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

🏠 **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
  Top Gaming CPUs

🔍 **CPU Mega List**

  Search Model

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PassMark - CPU Mark

Laptop & Portable CPU Performance

Updated 28th of June 2023

CPU	CPU Mark	Price (USD)
AMD Ryzen 9 7945HX	58,039	NA
Intel Core i9-13980HX	48,790	$668.00*
AMD Ryzen 9 7845HX	46,565	NA
Intel Core i9-13950HX	45,802	$590.00*
Intel Core i9-13900HX	45,393	$668.00*
Intel Core i7-13850HX	38,546	$428.00*
Intel Core i9-12900HX	35,083	$606.00*
Intel Core i7-13700HX	35,021	$485.00*
AMD Ryzen 7 7745HX	34,281	NA
Intel Core i7-12800HX	33,451	$457.00*
Intel Core i9-12950HX	32,973	$590.00*
Intel Core i7-13650HX	32,798	$485.00*
AMD Ryzen 9 7940H	32,499	NA
AMD Ryzen 9 7940HS	31,681	NA
AMD Ryzen 7 7840HS	31,230	NA
Intel Core i9-13900HK	31,068	$697.00*
Intel Core i9-13900H	30,842	$617.00*
Intel Core i7-12850HX	30,468	$428.00*
Intel Core i7-13705H	30,020	$502.00*
Intel Core i5-13600HX	29,716	$284.00*
Intel Core i7-13700H	29,462	$502.00*
Intel Core i5-13500HX	29,082	$326.00*
Intel Core i9-12900H	28,882	$617.00*
Intel Core i9-12900HK	28,487	$635.00*
Intel Core i7-13620H	27,313	$502.00*

CPU	Score	Price
Intel Core i7-13800H	27,083	$457.00*
Intel Core i5-13450HX	26,936	$326.00*
Apple M2 Max 12 Core 3680 MHz	26,229	NA
Intel Core i5-13600H	25,776	$311.00*
AMD Ryzen 7 PRO 7840HS	25,046	NA
Intel Core i7-12800H	24,998	$457.00*
AMD Ryzen 9 6900HX	24,953	NA
Intel Core i5-12600HX	24,470	$284.00*
AMD Ryzen 7 7735HS	24,410	NA
AMD Ryzen 7 7735H	24,403	NA
Intel Core i7-12650H	24,031	$457.00*
AMD Ryzen 9 6900HS	24,024	NA
Intel Core i5-13500H	23,930	NA
AMD Ryzen 7 7736U	23,860	NA
AMD Ryzen 7 6800H	23,806	NA
AMD Ryzen 9 5980HX	23,705	NA
AMD Ryzen 9 PRO 6950HS	23,295	NA
AMD Ryzen 7 PRO 6850H	23,204	NA
Intel Core i9-11980HK @ 2.60GHz	23,087	$583.00*
AMD Ryzen 7 6800HS	23,051	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	22,827	NA
AMD Ryzen 9 5900HX	22,821	NA
AMD Ryzen 9 PRO 6950H	22,638	NA
Intel Core i7-1370P	22,597	NA
AMD Ryzen 9 6900HS Creator Edition	22,574	NA
Intel Core i5-1350P	22,544	$320.00*
Apple M1 Max 10 Core 3200 MHz	22,101	NA
AMD Ryzen 7 PRO 6850HS	22,044	NA
AMD Ryzen 9 5900HS	21,977	NA
Apple M1 Pro 10 Core 3200 MHz	21,886	NA
Apple M2 Pro 10 Core 3480 MHz	21,703	NA
Intel Core i9-11950H @ 2.60GHz	21,592	$556.00*
Intel Core i5-12500H	21,568	$311.00*
AMD Ryzen 7 5800H	21,259	NA
AMD Ryzen 7 5800HS Creator Edition	21,166	NA
AMD Ryzen 7 7735U	21,100	NA
Intel Core i9-11900H @ 2.50GHz	21,074	$546.00*
AMD Ryzen 9 5980HS	21,058	NA
AMD Ryzen 7 PRO 6860Z	20,994	NA
Intel Core i5-1340P	20,974	$353.00*
AMD Ryzen 9 5900H	20,960	NA
AMD Ryzen 7 PRO 6850U	20,952	NA
Intel Core i7-11800H @ 2.30GHz	20,896	$395.00*
Intel Core i5-1250P	20,838	NA
Intel Core i7-11850H @ 2.50GHz	20,833	$395.00*
AMD Ryzen 7 6800U	20,653	NA
AMD Ryzen 7 5800HS	20,500	NA
Intel Core i7-1280P	20,381	$482.00*
AMD Ryzen 5 PRO 6650H	20,103	NA
AMD Ryzen 5 7540U	20,083	NA

CPU	Benchmark	Price
AMD Ryzen 5 7535HS	19,924	NA
Intel Core i7-1360P	19,702	$480.00*

CPU	Benchmark	Price
AMD Ryzen 5 6600H	19,116	NA
Intel Core i5-1335U	19,068	$340.00*
AMD Ryzen 5 6600HS Creator Edition	18,942	NA
AMD Ryzen 7 5800U	18,689	NA
AMD Ryzen 7 5825U	18,546	NA
Intel Xeon W-11855M @ 3.20GHz	18,324	$450.00*
AMD Ryzen 7 Extreme Edition	18,185	NA
Intel Core i5-12450H	17,868	$311.00*
Intel Core i7-1270P	17,706	NA
Intel Core i5-1240P	17,530	NA
AMD Ryzen 5 7535U	17,495	NA
AMD Ryzen 7 4980U Microsoft Surface Edition	17,469	NA
Intel Core i7-1260P	17,393	NA
AMD Ryzen 7 PRO 5850U	17,375	NA
AMD Ryzen 5 PRO 7530U	17,275	NA
AMD Ryzen 5 6600U	17,256	NA
Apple M1 Pro 8 Core 3200 MHz	17,176	NA
AMD Ryzen 5 5600H	17,157	NA
AMD Ryzen 5 PRO 6650U	16,680	NA
AMD Ryzen 7 PRO 5875U	16,520	NA
AMD Ryzen 5 7530U	16,458	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 i5-11500H @ 2.90GHz	16,011	$250.00*
Intel Core i5-11400H @ 2.70GHz	15,932	$250.00*
AMD Ryzen 7 4850U Mobile	15,920	NA
Intel Core i7-11600H @ 2.90GHz	15,919	$395.00*
AMD Ryzen 7 5700U	15,850	NA
Intel Core i5-11260H @ 2.60GHz	15,751	$250.00*
Intel Core i7-1355U	15,711	$469.00*
Intel Core i5-1345U	15,667	$309.00*
Intel Core i7-12700TE	15,616	$344.00*
AMD Ryzen 5 5600U	15,476	NA
Apple M2 8 Core 3500 MHz	15,378	NA
Intel Core i9-10885H @ 2.40GHz	15,313	$556.00*
Intel Core i7-1365U	15,306	$426.00*
AMD Ryzen 5 5560U	15,230	NA
AMD Ryzen 5 5625U	15,131	NA
AMD Ryzen 5 PRO 5650U	15,094	NA
AMD Ryzen 5 PRO 4400GE	14,795	NA
AMD Ryzen 5 PRO 5675U	14,782	NA
Intel Core i7-10870H @ 2.20GHz	14,753	$417.00*
Intel Core i9-10880H @ 2.30GHz	14,736	NA
Intel Core i3-1220P	14,571	$281.00*
Intel Core i5-1240U	14,323	NA
AMD Ryzen 5 4600HS	14,298	NA
Apple M1 8 Core 3200 MHz	14,116	NA
Intel Core i7-1265U	14,104	$426.00*
Intel Core i7-1255U	13,942	$426.00*

Intel Core i3-1315U	**13,653**	$309.00*
Intel Core i5-1235U	**13,630**	$309.00*

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	**12,795**	$426.00*
Intel Core i7-11375H @ 3.30GHz	**12,190**	$482.00*
Intel Core i7-11370H @ 3.30GHz	**11,818**	$426.00*
Snapdragon 8cx Gen 3 @ 3.0 GHz	**11,765**	NA
AMD Ryzen 3 5425U	**11,586**	NA
AMD Ryzen 3 5400U	**11,540**	NA
Intel Core i5-10500H @ 2.50GHz	**11,442**	$250.00*
AMD Ryzen 3 PRO 5475U	**11,272**	NA
Intel Core i3-1215U	**11,203**	NA
Intel Core i3-1210U	**11,087**	NA
Intel Core i7-1195G7 @ 2.90GHz	**11,077**	$426.00*
Intel Core i5-11320H @ 3.20GHz	**11,070**	$309.00*
AMD Ryzen 3 PRO 5450U	**11,002**	NA
Intel Core i5-11300H @ 3.10GHz	**10,998**	$309.00*
AMD Ryzen 3 PRO 4200GE	**10,930**	NA
AMD Ryzen 3 7330U	**10,735**	NA
Intel Core i7-1185G7 @ 3.00GHz	**10,611**	$426.00*
Intel Core i7-1265UE	**10,573**	$472.00*
Intel Core i5-1230U	**10,505**	$309.00*
Intel Core i7-11390H @ 3.40GHz	**10,470**	$426.00*
Intel Core i7-1185G7E @ 2.80GHz	**10,444**	$431.00*
Intel Core i7-1165G7 @ 2.80GHz	**10,392**	$426.00*
Intel Core i5-1334U	**10,366**	$340.00*
Intel Core i3-N305	**10,330**	$309.00*
Intel Core i5-1155G7 @ 2.50GHz	**10,317**	$309.00*
AMD Ryzen 3 PRO 4450U	**10,092**	NA
Intel Core i5-1145G7 @ 2.60GHz	**10,010**	NA
Intel Core i5-1135G7 @ 2.40GHz	**9,949**	$309.00*
Intel Core i3-1125G4 @ 2.00GHz	**9,863**	NA
AMD Ryzen 5 7520U	**9,802**	NA
AMD Ryzen 3 5300U	**9,777**	NA
Intel Core i3-1305U	**9,405**	$309.00*
AMD Ryzen 3 7320U	**9,258**	NA
Intel Core i7-1160G7 @ 1.20GHz	**9,183**	$426.00*
Intel Pentium Gold 8505	**9,024**	NA
Intel Core i5-1130G7 @ 1.10GHz	**8,824**	$309.00*
Intel Core i5-10400H @ 2.60GHz	**8,622**	$250.00*
Intel Core i7-1180G7 @ 1.30GHz	**8,520**	$426.00*
Intel Core i5-10500TE @ 2.30GHz	**8,449**	$195.00*
Intel Core i5-10200H @ 2.40GHz	**8,292**	$250.00*
AMD Athlon Gold PRO 4150GE	**8,259**	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
Snapdragon 8cx Gen 2 @ 3.0 GHz	**6,770**	NA
AMD Ryzen 5 3450U	**6,756**	NA
Snapdragon 8cx Gen 2 @ 3.15 GHz	**6,511**	NA

CPU	Score	Price
Intel Core i3-1115G4 @ 3.00GHz	6,173	$281.00*
AMD Ryzen 3 3350U	5,870	NA

CPU Benchmarks   Video Card Benchmarks   Hard Drive Benchmarks   RAM   PC Systems   Android   iOS / iPhone

CPU	Score	Price
Intel N95	5,484	NA
Intel Pentium Silver N6005 @ 2.00GHz	5,399	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
AMD Athlon Gold 3150U	4,033	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	3,362	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
AMD 3015e	2,689	NA
AMD Athlon Silver 7120U	2,558	NA
Intel Celeron 7305	2,189	$107.00*
Intel Celeron 6305 @ 1.80GHz	2,075	NA
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

CPU Benchmarks   Video Card Benchmarks   Hard Drive Benchmarks   RAM   PC Systems   Android   iOS / iPhone

CPU Benchmarks   Video Card Benchmarks   Hard Drive Benchmarks   RAM   PC Systems   Android   iOS / iPhone