

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 by Socket Type

Cross-Platform CPU Performance

CPU Mark	Price Performance	Sorted by Date
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PassMark - CPU Mark

Laptop & Portable CPU Performance

Updated 12th of August 2020

CPU	CPU Mark	Price (USD)
AMD Ryzen 9 4900HS	19,809	NA
AMD Ryzen 9 4900H	19,643	NA
AMD Ryzen 7 4800H	19,364	NA
AMD Ryzen 7 4800HS	18,971	NA
AMD Ryzen 7 Extreme Edition	18,378	NA
AMD Ryzen 7 4800U	17,582	NA
Intel Xeon W-10885M @ 2.40GHz	17,094	\$623.00*
Intel Core i9-10980HK @ 2.40GHz	17,045	\$583.00*
Intel Core i9-10885H @ 2.40GHz	16,476	\$556.00*
Intel Core i7-10875H @ 2.30GHz	15,823	\$450.00*
AMD Ryzen 7 PRO 4750U	15,786	NA
Intel Xeon E-2286M @ 2.40GHz	15,685	\$623.00*
Intel Core i9-9980HK @ 2.40GHz	15,619	\$583.00*
AMD Ryzen 5 4600H	15,049	NA
AMD Ryzen 5 4600U	14,720	NA
AMD Ryzen 5 4600HS	14,171	NA
Intel Core i9-9880H @ 2.30GHz	14,135	\$556.00*
Intel Core i9-10880H @ 2.30GHz	13,973	NA


 CPU Mega List

 CPU Benchmarks 

 Compare ⁰

 Common

Most Benchmarked

 AMD vs Intel Market Share

Year on Year Performance

Intel Xeon W-10855M @ 2.80GHz	13,964	\$450.00*
AMD Rvzen 7 4700U	13,832	NA
Intel Core i7-1165G7 @ 2.80GHz	13,372	NA
Intel Core i7-10750H @ 2.60GHz	12,681	NA
Intel Core i7-10850H @ 2.70GHz	12,494	\$395.00*
Intel Xeon E-2276M @ 2.80GHz	12,370	\$450.00*
AMD Ryzen 5 PRO 4500U	12,049	NA
Intel Core i7-9750HF @ 2.60GHz	12,016	\$395.00*
Intel Core i7-8700B @ 3.20GHz	11,992	\$303.00*
Intel Core i7-9850H @ 2.60GHz	11,483	\$395.00*
Intel Xeon E-2186M @ 2.90GHz	11,436	\$623.00*
Intel Core i7-9750H @ 2.60GHz	11,411	\$395.00*
AMD Ryzen 5 4500U	11,212	NA
Intel Core i9-8950HK @ 2.90GHz	11,120	\$583.00*
Intel Core i7-1068NG7 @ 2.30GHz	10,839	\$426.00*
Intel Xeon E-2176M @ 2.70GHz	10,687	\$450.00*
Intel Core i7-9700TE @ 1.80GHz	10,680	\$323.00*
Intel Core i7-8850H @ 2.60GHz	10,524	\$395.00*
Intel Core i7-8750H @ 2.20GHz	10,218	\$395.00*
Intel Core i5-1038NG7 @ 2.00GHz	10,008	\$320.00*
Intel Core i7-10710U @ 1.10GHz	9,981	\$592.80
AMD Ryzen 3 PRO 4450U	9,905	NA
Intel Core i5-9400F @ 2.90GHz	9,610	\$151.94
Intel Core i5-8500B @ 3.00GHz	9,538	\$192.00*
Intel Core i7-8569U @ 2.80GHz	9,251	\$431.00*
Intel Core i5-9500TE @ 2.20GHz	9,212	\$192.00*
Intel Core i7-9850HL @ 1.90GHz	9,112	\$395.00*
Intel Core i7-1065G7 @ 1.30GHz	8,981	NA
Intel Core i5-10300H @ 2.50GHz	8,946	\$250.00*
Intel Core i5-10400H @ 2.60GHz	8,939	\$250.00*
Intel Core i7-8559U @ 2.70GHz	8,846	\$561.99
Intel Core i7-8809G @ 3.10GHz	8,752	NA
Intel Core i5-1035G7 @ 1.20GHz	8,601	\$320.00*
AMD Ryzen 7 3750H	8,486	NA
Intel Core i5-8259U @ 2.30GHz	8,382	\$589.99
Intel Core i5-9400H @ 2.50GHz	8,337	\$250.00*
Intel Core i5-8257U @ 1.40GHz	8,191	\$320.00*
Intel Core i5-1035G4 @ 1.10GHz	8,189	\$309.00*
AMD Ryzen 5 3550H	8,171	NA
Intel Core i7-8706G @ 3.10GHz	8,136	NA
Intel Core i7-10810U @ 1.10GHz	8,119	\$443.00*
Intel Core i5-8400H @ 2.50GHz	8,105	\$250.00*
AMD Ryzen Embedded V1807B	8,095	NA
AMD Ryzen 5 3580U	8,065	NA
Intel Core i5-9300H @ 2.40GHz	8,054	\$250.00*
Intel Core i5-1035G1 @ 1.00GHz	8,010	\$297.00*

 CPU Benchmarks ▼

Intel Core i7-1185G7 @ 3.00GHz	7,979	NA
Intel Core i5-8279U @ 2.40GHz	7,917	\$320.00*
AMD Ryzen 3 4300U	7,895	NA
Intel Core i7-8557U @ 1.70GHz	7,820	\$431.00*
Intel Core i7-8709G @ 3.10GHz	7,779	NA
Intel Core i5-9300HF @ 2.40GHz	7,776	\$250.00*
Intel Core i5-8260U @ 1.60GHz	7,776	\$297.00*
AMD Ryzen 7 2800H	7,656	NA
Intel Core i7-10610U @ 1.80GHz	7,589	\$409.00*
Intel Core i3-10100T @ 3.00GHz	7,589	\$122.00*
Intel Core i5-8300H @ 2.30GHz	7,577	\$250.00*
AMD Ryzen 5 2600H	7,537	NA
AMD Ryzen 7 3700U	7,425	NA
AMD Ryzen 7 PRO 2700U	7,378	NA
AMD Ryzen 7 PRO 3700U	7,361	NA
AMD Ryzen 3 PRO 3200GE	7,295	NA
Intel Core i5-8305G @ 2.80GHz	7,231	NA
AMD Ryzen 7 3780U	7,203	NA
AMD Ryzen 5 3500U	7,140	NA
Intel Core i7-10510U @ 1.80GHz	7,098	\$409.00*
Intel Core i7-7820EQ @ 3.00GHz	7,059	\$378.00*
AMD Ryzen 5 PRO 3500U	7,048	NA
Intel Core i7-5850EQ @ 2.70GHz	7,036	\$435.00*
AMD Ryzen Embedded V1605B	6,857	NA
Intel Core i3-8100B @ 3.60GHz	6,829	\$133.00*
Intel Core i5-10310U @ 1.70GHz	6,768	\$297.00*
Intel Core i7-8665U @ 1.90GHz	6,708	\$409.00*
AMD Ryzen 5 2500U	6,647	NA
Intel Core i7-8650U @ 1.90GHz	6,615	\$1,049.00*
Intel Core i7-8565U @ 1.80GHz	6,608	NA
Intel Xeon E3-1268L v5 @ 2.40GHz	6,600	\$456.54*
Intel Core i7-8665UE @ 1.70GHz	6,587	\$409.00*
AMD Ryzen 7 2700U	6,522	NA
Intel Core i5-10210U @ 1.60GHz	6,485	\$554.95
Intel Core i5-8365U @ 1.60GHz	6,440	\$649.99
Intel Core i5-8350U @ 1.70GHz	6,417	\$297.00*
AMD Ryzen 5 PRO 2500U	6,354	NA
Intel Core i5-8265U @ 1.60GHz	6,302	\$297.00*
Intel Core i7-1060NG7 @ 1.20GHz	6,234	NA
Intel Core i7-8565UC @ 1.80GHz	6,187	NA
Intel Core i7-8550U @ 1.80GHz	6,015	NA
AMD Ryzen 3 PRO 3300U	6,007	NA
Intel Core i5-8265UC @ 1.60GHz	5,988	NA
AMD Ryzen 3 PRO 2300U	5,873	NA
AMD Ryzen 3 3300U	5,743	NA
Intel Core i7-10510Y @ 1.20GHz	5,523	\$403.00*

 CPU Benchmarks ▼

Intel Core i5-1030NG7 @ 1.10GHz	5,396	NA
AMD Rvzen 3 2300U	5,301	NA
Intel Core i5-8365UE @ 1.60GHz	5,243	\$297.00*
Intel Core i5-10210Y @ 1.00GHz	4,895	NA
Intel Core i5-7442EQ @ 2.10GHz	4,834	\$250.00*
Intel Core i5-6442EQ @ 1.90GHz	4,519	\$250.00*
AMD Athlon 220GE	4,509	\$65.96
AMD Ryzen 3 3250U	4,413	NA
Intel Core i3-8109U @ 3.00GHz	4,376	\$479.99
Intel Core i3-8121U @ 2.20GHz	4,281	\$399.00
AMD Ryzen Embedded R1505G	4,280	NA
AMD Ryzen 3 3200U	4,217	NA
Intel Core i3-10110U @ 2.10GHz	4,199	\$442.00
AMD Athlon Gold 3150U	4,171	NA
Intel Core i5-7287U @ 3.30GHz	4,149	NA
Intel Core i3-1000NG4 @ 1.10GHz	4,035	NA
AMD Athlon 300U	4,032	NA
AMD Ryzen Embedded V1202B	3,734	NA
Intel Core i3-8145U @ 2.10GHz	3,704	\$281.00*
Intel Core i3-10110Y @ 1.00GHz	3,639	\$287.00*
AMD A8-7680	3,599	\$59.99*
Intel Core i3-8130U @ 2.20GHz	3,596	\$281.00*
AMD Ryzen 3 2200U	3,596	NA
Intel Core i3-7167U @ 2.80GHz	3,489	NA
Intel Core i3-7100H @ 3.00GHz	3,460	\$225.00*
AMD Embedded R-Series RX-418GD Radeon R6	3,426	NA
Intel Core i5-6287U @ 3.10GHz	3,378	\$304.00*
AMD Athlon Silver 3050U	3,240	NA
Intel Core i5-8200Y @ 1.30GHz	3,161	\$291.00*
Intel Core i7-8500Y @ 1.50GHz	3,136	\$393.00*
Intel Core i5-L16G7 @ 1.40GHz	3,049	\$281.00*
Intel Core m3-8100Y @ 1.10GHz	3,034	\$281.00*
Intel Core i5-8210Y @ 1.60GHz	2,905	NA
Intel Core i3-7130U @ 2.70GHz	2,880	\$459.99*
AMD 3020e	2,727	NA
AMD A6-9400	2,717	NA
AMD 3015e	2,678	NA
Intel Pentium Silver N5000 @ 1.10GHz	2,662	\$161.00*
AMD PRO A10-9700B	2,626	NA
Intel Pentium Silver N5030 @ 1.10GHz	2,592	NA
Intel Core i3-7020U @ 2.30GHz	2,540	\$281.00*
Intel Core i3-7102E @ 2.10GHz	2,521	\$225.00*
Intel Celeron N4100 @ 1.10GHz	2,476	\$107.00*
Intel Pentium 6405U @ 2.40GHz	2,430	\$161.00*
AMD PRO A12-8830B	2,392	NA

 CPU Benchmarks ▼

Intel Celeron N4120 @ 1.10GHz	2,357	NA
Intel Core i3-6102E @ 1.90GHz	2,349	\$225.00*
Intel Pentium 4417U @ 2.30GHz	2,282	\$161.00*
Intel Pentium G4400TE @ 2.40GHz	2,190	\$64.00*
Intel Celeron G3900TE @ 2.30GHz	1,967	\$42.00*
Intel Celeron 4305UE @ 2.00GHz	1,950	NA
Intel Atom E3940 @ 1.60GHz	1,940	NA
Intel Core i5-4422E @ 1.80GHz	1,907	\$266.00*
Intel Core i5-4230U @ 1.90GHz	1,853	NA
AMD GX-420MC SOC	1,796	NA
Intel Celeron 3965U @ 2.20GHz	1,786	\$107.00*
Intel Celeron N4020 @ 1.10GHz	1,719	NA
AMD PRO A6-7350B	1,679	NA
Intel Pentium 4415Y @ 1.60GHz	1,647	\$161.00*
AMD A9-9425	1,583	NA
Intel Celeron N4000C @ 1.10GHz	1,559	NA
AMD Embedded G-Series GX-420GI Radeon R7E	1,527	NA
Intel Celeron N4000 @ 1.10GHz	1,481	\$107.00*
Intel Pentium 4425Y @ 1.70GHz	1,458	\$161.00*
Intel Celeron 3867U @ 1.80GHz	1,455	\$107.00*
Intel Celeron 5205U @ 1.90GHz	1,451	\$107.00*
AMD A6-9220	1,397	NA
Intel Pentium 4410Y @ 1.50GHz	1,387	\$161.00*
Intel Atom C2538 @ 2.40GHz	1,356	\$104.00*
AMD A6-9225	1,335	NA
Intel Atom T5700 @ 1.70GHz	1,326	NA
AMD A4-9125	1,278	NA
Intel Celeron 1020M @ 2.10GHz	1,275	NA
AMD Embedded G-Series GX-224IJ Radeon R4E	1,271	NA
Intel Pentium A1020 @ 2.41GHz	1,265	NA
AMD A4-9120	1,255	NA
AMD A6-9220C	1,254	NA
Intel Celeron 4205U @ 1.80GHz	1,251	\$107.00*
Intel Celeron 3965Y @ 1.50GHz	1,220	\$107.00*
AMD R-272F APU	1,215	NA
AMD A9-9420e	1,171	NA
Intel Celeron 2002E @ 1.50GHz	1,091	\$86.00*
AMD A6-9200	1,076	NA
AMD Embedded G-Series GX-215JJ Radeon R2E	1,071	NA
AMD PRO A4-4350B	1,064	NA
AMD A6-9220e	1,016	NA
AMD A4-9120C	937	NA
AMD A4-9120e	793	NA
AMD G-T40R	120	NA
VIA Eden 1000MHz	80	NA

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