⌂ **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.

CPU Mark	Price Performance	Sorted by Date

PassMark - CPU Mark

Laptop & Portable CPU Performance

Updated 15th of November 2022

CPU	CPU Mark	Price (USD)
Intel Core i9-12900HX	34,637	$606.00*
Intel Core i7-12800HX	34,238	$457.00*
Intel Core i9-12950HX	31,937	$590.00*
Intel Core i7-12850HX	31,083	$428.00*
Intel Core i9-12900HK	29,092	$635.00*
Intel Core i9-12900H	28,778	$617.00*
Intel Core i7-12700H	26,771	$457.00*
AMD Ryzen 9 6900HX	25,056	NA
Intel Core i7-12650H	24,691	$457.00*

AMD Ryzen 7 6800H	**23,869**	NA
AMD Ryzen 9 PRO 6950HS	**23,705**	NA

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Intel Core i5-12600HX	**23,493**	$284.00*
Intel Core i9-11980HK @ 2.60GHz	**23,427**	$583.00*
AMD Ryzen 9 5980HX	**23,407**	NA
Intel Xeon W-11955M @ 2.60GHz	**23,304**	$623.00*
AMD Ryzen 9 PRO 6950H	**23,248**	NA
AMD Ryzen 7 6800HS Creator Edition	**22,984**	NA
AMD Ryzen 9 5900HX	**22,942**	NA
AMD Ryzen 7 6800HS	**22,862**	NA
Intel Core i5-12600H	**22,704**	$311.00*
AMD Ryzen 9 6900HS Creator Edition	**22,539**	NA
Apple M1 Max 10 Core 3200 MHz	**22,236**	NA
AMD Ryzen 9 5900HS	**22,116**	NA
Intel Core i9-11950H @ 2.60GHz	**22,070**	$556.00*
Apple M1 Pro 10 Core 3200 MHz	**22,017**	NA
Intel Core i5-12500H	**21,800**	$311.00*
AMD Ryzen 7 PRO 6860Z	**21,575**	NA
AMD Ryzen 9 5980HS	**21,400**	NA
AMD Ryzen 7 5800H	**21,336**	NA
Intel Core i7-11800H @ 2.30GHz	**21,119**	$395.00*
Intel Core i7-11850H @ 2.50GHz	**21,114**	$395.00*
Intel Core i9-11900H @ 2.50GHz	**21,024**	$546.00*
AMD Ryzen 9 5900H	**20,960**	NA
AMD Ryzen 7 PRO 6850U	**20,958**	NA
AMD Ryzen 7 5800HS Creator Edition	**20,948**	NA
Intel Core i7-12700TE	**20,712**	$344.00*
AMD Ryzen 7 5800HS	**20,616**	NA
AMD Ryzen 7 6800U	**20,595**	NA
AMD Ryzen 5 PRO 6650H	**20,103**	NA
Intel Core i7-1280P	**20,072**	$482.00*
AMD Ryzen 7 PRO 6850HS	**20,062**	NA
AMD Ryzen 9 4900HS	**19,321**	NA
AMD Ryzen 9 4900H	**19,211**	NA
AMD Ryzen 5 6600HS Creator Edition	**19,050**	NA
AMD Ryzen 7 4800H	**18,921**	NA
AMD Ryzen 5 6600H	**18,873**	NA
AMD Ryzen 7 5800U	**18,824**	NA
AMD Ryzen 7 4800HS	**18,772**	NA
Intel Xeon W-11855M @ 3.20GHz	**18,421**	$450.00*
Intel Core i5-1250P	**18,413**	NA
AMD Ryzen 7 Extreme Edition	**18,261**	NA
AMD Ryzen 7 5825U	**18,247**	NA
Intel Core i5-12450H	**18,089**	$311.00*
Intel Core i7-1270P	**17,822**	NA
Intel Core i5-1240P	**17,642**	NA

AMD Ryzen 7 PRO 5850U	**17,370**	NA
Apple M1 Pro 8 Core 3200 MHz	**17,233**	NA

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Intel Core i7-1260P	**17,036**	NA
AMD Ryzen 7 4800U	**17,020**	NA
Intel Core i5-12500TE	**16,865**	$205.00*
AMD Ryzen 7 PRO 5875U	**16,650**	NA
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	**16,257**	NA
Intel Core i5-11500H @ 2.90GHz	**16,204**	$250.00*
Intel Core i9-10980HK @ 2.40GHz	**16,042**	$583.00*
Intel Xeon W-10885M @ 2.40GHz	**16,025**	$623.00*
Intel Core i5-11400H @ 2.70GHz	**15,985**	$250.00*
AMD Ryzen 7 4850U Mobile	**15,920**	NA
Intel Core i7-11600H @ 2.90GHz	**15,907**	$395.00*
AMD Ryzen 7 5700U	**15,862**	NA
Intel Core i5-11260H @ 2.60GHz	**15,724**	$250.00*
Intel Core i9-10885H @ 2.40GHz	**15,505**	$556.00*
Apple M2 8 Core 3500 MHz	**15,408**	NA
AMD Ryzen 7 PRO 4750U	**15,338**	NA
Intel Core i7-10875H @ 2.30GHz	**15,322**	$450.00*
Intel Core i3-1220P	**15,310**	$281.00*
AMD Ryzen 5 5600U	**15,300**	NA
AMD Ryzen 5 5560U	**15,287**	NA
AMD Ryzen 5 PRO 5650U	**15,107**	NA
Intel Core i7-10870H @ 2.20GHz	**14,840**	$417.00*
AMD Ryzen 5 PRO 4400GE	**14,795**	NA
Intel Core i9-10880H @ 2.30GHz	**14,736**	NA
AMD Ryzen 5 4600H	**14,676**	NA
AMD Ryzen 5 5625U	**14,658**	NA
AMD Ryzen 5 4600HS	**14,583**	NA
AMD Ryzen 5 PRO 5675U	**14,496**	NA
Apple M1 8 Core 3200 MHz	**14,368**	NA
Intel Core i5-1240U	**14,323**	NA
Intel Core i7-1255U	**13,556**	$426.00*
AMD Ryzen 7 4700U	**13,527**	NA
Intel Core i7-1265U	**13,508**	$426.00*
AMD Ryzen 5 4600U	**13,452**	NA
Intel Core i5-1235U	**13,446**	$309.00*
AMD Ryzen 5 5500U	**13,168**	NA
Intel Core i7-1250U	**13,081**	$426.00*
Intel Core i7-1260U	**13,024**	NA
Intel Core i3-12100TE	**12,961**	$125.00*
Intel Xeon W-10855M @ 2.80GHz	**12,908**	$450.00*
AMD Ryzen 5 PRO 4650U	**12,817**	NA
Intel Core i7-11375H @ 3.30GHz	**12,248**	$482.00*

Intel Core i7-10850H @ 2.70GHz	12,080	$395.00*
AMD Ryzen 5 PRO 4500U	12,049	NA
Snapdragon 8cx Gen 3 @ 3.0 GHz	11,783	NA
Intel Core i5-10500H @ 2.50GHz	11,558	$250.00*
AMD Ryzen 3 5425U	11,544	NA
Intel Core i3-1215U	11,374	NA
AMD Ryzen 3 PRO 5475U	11,339	NA
Intel Core i7-9750HF @ 2.60GHz	11,132	$395.00*
Intel Core i5-11300H @ 3.10GHz	11,105	$309.00*
AMD Ryzen 3 PRO 5450U	11,064	NA
AMD Ryzen 5 4500U	11,050	NA
Intel Core i5-11320H @ 3.20GHz	11,043	$309.00*
Intel Core i7-1195G7 @ 2.90GHz	10,960	$426.00*
AMD Ryzen 3 PRO 4200GE	10,930	NA
Intel Core i7-9700TE @ 1.80GHz	10,740	$323.00*
Intel Core i7-1185G7 @ 3.00GHz	10,736	$426.00*
AMD Ryzen 3 5400U	10,617	NA
Intel Core i5-1230U	10,583	$309.00*
Intel Core i7-1165G7 @ 2.80GHz	10,489	$426.00*
Intel Core i7-11390H @ 3.40GHz	10,483	$426.00*
Intel Core i5-1145G7 @ 2.60GHz	10,147	NA
Intel Core i5-1155G7 @ 2.50GHz	10,059	$309.00*
AMD Ryzen 3 PRO 4450U	10,046	NA
Intel Core i5-1135G7 @ 2.40GHz	10,030	$309.00*
Intel Core i7-1185G7E @ 2.80GHz	9,980	$431.00*
Intel Core i5-10500TE @ 2.30GHz	9,960	$195.00*
AMD Ryzen 3 5300U	9,929	NA
Intel Core i3-1125G4 @ 2.00GHz	9,921	NA
Intel Core i7-1068NG7 @ 2.30GHz	9,903	$426.00*
Intel Core i5-1038NG7 @ 2.00GHz	9,515	$320.00*
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	8,880	$250.00*
Intel Core i5-10300H @ 2.50GHz	8,644	$250.00*
Intel Core i5-10200H @ 2.40GHz	8,364	$250.00*
Intel Core i7-8569U @ 2.80GHz	8,327	$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

CPU Benchmarks ▼

Intel Core i7-10610U @ 1.80GHz	6,989	$409.00*
Intel Core i7-1060NG7 @ 1.20GHz	6,945	NA

⌂ **CPU Benchmarks** ▼

Intel Pentium Gold 8505	6,670	NA
Intel Core i5-10310U @ 1.70GHz	6,515	$297.00*
Snapdragon 8cx Gen 2 @ 3.0 GHz	6,448	NA
Intel Core i3-1115G4 @ 3.00GHz	6,228	$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
Intel Core i5-7440EQ @ 2.90GHz	5,711	$250.00*
Intel Pentium Silver N6005 @ 2.00GHz	5,360	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 i7-8665UE @ 1.70GHz	5,017	$409.00*
Intel Core i7-10510Y @ 1.20GHz	5,016	$403.00*
Intel Core i5-10210Y @ 1.00GHz	4,964	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	3,917	NA
Intel Core i3-1000NG4 @ 1.10GHz	3,826	NA
Snapdragon 7c @ 1.96 GHz	3,628	NA
Snapdragon 7c Gen 2 @ 2.55 GHz	3,457	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	3,341	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	3,020	NA
AMD Athlon Silver 3050e	2,949	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	2,499	NA
AMD 3020e	2,451	NA

Intel Celeron 4305UE @ 2.00GHz	**1,876**	NA
Snapdragon 835	1,784	NA

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Intel Celeron N4020C @ 1.10GHz	**1,600**	NA
Intel Celeron N4020 @ 1.10GHz	**1,562**	NA
Intel Celeron 5205U @ 1.90GHz	**1,448**	$107.00*
Intel Celeron N4000C @ 1.10GHz	**1,360**	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	**669**	NA
AMD E2-7015	**572**	NA

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