

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 Mega List

Search Model

Compare

Common

Most Benchmarked

AMD vs Intel Market Share

Year on Year Performance

CPU Mark

Price Performance

Sorted by Date

PassMark - CPU Mark

Laptop & Portable CPU Performance

Updated 25th of May 2021

CPU	CPU Mark	Price (USD)
AMD Ryzen 9 5900HX	<div></div> 23,788	NA
Intel Core i7-11850H @ 2.50GHz	<div></div> 23,609	\$395.00*
AMD Ryzen 9 5980HS	<div></div> 23,078	NA
AMD Ryzen 9 5900HS	<div></div> 23,009	NA
AMD Ryzen 7 5800H	<div></div> 22,015	NA
AMD Ryzen 7 5800HS	<div></div> 21,562	NA
AMD Ryzen 7 PRO 5850U	<div></div> 20,460	NA
AMD Ryzen 7 5800U	<div></div> 19,997	NA
AMD Ryzen 9 4900HS	<div></div> 19,699	NA
AMD Ryzen 7 4800H	<div></div> 19,216	NA
AMD Ryzen 7 4800HS	<div></div> 19,042	NA
AMD Ryzen 9 4900H	<div></div> 19,028	NA
AMD Ryzen 5 5600H	<div></div> 18,309	NA
AMD Ryzen 7 Extreme Edition	<div></div> 18,187	NA
AMD Ryzen 7 4800U	<div></div> 17,340	NA
Intel Xeon W-10885M @ 2.40GHz	<div></div> 17,160	\$623.00*
AMD Ryzen 5 PRO 5650U	<div></div> 16,934	NA
Intel Core i9-10980HK @ 2.40GHz	<div></div> 16,606	\$583.00*
Intel Core i7-10700TE @ 2.00GHz	<div></div> 16,332	\$330.00*
Intel Core i9-10885H @ 2.40GHz	<div></div> 16,176	\$556.00*
AMD Ryzen 7 5700U	<div></div> 16,103	NA
AMD Ryzen 5 5600U	<div></div> 16,080	NA
Intel Core i7-10875H @ 2.30GHz	<div></div> 15,820	\$450.00*
Intel Xeon E-2286M @ 2.40GHz	<div></div> 15,756	\$1,373.18*
AMD Ryzen 7 PRO 4750U	<div></div> 15,583	NA
Intel Core i7-10870H @ 2.20GHz	<div></div> 15,524	\$417.00*
Intel Core i9-10880H @ 2.30GHz	<div></div> 15,390	NA
Intel Core i9-9980HK @ 2.40GHz	<div></div> 15,096	\$583.00*
Apple M1 8 Core 3200 MHz	<div></div> 15,090	NA
AMD Ryzen 5 4600H	<div></div> 14,824	NA
AMD Ryzen 5 PRO 4400GE	<div></div> 14,795	NA
AMD Ryzen 5 4600HS	<div></div> 14,593	NA
Intel Core i9-9880H @ 2.30GHz	<div></div> 13,968	\$556.00*
AMD Ryzen 7 4700U	<div></div> 13,793	NA

AMD Ryzen 5 4600U		13,757	NA
AMD Ryzen 5 5500U		13,715	NA

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AMD Ryzen 5 PRO 4650U		12,981	NA
Intel Core i7-11370H @ 3.30GHz		12,886	\$426.00*
Intel Core i7-8700B @ 3.20GHz		12,650	\$303.00*
Intel Core i7-10750H @ 2.60GHz		12,578	NA
Intel Core i7-10850H @ 2.70GHz		12,556	\$395.00*
Intel Core i5-10500H @ 2.50GHz		12,369	\$250.00*
Intel Xeon E-2276M @ 2.80GHz		12,252	\$450.00*
AMD Ryzen 3 5400U		12,129	NA
AMD Ryzen 5 PRO 4500U		12,049	NA
Intel Core i7-1185G7E @ 2.80GHz		11,645	\$431.00*
Intel Core i7-9750HF @ 2.60GHz		11,617	\$395.00*
Intel Core i7-9850H @ 2.60GHz		11,597	\$1,305.76*
Intel Core i7-9750H @ 2.60GHz		11,321	\$960.00
Intel Core i7-1185G7 @ 3.00GHz		11,256	\$426.00*
AMD Ryzen 5 4500U		11,251	NA
Intel Core i5-11300H @ 3.10GHz		11,095	\$309.00*
AMD Ryzen 3 PRO 4200GE		11,006	NA
Intel Core i7-1160G7 @ 1.20GHz		10,981	\$426.00*
Intel Core i7-9700TE @ 1.80GHz		10,722	\$323.00*
Intel Core i5-1145G7 @ 2.60GHz		10,676	NA
AMD Ryzen 3 5300U		10,642	NA
Intel Core i7-1165G7 @ 2.80GHz		10,591	\$426.00*
Intel Core i5-1130G7 @ 1.10GHz		10,483	\$309.00*
Intel Core i7-1068NG7 @ 2.30GHz		10,335	\$426.00*
Intel Core i7-10710U @ 1.10GHz		10,101	\$644.99
AMD Ryzen 3 PRO 4450U		10,097	NA
Intel Core i5-1135G7 @ 2.40GHz		10,085	\$309.00*
Intel Core i5-1038NG7 @ 2.00GHz		9,693	\$320.00*
Intel Core i5-8500B @ 3.00GHz		9,551	\$192.00*
Intel Core i5-9400F @ 2.90GHz		9,541	\$167.77
Intel Core i7-8569U @ 2.80GHz		9,251	\$431.00*
Intel Core i5-9500TE @ 2.20GHz		9,212	\$192.00*
Intel Core i7-10810U @ 1.10GHz		9,121	\$443.00*
Intel Core i7-9850HL @ 1.90GHz		9,112	\$395.00*
Intel Core i5-10400H @ 2.60GHz		9,008	\$250.00*
Intel Core i3-1125G4 @ 2.00GHz		8,996	NA
Intel Core i7-8559U @ 2.70GHz		8,873	\$617.00*
Intel Core i7-1065G7 @ 1.30GHz		8,861	\$426.00*
Intel Core i5-10300H @ 2.50GHz		8,780	\$250.00*
Intel Core i5-10200H @ 2.40GHz		8,515	\$250.00*
Intel Core i7-8557U @ 1.70GHz		8,429	\$431.00*
Intel Core i5-1035G7 @ 1.20GHz		8,407	\$320.00*
AMD Ryzen 7 3750H		8,370	NA
AMD Ryzen Embedded V1807B		8,342	NA
Intel Core i5-1035G4 @ 1.10GHz		8,304	\$309.00*
Intel Core i5-9400H @ 2.50GHz		8,267	\$250.00*
Intel Core i5-8259U @ 2.30GHz		8,220	\$519.99
Intel Core i5-8400H @ 2.50GHz		8,175	\$250.00*
Intel Core i7-8706G @ 3.10GHz		8,136	NA
AMD Ryzen 5 3550H		8,096	NA
Intel Core i5-8269U @ 2.60GHz		8,055	\$320.00*
Intel Core i5-1035G1 @ 1.00GHz		8,006	\$297.00*
Intel Core i7-8709G @ 3.10GHz		7,921	NA
Intel Core i5-9300H @ 2.40GHz		7,880	\$250.00*
Intel Core i5-8260U @ 1.60GHz		7,869	\$439.99
AMD Ryzen 5 3580U		7,866	NA
Intel Core i5-8257U @ 1.40GHz		7,856	\$320.00*
AMD Ryzen 3 4300U		7,673	NA
AMD Ryzen 7 2800H		7,656	NA

⌵	Intel Core i5-9300HF @ 2.40GHz	<div></div>	7,648	\$250.00*
⌵	Intel Core i5-8270U @ 2.40GHz	<div></div>	7,625	\$230.00*

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⌵	Intel Core i3-10100T @ 3.00GHz	<div></div>	7,523	\$122.00*
⌵	Intel Core i7-1060NG7 @ 1.20GHz	<div></div>	7,430	NA
⌵	AMD Ryzen 7 3780U	<div></div>	7,386	NA
⌵	AMD Ryzen 7 3700U	<div></div>	7,359	NA
⌵	AMD Ryzen 7 PRO 3700U	<div></div>	7,346	NA
⌵	Intel Core i7-10610U @ 1.80GHz	<div></div>	7,159	\$409.00*
⌵	AMD Ryzen 5 3500U	<div></div>	7,147	NA
⌵	Intel Core i5-8305G @ 2.80GHz	<div></div>	7,073	NA
⌵	AMD Ryzen 3 PRO 3200GE	<div></div>	7,071	NA
⌵	Intel Core i7-7820EQ @ 3.00GHz	<div></div>	7,059	\$378.00*
⌵	Intel Core i5-10310U @ 1.70GHz	<div></div>	7,052	\$297.00*
⌵	Intel Core i7-5850EQ @ 2.70GHz	<div></div>	7,036	\$435.00*
⌵	AMD Ryzen 5 3450U	<div></div>	6,969	NA
⌵	Intel Core i7-10510U @ 1.80GHz	<div></div>	6,965	\$409.00*
⌵	AMD Ryzen 5 PRO 3500U	<div></div>	6,938	NA
⌵	AMD Ryzen Embedded V1605B	<div></div>	6,876	NA
⌵	Intel Core i7-8665UE @ 1.70GHz	<div></div>	6,587	\$409.00*
⌵	Intel Core i7-8665U @ 1.90GHz	<div></div>	6,526	\$704.49*
⌵	Intel Core i5-10210U @ 1.60GHz	<div></div>	6,496	\$700.62
⌵	Intel Core i5-8365U @ 1.60GHz	<div></div>	6,411	\$539.07*
⌵	Intel Core i7-8565U @ 1.80GHz	<div></div>	6,378	\$615.00*
⌵	Intel Core i3-1115G4 @ 3.00GHz	<div></div>	6,325	\$281.00*
⌵	Intel Core i7-8565UC @ 1.80GHz	<div></div>	6,187	NA
⌵	Intel Core i5-8265U @ 1.60GHz	<div></div>	6,129	\$499.88*
⌵	Intel Core i5-8265UC @ 1.60GHz	<div></div>	5,988	NA
⌵	AMD Ryzen 3 PRO 3300U	<div></div>	5,963	NA
⌵	Intel Core i3-8100B @ 3.60GHz	<div></div>	5,951	\$133.00*
⌵	AMD Ryzen 3 3300U	<div></div>	5,850	NA
⌵	Intel Core i5-7440EQ @ 2.90GHz	<div></div>	5,711	\$250.00*
⌵	Intel Core i3-9100TE @ 2.20GHz	<div></div>	5,705	\$122.00*
⌵	Intel Core i5-1030NG7 @ 1.10GHz	<div></div>	5,683	NA
⌵	Intel Pentium Gold 7505 @ 2.00GHz	<div></div>	5,513	NA
⌵	AMD Ryzen 3 2300U	<div></div>	5,473	NA
⌵	Intel Core i5-8365UE @ 1.60GHz	<div></div>	5,408	\$297.00*
⌵	Intel Core i7-10510Y @ 1.20GHz	<div></div>	5,289	\$403.00*
⌵	Intel Core i3-1005G1 @ 1.20GHz	<div></div>	5,216	\$281.00*
⌵	Intel Core i5-10210Y @ 1.00GHz	<div></div>	4,836	NA
⌵	Intel Core i5-7442EQ @ 2.10GHz	<div></div>	4,834	\$250.00*
⌵	AMD Athlon Silver 3050GE	<div></div>	4,545	NA
⌵	AMD Athlon 220GE	<div></div>	4,538	\$210.24
⌵	Intel Core i5-6442EQ @ 1.90GHz	<div></div>	4,519	\$250.00*
⌵	Intel Core i3-8121U @ 2.20GHz	<div></div>	4,369	\$290.00
⌵	Intel Core i3-8109U @ 3.00GHz	<div></div>	4,339	\$504.00
⌵	Intel Core i3-1000NG4 @ 1.10GHz	<div></div>	4,309	NA
⌵	AMD Athlon Gold 3150U	<div></div>	4,221	NA
⌵	AMD Ryzen 3 3250U	<div></div>	4,149	NA
⌵	Intel Core i5-7287U @ 3.30GHz	<div></div>	4,149	NA
⌵	Intel Core i3-8145UE @ 2.20GHz	<div></div>	4,133	\$281.00*
⌵	Intel Core i3-10110U @ 2.10GHz	<div></div>	4,032	\$332.55
⌵	AMD Athlon 300U	<div></div>	4,030	NA
⌵	AMD Ryzen Embedded R1505G	<div></div>	3,969	NA
⌵	AMD Ryzen 3 3200U	<div></div>	3,966	NA
⌵	Microsoft ARM SQ1 @ 3.0 GHz	<div></div>	3,944	NA
⌵	Intel Core i7-6660U @ 2.40GHz	<div></div>	3,885	\$415.00*
⌵	AMD Ryzen Embedded V1202B	<div></div>	3,823	NA
⌵	Intel Core i3-8145U @ 2.10GHz	<div></div>	3,817	\$281.00*
⌵	Intel Celeron N5100 @ 1.10GHz	<div></div>	3,790	NA
⌵	AMD A8-7680	<div></div>	3,531	\$50.08*
⌵	Intel Core i3-7167U @ 2.80GHz	<div></div>	3,489	NA
⌵	Intel Core i3-10110Y @ 1.00GHz	<div></div>	3,444	\$287.00*

Intel Core i5-10110Y @ 1.00GHz	<div></div>	3.372	\$281.00*
Intel Core i5-L16G7 @ 1.40GHz	<div></div>	3.372	\$281.00*


CPU Benchmarks

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Intel Core m3-8100Y @ 1.10GHz	<div></div>	3.022	\$281.00*
AMD Athlon Silver 3050e	<div></div>	3.010	NA
Intel Core i5-8210Y @ 1.60GHz	<div></div>	2.908	NA
Intel Core i7-8500Y @ 1.50GHz	<div></div>	2.832	\$393.00*
AMD A6-9400	<div></div>	2.717	NA
Intel Pentium Silver N5030 @ 1.10GHz	<div></div>	2.712	NA
AMD 3015e	<div></div>	2.678	NA
AMD 3020e	<div></div>	2.634	NA
Intel Core i3-7102E @ 2.10GHz	<div></div>	2.521	\$225.00*
Intel Celeron N4120 @ 1.10GHz	<div></div>	2.477	NA
Intel Celeron N4100 @ 1.10GHz	<div></div>	2.456	\$107.00*
Intel Core i3-6102E @ 1.90GHz	<div></div>	2.349	\$225.00*
Intel Pentium 6405U @ 2.40GHz	<div></div>	2.348	\$161.00*
Intel Core i5-8200Y @ 1.30GHz	<div></div>	2.308	\$291.00*
Intel Pentium 5405U @ 2.30GHz	<div></div>	2.307	\$161.00*
Intel Celeron 6305 @ 1.80GHz	<div></div>	2.246	NA
Intel Pentium 4417U @ 2.30GHz	<div></div>	2.230	\$161.00*
Intel Pentium G4400TE @ 2.40GHz	<div></div>	2.190	\$64.00*
Intel Celeron 4305UE @ 2.00GHz	<div></div>	1.950	NA
Intel Celeron G3900TE @ 2.30GHz	<div></div>	1.850	\$42.00*
AMD GX-420MC SOC	<div></div>	1.796	NA
Intel Pentium 4425Y @ 1.70GHz	<div></div>	1.679	\$161.00*
Intel Celeron N4020 @ 1.10GHz	<div></div>	1.622	NA
Intel Pentium 4415Y @ 1.60GHz	<div></div>	1.615	\$161.00*
Intel Celeron N4000C @ 1.10GHz	<div></div>	1.602	NA
AMD A9-9425	<div></div>	1.547	NA
Intel Celeron 3867U @ 1.80GHz	<div></div>	1.467	\$107.00*
Intel Celeron 5205U @ 1.90GHz	<div></div>	1.439	\$107.00*
AMD A6-9225	<div></div>	1.336	NA
Intel Celeron 4205U @ 1.80GHz	<div></div>	1.332	\$107.00*
Intel Atom T5700 @ 1.70GHz	<div></div>	1.326	NA
Intel Celeron 1020M @ 2.10GHz	<div></div>	1.275	NA
Intel Pentium A1020 @ 2.41GHz	<div></div>	1.265	NA
AMD A4-9125	<div></div>	1.215	NA
AMD R-272F APU	<div></div>	1.215	NA
AMD A6-9220C	<div></div>	1.208	NA
Intel Celeron 2002E @ 1.50GHz	<div></div>	1.091	\$86.00*
AMD PRO A4-4350B	<div></div>	1.046	NA
AMD A4-9120e	<div></div>	912	NA
AMD A4-9120C	<div></div>	766	NA
AMD G-T40R	<div></div>	120	NA

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