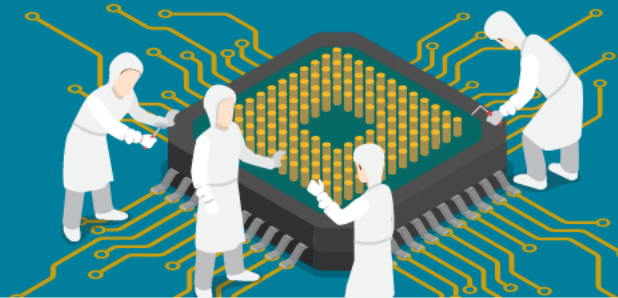


# CPU Benchmarks

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)

CPU Mark

Price Performance

Sorted by Date


## PassMark - CPU Mark


Laptop & Portable CPU Performance


Updated 29th of September 2020

CPU	CPU Mark		Price (USD)
AMD Ryzen 9 4900HS	<div></div>	19,870	NA
AMD Ryzen 9 4900H	<div></div>	19,566	NA
AMD Ryzen 7 4800H	<div></div>	19,406	NA
AMD Ryzen 7 4800HS	<div></div>	18,935	NA
AMD Ryzen 7 Extreme Edition	<div></div>	18,284	NA
Intel Core i9-10980HK @ 2.40GHz	<div></div>	17,308	\$583.00*
AMD Ryzen 7 4800U	<div></div>	17,294	NA

 **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** 0

 **Common**  
Most Benchmarked















 **AMD vs Intel Market Share**  
Year on Year Performance

Intel Xeon W-10885M @ 2.40GHz		17,213	\$623.00*
Intel Core i9-10885H @ 2.40GHz		16,305	\$556.00*
Intel Core i7-10875H @ 2.30GHz		15,990	\$450.00*
AMD Ryzen 7 PRO 4750U		15,735	NA
Intel Xeon E-2286M @ 2.40GHz		15,570	\$623.00*
Intel Core i9-9980HK @ 2.40GHz		15,296	\$583.00*
Intel Core i9-10880H @ 2.30GHz		15,137	NA
AMD Ryzen 5 4600HS		15,131	NA
AMD Ryzen 5 4600H		14,961	NA
AMD Ryzen 5 4600U		14,514	NA
Intel Core i9-9880H @ 2.30GHz		14,081	\$556.00*
AMD Ryzen 7 4700U		13,876	NA
Intel Xeon W-10855M @ 2.80GHz		13,412	\$450.00*
Intel Core i7-1165G7 @ 2.80GHz		13,190	\$426.00*
Intel Core i7-10850H @ 2.70GHz		13,120	\$395.00*
AMD Ryzen 5 PRO 4650U		13,085	NA
Intel Core i7-10750H @ 2.60GHz		12,753	NA
Intel Core i7-8700B @ 3.20GHz		12,286	\$303.00*
Intel Xeon E-2276M @ 2.80GHz		12,271	\$450.00*
AMD Ryzen 5 PRO 4500U		12,049	NA
Intel Xeon E-2186M @ 2.90GHz		11,854	\$623.00*
Intel Core i7-9750HF @ 2.60GHz		11,803	\$395.00*
Intel Core i7-9850H @ 2.60GHz		11,643	\$395.00*
Intel Core i7-9750H @ 2.60GHz		11,390	\$395.00*
AMD Ryzen 5 4500U		11,239	NA
Intel Core i9-8950HK @ 2.90GHz		10,755	\$583.00*
Intel Core i7-1068NG7 @ 2.30GHz		10,689	\$426.00*
Intel Core i7-9700TE @ 1.80GHz		10,680	\$323.00*
Intel Xeon E-2176M @ 2.70GHz		10,611	\$450.00*
Intel Core i5-1135G7 @ 2.40GHz		10,537	\$309.00*
Intel Core i7-8850H @ 2.60GHz		10,522	\$395.00*
Intel Core i7-1185G7 @ 3.00GHz		10,354	\$426.00*
Intel Core i7-8750H @ 2.20GHz		10,207	\$395.00*
AMD Ryzen 3 PRO 4450U		10,078	NA
Intel Core i7-10710U @ 1.10GHz		10,041	\$592.90
Intel Core i5-1038NG7 @ 2.00GHz		9,907	\$320.00*

Intel Core i5-9400F @ 2.90GHz		9,591	\$139.99
Intel Core i5-8500B @ 3.00GHz		9,538	\$192.00*
Intel Core i7-10810U @ 1.10GHz		9,359	\$443.00*
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		9,001	\$426.00*
Intel Core i5-10400H @ 2.60GHz		8,911	\$250.00*
Intel Core i5-10300H @ 2.50GHz		8,908	\$250.00*
Intel Core i7-8559U @ 2.70GHz		8,892	\$789.98
Intel Core i7-8809G @ 3.10GHz		8,774	NA
Intel Core i5-1035G7 @ 1.20GHz		8,495	\$320.00*
AMD Ryzen 7 3750H		8,430	NA
Intel Core i5-8259U @ 2.30GHz		8,271	\$473.94
Intel Core i5-1035G4 @ 1.10GHz		8,211	\$309.00*
Intel Core i5-9400H @ 2.50GHz		8,202	\$250.00*
Intel Core i5-8257U @ 1.40GHz		8,182	\$320.00*
Intel Core i5-8400H @ 2.50GHz		8,146	\$250.00*
Intel Core i7-8706G @ 3.10GHz		8,136	NA
AMD Ryzen 5 3550H		8,129	NA
AMD Ryzen Embedded V1807B		8,095	NA
AMD Ryzen 5 3580U		8,065	NA
Intel Core i5-9300H @ 2.40GHz		8,014	\$250.00*
Intel Core i5-1035G1 @ 1.00GHz		7,980	\$297.00*
Intel Core i7-8705G @ 3.10GHz		7,974	\$1,535.11
Intel Core i7-8709G @ 3.10GHz		7,921	NA
Intel Core i5-8279U @ 2.40GHz		7,917	\$320.00*
AMD Ryzen 3 4300U		7,828	NA
Intel Core i7-8557U @ 1.70GHz		7,820	\$431.00*
Intel Core i5-8260U @ 1.60GHz		7,776	\$297.00*
Intel Core i5-9300HF @ 2.40GHz		7,731	\$250.00*
AMD Ryzen 7 2800H		7,656	NA
Intel Core i3-10100T @ 3.00GHz		7,589	\$122.00*
AMD Ryzen 5 2600H		7,537	NA
Intel Core i5-8300H @ 2.30GHz		7,534	\$250.00*
AMD Ryzen 7 3700U		7,350	NA

AMD Ryzen 7 3700U		7,345	NA
Intel Core i7-10610U @ 1.80GHz		7,284	\$409.00*
AMD Ryzen 7 PRO 2700U		7,242	NA
AMD Ryzen 7 3780U		7,203	NA
AMD Ryzen 3 PRO 3200GE		7,170	NA
AMD Ryzen 5 3500U		7,152	NA
Intel Core i7-10510U @ 1.80GHz		7,081	\$409.00*
Intel Core i5-8305G @ 2.80GHz		7,073	NA
Intel Core i7-7820EQ @ 3.00GHz		7,059	\$378.00*
Intel Core i7-5850EQ @ 2.70GHz		7,036	\$435.00*
AMD Ryzen 5 PRO 3500U		6,999	NA
Intel Core i3-8100B @ 3.60GHz		6,829	\$133.00*
Intel Core i5-10310U @ 1.70GHz		6,756	\$297.00*
AMD Ryzen 5 2500U		6,625	NA
AMD Ryzen Embedded V1605B		6,620	NA
Intel Core i7-8665U @ 1.90GHz		6,602	\$665.45
Intel Xeon E3-1268L v5 @ 2.40GHz		6,600	\$456.54*
AMD Ryzen 7 2700U		6,595	NA
Intel Core i7-8665UE @ 1.70GHz		6,587	\$409.00*
Intel Core i7-8565U @ 1.80GHz		6,496	NA
Intel Core i5-10210U @ 1.60GHz		6,492	\$519.00
AMD Ryzen 5 PRO 2500U		6,474	NA
Intel Core i5-8365U @ 1.60GHz		6,434	\$659.95
Intel Core i5-8350U @ 1.70GHz		6,410	\$297.00*
Intel Core i5-8265U @ 1.60GHz		6,252	\$297.00*
Intel Core i7-1060NG7 @ 1.20GHz		6,234	NA
Intel Core i7-8565UC @ 1.80GHz		6,187	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		5,871	NA
Intel Core i7-10510Y @ 1.20GHz		5,523	\$403.00*
Intel Core i5-1030NG7 @ 1.10GHz		5,331	NA
AMD Ryzen 3 2300U		5,301	NA
Intel Core i3-1005G1 @ 1.20GHz		5,255	\$281.00*
Intel Core i5-8265U @ 1.60GHz		5,216	\$667.00*

Intel Core i5-8365UE @ 1.60GHz		5,243	\$297.00*
Intel Core i5-10210Y @ 1.00GHz		4,918	NA
Intel Core i5-7442EQ @ 2.10GHz		4,834	\$250.00*
Intel Core i5-6442EQ @ 1.90GHz		4,519	\$250.00*
AMD Athlon 220GE		4,505	\$162.70
Intel Core i3-8109U @ 3.00GHz		4,383	\$614.00
AMD Ryzen 3 3250U		4,344	NA
Intel Core i3-8121U @ 2.20GHz		4,340	\$294.99
Intel Core i3-1000NG4 @ 1.10GHz		4,326	NA
AMD Ryzen Embedded R1505G		4,280	NA
AMD Athlon Gold 3150U		4,185	NA
Intel Core i5-7287U @ 3.30GHz		4,149	NA
Intel Core i3-8145UE @ 2.20GHz		4,140	\$281.00*
AMD Athlon 300U		4,113	NA
Intel Core i3-10110U @ 2.10GHz		4,100	\$425.00
AMD Ryzen 3 3200U		4,090	NA
AMD Ryzen Embedded V1202B		3,734	NA
Intel Core i3-8145U @ 2.10GHz		3,723	\$281.00*
Intel Core i3-8130U @ 2.20GHz		3,657	\$281.00*
Intel Core i3-10110Y @ 1.00GHz		3,639	\$287.00*
AMD Ryzen 3 2200U		3,605	NA
AMD A8-7680		3,558	\$50.08*
Intel Core i3-7167U @ 2.80GHz		3,489	NA
Intel Core i5-6287U @ 3.10GHz		3,486	\$304.00*
Intel Core i3-7100H @ 3.00GHz		3,460	\$225.00*
AMD Embedded R-Series RX-418GD Radeon R6		3,426	NA
AMD Athlon Silver 3050U		3,233	NA
Intel Core i7-8500Y @ 1.50GHz		3,189	\$393.00*
Intel Core i5-L16G7 @ 1.40GHz		3,164	\$281.00*
Intel Core m3-8100Y @ 1.10GHz		3,036	\$281.00*
Intel Core i3-7130U @ 2.70GHz		2,995	\$459.99*
Intel Core i5-8210Y @ 1.60GHz		2,905	NA
AMD A6-9400		2,717	NA
AMD 3015e		2,678	NA
AMD 3020e		2,664	NA
AMD PRO A10-9700B		2,626	NA

Intel Pentium Silver N5000 @ 1.10GHz		2,594	\$161.00*
Intel Pentium Silver N5030 @ 1.10GHz		2,564	NA
Intel Core i3-7020U @ 2.30GHz		2,555	\$281.00*
Intel Core i3-7102E @ 2.10GHz		2,521	\$225.00*
Intel Celeron N4100 @ 1.10GHz		2,474	\$107.00*
Intel Celeron N4120 @ 1.10GHz		2,449	NA
Intel Pentium 6405U @ 2.40GHz		2,430	\$161.00*
Intel Core i3-6102E @ 1.90GHz		2,349	\$225.00*
Intel Pentium 5405U @ 2.30GHz		2,332	\$161.00*
Intel Core i5-8200Y @ 1.30GHz		2,308	\$291.00*
Intel Pentium 4417U @ 2.30GHz		2,267	\$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		1,705	NA
AMD PRO A6-7350B		1,679	NA
Intel Pentium 4415Y @ 1.60GHz		1,649	\$161.00*
Intel Celeron N4000C @ 1.10GHz		1,579	NA
AMD A9-9425		1,555	NA
Intel Pentium 4425Y @ 1.70GHz		1,544	\$161.00*
Intel Celeron 3867U @ 1.80GHz		1,467	\$107.00*
Intel Celeron N4000 @ 1.10GHz		1,467	\$107.00*
Intel Celeron 5205U @ 1.90GHz		1,451	\$107.00*
Intel Pentium 4410Y @ 1.50GHz		1,387	\$161.00*
Intel Atom C2538 @ 2.40GHz		1,356	\$104.00*
AMD A6-9225		1,353	NA
Intel Atom T5700 @ 1.70GHz		1,326	NA
AMD A4-9125		1,281	NA
Intel Celeron 1020M @ 2.10GHz		1,275	NA
AMD A6-9220C		1,273	NA
AMD Embedded G-Series GX-224IJ		1 271	NA

⌵ Radeon R4E			
⌵ Intel Pentium A1020 @ 2.41GHz	●	1,265	NA
⌵ AMD A4-9120	●	1,255	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	●	1,166	NA
⌵ Intel Celeron 2002E @ 1.50GHz	●	1,091	\$86.00*
⌵ AMD PRO A4-4350B	●	1,064	NA
⌵ AMD A6-9200	●	1,061	NA
⌵ AMD A6-9220e	●	1,017	NA
⌵ AMD A4-9120C	●	937	NA
⌵ AMD A4-9120e	●	831	NA
⌵ AMD G-T40R		120	NA
⌵ VIA Eden 1000MHz		80	NA

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**Software**

- > BurnInTest
- > PerformanceTest
- > OSForensics
- > MemTest86
- > WirelessMon
- > Zoom Search Engine
- > Free Software

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- > USB3.0 Loopback Plugs
- > USB2.0 Loopback Plugs
- > PCIe Test Cards
- > USB Power Delivery Tester
- > Serial and Parallel Loopback Plugs
- > USB Short Circuit Testers

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