250.00*
Intel N95		5,504	NA
Intel Pentium Silver N6005 @ 2.00GHz		5,402	NA
AMD Ryzen 5 3500C		5,372	NA
Intel Pentium Gold 7505 @ 2.00GHz		5,268	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
AMD Athlon PRO 300U		4,080	NA
Intel Core i3-8145UE @ 2.20GHz		4,074	\$281.00*
AMD Athlon Gold 3150U		4,031	NA
Snapdragon 7c Gen 2 @ 2.55 GHz		3,728	NA
Snapdragon 7c @ 1.96 GHz		3,457	NA
Intel Core i5-L16G7 @ 1.40GHz		3,447	\$281.00*
Intel Pentium Silver N5020 @ 1.10GHz		3,404	NA
Intel Celeron N5100 @ 1.10GHz		3,383	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 850 @ 2.96 GHz		3,080	NA
Snapdragon 7c @ 2.40 GHz		3,074	NA
AMD Athlon Silver 3050e		3,031	NA

AMD Ryzen Embedded R1305G	2,980	NA
AMD 3015e	2,700	NA

🏠 CPU Benchmarks ▼

Intel Celeron 7305	2,189	\$107.00*
Intel Celeron 6305 @ 1.80GHz	2,071	NA
Snapdragon 835	1,905	NA
Intel Pentium 4425Y @ 1.70GHz	1,710	\$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	Hardware	Benchmarks	About Us	Services	International
<ul style="list-style-type: none"> > BurnInTest > PerformanceTest > OSForensics > MemTest86 > WirelessMon > Management Console > Zoom Search Engine > Free Software 	<ul style="list-style-type: none"> > USB3.0 Loopback Plugs > USB2.0 Loopback Plugs > PCIe Test Cards > USB Power Delivery Tester > Serial and Parallel Loopback Plugs > USB Short Circuit Testers 	<ul style="list-style-type: none"> > CPU Benchmarks > Video Card Benchmarks > Hard Drive Benchmarks > RAM Benchmarks > PC Systems Benchmarks > Android Benchmarks > iOS / iPhone Benchmarks > Software Marketshare > Internet Bandwidth 	<ul style="list-style-type: none"> > Company > Contact Us > The Press Room 	<ul style="list-style-type: none"> Store Support Forums 	<ul style="list-style-type: none"> Disclaimer Refunds Privacy Social 