CPU Benchmarks

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.

CPUS

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 | Price Performance | Sorted by Date

PassMark - CPU Mark

Laptop & Portable CPU Performance

Updated 8th of December 2022

CPU	CPU Mark	Price (USD)
Intel Core i9-12900HX	35,177	$606.00*
Intel Core i7-12800HX	34,105	$457.00*
Intel Core i9-12950HX	32,031	$590.00*
Intel Core i7-12850HX	30,109	$428.00*
Intel Core i9-12900HK	28,986	$635.00*
Intel Core i9-12900H	28,741	$617.00*
Intel Core i7-12700H	26,806	$457.00*
AMD Ryzen 9 6900HX	25,013	NA
Intel Core i7-12650H	24,644	$457.00*
Intel Core i7-12800H	24,443	$457.00*
AMD Ryzen 9 PRO 6950H	24,059	NA
AMD Ryzen 9 6900HS	24,012	NA
AMD Ryzen 7 6800H	23,788	NA
AMD Ryzen 9 PRO 6950HS	23,705	NA
AMD Ryzen 9 5980HX	23,508	NA

CPU Mark by Socket Type

CPU Benchmarks

Top Gaming CPUs

CPU Mega List

Search Model

Compare 0

Common

Most Benchmarked

AMD vs Intel Market Share

Year on Year Performance

Intel Core i9-11980HK @ 2.60GHz	23,337	$583.00*
Intel Xeon W-11955M @ 2.60GHz	23,291	$623.00*
Edition	23,036	NA
AMD Ryzen 7 6800HS	23,026	NA
AMD Ryzen 9 5900HX	22,896	NA
AMD Ryzen 7 PRO 6850H	22,769	NA
Intel Core i5-12600H	22,704	$311.00*
AMD Ryzen 9 6900HS Creator Edition	22,532	NA
Apple M1 Max 10 Core 3200 MHz	22,212	NA
AMD Ryzen 9 5900HS	22,109	NA
Apple M1 Pro 10 Core 3200 MHz	21,996	NA
Intel Core i9-11950H @ 2.60GHz	21,993	$556.00*
Intel Core i5-12500H	21,775	$311.00*
AMD Ryzen 7 PRO 6860Z	21,543	NA
AMD Ryzen 7 5800H	21,332	NA
AMD Ryzen 7 PRO 6850U	21,155	NA
Intel Core i7-11850H @ 2.50GHz	21,109	$395.00*
Intel Core i7-11800H @ 2.30GHz	21,087	$395.00*
AMD Ryzen 9 5980HS	21,034	NA
Intel Core i9-11900H @ 2.50GHz	21,032	$546.00*
AMD Ryzen 9 5900H	20,960	NA
AMD Ryzen 7 5800HS Creator Edition	20,948	NA
AMD Ryzen 7 6800U	20,799	NA
Intel Core i7-12700TE	20,712	$344.00*
AMD Ryzen 7 5800HS	20,546	NA
Intel Core i7-1280P	20,417	$482.00*
AMD Ryzen 5 PRO 6650H	20,103	NA
AMD Ryzen 7 PRO 6850HS	20,062	NA
AMD Ryzen 9 4900HS	19,315	NA
AMD Ryzen 9 4900H	19,242	NA
AMD Ryzen 5 6600HS Creator Edition	19,122	NA
AMD Ryzen 7 4800H	18,876	NA
AMD Ryzen 7 5800U	18,799	NA
AMD Ryzen 7 4800HS	18,763	NA
AMD Ryzen 5 6600H	18,737	NA
Intel Xeon W-11855M @ 3.20GHz	18,432	$450.00*
AMD Ryzen 7 5825U	18,350	NA
AMD Ryzen 7 Extreme Edition	18,261	NA
Intel Core i5-1250P	18,117	NA
Intel Core i5-12450H	18,095	$311.00*
Intel Core i7-1270P	17,727	NA
AMD Ryzen 5 6600U	17,473	NA
AMD Ryzen 7 4980U Microsoft Surface Edition	17,469	NA
Intel Core i5-1240P	17,442	NA
AMD Ryzen 7 PRO 5850U	17,330	NA
Apple M1 Pro 8 Core 3200 MHz	17,242	NA
AMD Ryzen 5 5600H	17,138	NA
Intel Core i7-1260P	17,060	NA

Intel Core i7-1260P	17,060	NA
AMD Ryzen 7 4800U	17,020	NA

CPU Benchmarks

AMD Ryzen 5 PRO 6650U	16,401	NA
Intel Core i7-10700TE @ 2.00GHz	16,332	$330.00*
Intel Core i5-11500H @ 2.90GHz	16,150	$250.00*
Intel Xeon W-10885M @ 2.40GHz	16,036	$623.00*
Intel Core i9-10980HK @ 2.40GHz	15,983	$583.00*
AMD Ryzen 7 4850U Mobile	15,920	NA
Intel Core i5-11400H @ 2.70GHz	15,915	$250.00*
Intel Core i7-11600H @ 2.90GHz	15,907	$395.00*
AMD Ryzen 7 5700U	15,852	NA
Intel Core i5-11260H @ 2.60GHz	15,741	$250.00*
AMD Ryzen 7 PRO 5875U	15,600	NA
Intel Core i9-10885H @ 2.40GHz	15,499	$556.00*
AMD Ryzen 7 PRO 4750U	15,340	NA
AMD Ryzen 5 5600U	15,335	NA
Apple M2 8 Core 3500 MHz	15,328	NA
Intel Core i7-10875H @ 2.30GHz	15,306	$450.00*
AMD Ryzen 5 5560U	15,163	NA
AMD Ryzen 5 PRO 5650U	15,105	NA
Intel Core i3-1220P	15,090	$281.00*
AMD Ryzen 5 5625U	14,871	NA
Intel Core i7-10870H @ 2.20GHz	14,843	$417.00*
AMD Ryzen 5 PRO 4400GE	14,795	NA
Intel Core i9-10880H @ 2.30GHz	14,736	NA
AMD Ryzen 5 4600H	14,661	NA
AMD Ryzen 5 4600HS	14,565	NA
AMD Ryzen 5 PRO 5675U	14,496	NA
Apple M1 8 Core 3200 MHz	14,341	NA
Intel Core i5-1240U	14,323	NA
Intel Core i7-1250U	13,644	$426.00*
Intel Core i5-1235U	13,582	$309.00*
Intel Core i7-1265U	13,558	$426.00*
Intel Core i7-1255U	13,556	$426.00*
AMD Ryzen 7 4700U	13,531	NA
AMD Ryzen 5 4600U	13,452	NA
AMD Ryzen 5 5500U	13,163	NA
Intel Core i3-12100TE	12,961	$125.00*
Intel Core i7-1260U	12,935	NA
Intel Xeon W-10855M @ 2.80GHz	12,908	$450.00*
AMD Ryzen 5 PRO 4650U	12,820	NA
Intel Core i7-11375H @ 3.30GHz	12,264	$482.00*
Intel Core i7-10750H @ 2.60GHz	12,191	NA
Intel Core i3-1210U	12,130	NA
Intel Core i7-10850H @ 2.70GHz	12,049	$395.00*
AMD Ryzen 5 PRO 4500U	12,049	NA
Intel Core i7-11370H @ 3.30GHz	11,937	$426.00*
Snapdragon 8cx Gen 3 @ 3.0 GHz	11,783	NA

CPU Benchmarks

AMD Ryzen 3 5425U	11,548	NA
Intel Core i5-10500H @ 2.50GHz	11,515	$250.00*
AMD Ryzen 3 PRO 5450U	11,248	NA
Intel Core i7-9750HF @ 2.60GHz	11,132	$395.00*
Intel Core i5-11300H @ 3.10GHz	11,101	$309.00*
AMD Ryzen 5 4500U	11,047	NA
Intel Core i5-11320H @ 3.20GHz	10,977	$309.00*
Intel Core i7-1195G7 @ 2.90GHz	10,976	$426.00*
AMD Ryzen 3 PRO 4200GE	10,930	NA
Intel Core i5-1230U	10,826	$309.00*
Intel Core i7-1185G7 @ 3.00GHz	10,704	$426.00*
AMD Ryzen 3 5400U	10,681	NA
Intel Core i7-11390H @ 3.40GHz	10,499	$426.00*
Intel Core i7-1165G7 @ 2.80GHz	10,474	$426.00*
Intel Core i5-1155G7 @ 2.50GHz	10,135	$309.00*
Intel Core i5-1145G7 @ 2.60GHz	10,105	NA
Intel Core i7-1185G7E @ 2.80GHz	10,053	$431.00*
AMD Ryzen 3 PRO 4450U	10,046	NA
Intel Core i5-1135G7 @ 2.40GHz	10,028	$309.00*
Intel Core i5-10500TE @ 2.30GHz	9,960	$195.00*
AMD Ryzen 3 5300U	9,960	NA
Intel Core i7-1068NG7 @ 2.30GHz	9,882	$426.00*
Intel Core i3-1125G4 @ 2.00GHz	9,878	NA
Intel Core i5-1038NG7 @ 2.00GHz	9,492	$320.00*
Intel Core i7-1265UE	9,392	$472.00*
Intel Core i7-1160G7 @ 1.20GHz	9,171	$426.00*
Intel Core i5-9500TE @ 2.20GHz	9,028	$192.00*
Intel Core i5-1130G7 @ 1.10GHz	8,978	$309.00*
Intel Core i5-10400H @ 2.60GHz	8,878	$250.00*
Intel Core i5-10300H @ 2.50GHz	8,629	$250.00*
Intel Core i7-8569U @ 2.80GHz	8,386	$431.00*
Intel Core i5-10200H @ 2.40GHz	8,369	$250.00*
Intel Core i7-1180G7 @ 1.30GHz	8,304	$426.00*
Intel Core i7-8557U @ 1.70GHz	8,167	$431.00*
Intel Core i7-10810U @ 1.10GHz	8,112	$443.00*
AMD Athlon Gold PRO 4150GE	8,070	NA
Intel Core i5-8269U @ 2.60GHz	8,055	$320.00*
Intel Core i5-8260U @ 1.60GHz	7,851	$439.99*
Intel Core i5-9300HF @ 2.40GHz	7,554	$250.00*
AMD Ryzen 3 4300U	7,513	NA
Intel Core i3-10100T @ 3.00GHz	7,372	$122.00*
AMD Ryzen 7 3700C	7,145	NA
Intel Core i7-10610U @ 1.80GHz	6,958	$409.00*
Intel Core i7-1060NG7 @ 1.20GHz	6,945	NA
AMD Ryzen 5 3450U	6,778	NA
Intel Pentium Gold 8505	6,670	NA
Intel Core i5-10310U @ 1.70GHz	6,507	$297.00*
Snapdragon 8cx Gen 2 @ 3.0 GHz	6,448	NA

Intel Core i3-1115G4 @ 3.00GHz	6,208	$281.00*
Intel Core i7-8565UC @ 1.80GHz	6,187	NA

CPU Benchmarks

AMD Ryzen 3 3350U	5,917	NA
Intel Core i5-1030NG7 @ 1.10GHz	5,850	NA
Intel Core i5-7440EQ @ 2.90GHz	5,711	$250.00*
Intel Pentium Silver N6005 @ 2.00GHz	5,381	NA
Intel Pentium Gold 7505 @ 2.00GHz	5,293	NA
Snapdragon 8c @ 2.46 GHz	5,230	NA
AMD Ryzen 5 3500C	5,208	NA
Intel Core i7-10510Y @ 1.20GHz	5,100	$403.00*
Intel Core i5-10210Y @ 1.00GHz	4,817	NA
AMD Athlon Silver 3050GE	4,545	NA
Intel Core i3-9100TE @ 2.20GHz	4,501	$122.00*
Intel Pentium 6805 @ 1.10GHz	4,448	$161.00*
Snapdragon 8cx @ 2.84 GHz	4,326	NA
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	4,087	$281.00*
AMD Athlon Gold 3150U	4,012	NA
AMD Ryzen 3 3250U	3,905	NA
Intel Core i3-1000NG4 @ 1.10GHz	3,806	NA
Snapdragon 7c @ 1.96 GHz	3,628	NA
Intel Core i5-L16G7 @ 1.40GHz	3,458	$281.00*
Snapdragon 7c Gen 2 @ 2.55 GHz	3,457	NA
Intel Pentium Silver N5020 @ 1.10GHz	3,404	NA
Intel Celeron N5100 @ 1.10GHz	3,351	NA
AMD Athlon Gold 3150C	3,292	NA
Intel Core i3-10110Y @ 1.00GHz	3,269	$287.00*
AMD Ryzen Embedded R1305G	3,109	NA
AMD Ryzen 3 3250C	3,044	NA
Snapdragon 7c @ 2.40 GHz	3,033	NA
AMD Athlon Silver 3050U	2,998	NA
AMD Athlon Silver 3050e	2,964	NA
AMD 3015e	2,677	NA
Intel Celeron 7305	2,665	$107.00*
Snapdragon 850 @ 2.96 GHz	2,649	NA
Intel Pentium Silver N5030 @ 1.10GHz	2,640	NA
Intel Celeron N4120 @ 1.10GHz	2,515	NA
AMD 3020e	2,452	NA
Intel Pentium 6405U @ 2.40GHz	2,379	$161.00*
Intel Celeron 6305 @ 1.80GHz	2,062	NA
Intel Celeron 4305UE @ 2.00GHz	1,876	NA
Snapdragon 835	1,784	NA
Intel Pentium 4425Y @ 1.70GHz	1,733	$161.00*
Intel Celeron N4020C @ 1.10GHz	1,600	NA
Intel Celeron N4020 @ 1.10GHz	1,569	NA
Intel Celeron 5205U @ 1.90GHz	1,456	$107.00*
Intel Celeron N4000C @ 1.10GHz	1,379	NA

Intel Pentium A1020 @ 2.41GHz	1,290	NA

CPU Benchmarks

1.86GHz		
AMD E2-7015 APU	672	NA
AMD E2-7015	572	NA

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Software

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