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 by Socket Type

Cross-Platform CPU Performance

CPU Mega List

Search Model

CPU Mark | Price Performance | Sorted by Date

PassMark - CPU Mark

Laptop & Portable CPU Performance

Updated 29th of November 2022

CPU	CPU Mark	Price (USD)
Intel Core i9-12900HX	34,917	$606.00*
Intel Core i7-12800HX	34,370	$457.00*
Intel Core i9-12950HX	31,977	$590.00*
Intel Core i7-12850HX	30,112	$428.00*
Intel Core i9-12900HK	29,023	$635.00*
Intel Core i9-12900H	28,761	$617.00*
Intel Core i7-12700H	26,754	$457.00*
AMD Ryzen 9 6900HX	25,096	NA
Intel Core i7-12650H	24,613	$457.00*
Intel Core i7-12800H	24,353	$457.00*
AMD Ryzen 9 6900HS	24,047	NA
AMD Ryzen 7 6800H	23,859	NA
AMD Ryzen 9 PRO 6950HS	23,705	NA
AMD Ryzen 9 5980HX	23,532	NA
Intel Core i9-11980HK @ 2.60GHz	23,361	$583.00*
Intel Xeon W-11955M @ 2.60GHz	23,304	$623.00*
AMD Ryzen 9 PRO 6950H	23,076	NA
Intel Core i5-12600HX	23,066	$284.00*
AMD Ryzen 7 6800HS Creator Edition	22,981	NA
AMD Ryzen 7 PRO 6850H	22,929	NA
AMD Ryzen 9 5900HX	22,910	NA

Compare 0

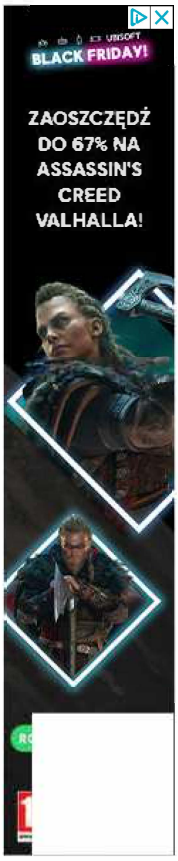
CPU Benchmarks

Most Benchmarked

AMD vs Intel Market Share

Year on Year

Performance



AMD Ryzen 7 6800HS	22,886	NA
Intel Core i5-12600H	22,704	$311.00*
Apple M1 Max 10 Core 3200 MHz	22,221	NA
AMD Ryzen 9 5900HS	22,115	NA
Apple M1 Pro 10 Core 3200 MHz	22,001	NA
Intel Core i9-11950H @ 2.60GHz	21,994	$556.00*
Intel Core i5-12500H	21,730	$311.00*
AMD Ryzen 7 PRO 6860Z	21,543	NA
AMD Ryzen 7 5800H	21,336	NA
Intel Core i7-11800H @ 2.30GHz	21,112	$395.00*
Intel Core i7-11850H @ 2.50GHz	21,104	$395.00*
Intel Core i9-11900H @ 2.50GHz	21,040	$546.00*
AMD Ryzen 7 PRO 6850U	21,035	NA
AMD Ryzen 9 5980HS	21,034	NA
AMD Ryzen 9 5900H	20,960	NA
AMD Ryzen 7 5800HS Creator Edition	20,948	NA
AMD Ryzen 7 6800U	20,734	NA
Intel Core i7-12700TE	20,712	$344.00*
AMD Ryzen 7 5800HS	20,609	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	19,319	NA
AMD Ryzen 9 4900H	19,242	NA
AMD Ryzen 5 6600HS Creator Edition	19,062	NA
AMD Ryzen 7 4800H	18,891	NA
AMD Ryzen 5 6600H	18,789	NA
AMD Ryzen 7 5800U	18,784	NA
AMD Ryzen 7 4800HS	18,773	NA
Intel Xeon W-11855M @ 3.20GHz	18,432	$450.00*
Intel Core i5-1250P	18,413	NA
AMD Ryzen 7 5825U	18,315	NA
AMD Ryzen 7 Extreme Edition	18,261	NA
Intel Core i5-12450H	18,028	$311.00*
Intel Core i7-1270P	17,757	NA
Intel Core i5-1240P	17,588	NA
AMD Ryzen 5 6600U	17,473	NA
AMD Ryzen 7 4980U Microsoft Surface Edition	17,469	NA
AMD Ryzen 7 PRO 5850U	17,361	NA
Apple M1 Pro 8 Core 3200 MHz	17,248	NA
AMD Ryzen 5 5600H	17,133	NA
Intel Core i7-1260P	17,054	NA
AMD Ryzen 7 4800U	17,021	NA
Intel Core i5-12500TE	16,584	$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 PRO 6650U	16,245	NA
Intel Core i5-11500H @ 2.90GHz	16,195	$250.00*

AMD Ryzen 7 PRO 5875U	16,121	NA
Intel Xeon W-10885M @ 2.40GHz	16,057	$623.00*

CPU Benchmarks

AMD Ryzen 7 4850U Mobile	15,920	NA
Intel Core i7-11600H @ 2.90GHz	15,907	$395.00*
AMD Ryzen 7 5700U	15,852	NA
Intel Core i5-11260H @ 2.60GHz	15,733	$250.00*
Intel Core i9-10885H @ 2.40GHz	15,501	$556.00*
Apple M2 8 Core 3500 MHz	15,351	NA
AMD Ryzen 7 PRO 4750U	15,337	NA
AMD Ryzen 5 5600U	15,324	NA
AMD Ryzen 5 5560U	15,317	NA
Intel Core i7-10875H @ 2.30GHz	15,313	$450.00*
AMD Ryzen 5 PRO 5650U	15,105	NA
Intel Core i3-1220P	15,090	$281.00*
AMD Ryzen 5 5625U	14,867	NA
Intel Core i7-10870H @ 2.20GHz	14,855	$417.00*
AMD Ryzen 5 PRO 4400GE	14,795	NA
Intel Core i9-10880H @ 2.30GHz	14,736	NA
AMD Ryzen 5 4600H	14,664	NA
AMD Ryzen 5 4600HS	14,565	NA
AMD Ryzen 5 PRO 5675U	14,496	NA
Apple M1 8 Core 3200 MHz	14,356	NA
Intel Core i5-1240U	14,323	NA
Intel Core i7-1255U	13,560	$426.00*
Intel Core i5-1235U	13,554	$309.00*
Intel Core i7-1265U	13,537	$426.00*
AMD Ryzen 7 4700U	13,525	NA
AMD Ryzen 5 4600U	13,452	NA
Intel Core i7-1250U	13,239	$426.00*
AMD Ryzen 5 5500U	13,164	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	12,809	NA
Intel Core i7-11375H @ 3.30GHz	12,264	$482.00*
Intel Core i7-10750H @ 2.60GHz	12,192	NA
Intel Core i3-1210U	12,130	NA
Intel Core i7-10850H @ 2.70GHz	12,065	$395.00*
AMD Ryzen 5 PRO 4500U	12,049	NA
Intel Core i7-11370H @ 3.30GHz	11,935	$426.00*
Snapdragon 8cx Gen 3 @ 3.0 GHz	11,783	NA
AMD Ryzen 3 5425U	11,544	NA
Intel Core i5-10500H @ 2.50GHz	11,536	$250.00*
Intel Core i3-1215U	11,428	NA
AMD Ryzen 3 PRO 5475U	11,339	NA
AMD Ryzen 3 PRO 5450U	11,248	NA
Intel Core i7-9750HF @ 2.60GHz	11,132	$395.00*
Intel Core i5-11300H @ 3.10GHz	11,103	$309.00*

AMD Ryzen 5 4500U	11,048	NA
Intel Core i5-11320H @ 3.20GHz	10,979	$309.00*

CPU Benchmarks

Intel Core i5-1230U	10,826	$309.00*
Intel Core i7-9700TE @ 1.80GHz	10,740	$323.00*
Intel Core i7-1185G7 @ 3.00GHz	10,711	$426.00*
AMD Ryzen 3 5400U	10,658	NA
Intel Core i7-11390H @ 3.40GHz	10,483	$426.00*
Intel Core i7-1165G7 @ 2.80GHz	10,480	$426.00*
Intel Core i5-1155G7 @ 2.50GHz	10,112	$309.00*
Intel Core i5-1145G7 @ 2.60GHz	10,101	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	10,027	$309.00*
AMD Ryzen 3 5300U	9,974	NA
Intel Core i5-10500TE @ 2.30GHz	9,960	$195.00*
Intel Core i3-1125G4 @ 2.00GHz	9,900	NA
Intel Core i7-1068NG7 @ 2.30GHz	9,889	$426.00*
Intel Core i5-1038NG7 @ 2.00GHz	9,510	$320.00*
Intel Core i7-1265UE	9,392	$472.00*
Intel Core i7-1160G7 @ 1.20GHz	9,200	$426.00*
Intel Core i7-9850HL @ 1.90GHz	9,112	$395.00*
Intel Core i5-9500TE @ 2.20GHz	9,028	$192.00*
Intel Core i5-1130G7 @ 1.10GHz	8,929	$309.00*
Intel Core i5-10400H @ 2.60GHz	8,878	$250.00*
Intel Core i5-10300H @ 2.50GHz	8,631	$250.00*
Intel Core i5-10200H @ 2.40GHz	8,364	$250.00*
Intel Core i7-8569U @ 2.80GHz	8,351	$431.00*
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	8,077	$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	7,571	$250.00*
AMD Ryzen 3 4300U	7,533	NA
Intel Core i3-10100T @ 3.00GHz	7,344	$122.00*
AMD Ryzen 7 3700C	7,145	NA
Intel Core i7-10610U @ 1.80GHz	6,981	$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	6,509	$297.00*
Snapdragon 8cx Gen 2 @ 3.0 GHz	6,448	NA
Intel Core i3-1115G4 @ 3.00GHz	6,218	$281.00*
Intel Core i7-8565UC @ 1.80GHz	6,187	NA
Snapdragon 8cx Gen 2 @ 3.15 GHz	6,171	NA
AMD Ryzen 3 3350U	5,904	NA
Intel Core i5-1030NG7 @ 1.10GHz	5,858	NA

CPU Benchmarks

Intel Core i5-7440EQ @ 2.90GHz	5,711	$250.00*
Intel Pentium Silver N6005 @ 2.00GHz		
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	4,011	NA
AMD Ryzen 3 3250U	3,911	NA
Intel Core i3-1000NG4 @ 1.10GHz	3,829	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	3,362	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	3,003	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	2,644	NA
Intel Celeron N4120 @ 1.10GHz	2,513	NA
AMD 3020e	2,451	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	1,731	$161.00*
Intel Celeron N4020C @ 1.10GHz	1,600	NA
Intel Celeron N4020 @ 1.10GHz	1,566	NA
Intel Celeron 5205U @ 1.90GHz	1,448	$107.00*
Intel Celeron N4000C @ 1.10GHz	1,379	NA
Intel Pentium A1020 @ 2.41GHz	1,290	NA
Intel Celeron 1020M @ 2.10GHz	1,275	NA
AMD R-272F APU	1,215	NA
Intel Pentium Dual T2390 @ 1.86GHz	745	NA

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

CPU Benchmarks

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