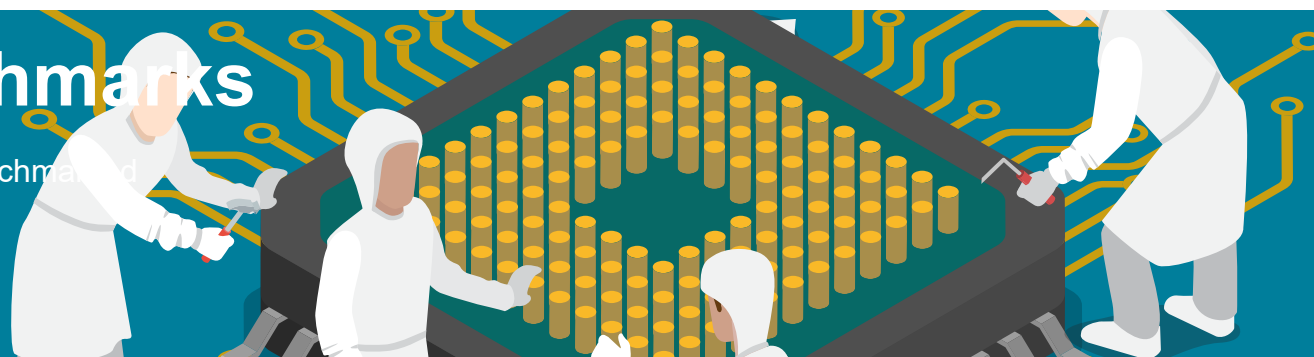


# CPU Benchmarks

Over 1,000,000 CPUs Benchmarks



## 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](#)

CPU Mark

Price Performance

Sorted by Date

## PassMark - CPU Mark

Laptop & Portable CPU Performance

Updated 5th of May 2021

CPU	CPU Mark	Price (USD)
<a href="#">AMD Ryzen 9 5900HX</a>	23,763	NA
<a href="#">AMD Ryzen 9 5900HS</a>	23,110	NA
<a href="#">AMD Ryzen 9 5980HS</a>	23,078	NA
<a href="#">AMD Ryzen 7 5800H</a>	22,168	NA
<a href="#">AMD Ryzen 7 5800HS</a>	21,337	NA
<a href="#">AMD Ryzen 7 PRO 5850U</a>	20,513	NA
<a href="#">AMD Ryzen 7 5800U</a>	19,997	NA
<a href="#">AMD Ryzen 9 4900HS</a>	19,710	NA
<a href="#">AMD Ryzen 7 4800H</a>	19,223	NA
<a href="#">AMD Ryzen 9 4900H</a>	19,028	NA
<a href="#">AMD Ryzen 7 4800HS</a>	19,025	NA
<a href="#">AMD Ryzen 5 5600H</a>	18,333	NA
<a href="#">AMD Ryzen 7 Extreme Edition</a>	18,187	NA
<a href="#">AMD Ryzen 7 4800U</a>	17,347	NA
<a href="#">Intel Xeon W-10885M @ 2.40GHz</a>	17,124	\$623.00*
<a href="#">Intel Core i9-10980HK @ 2.40GHz</a>	16,625	\$583.00*
<a href="#">Intel Core i7-10700TE @ 2.00GHz</a>	16,332	\$330.00*
<a href="#">AMD Ryzen 7 5700U</a>	16,307	NA
<a href="#">Intel Core i9-10885H @ 2.40GHz</a>	16,103	\$556.00*
<a href="#">Intel Core i7-10875H @ 2.30GHz</a>	15,975	\$450.00*
<a href="#">Intel Xeon E-2286M @ 2.40GHz</a>	15,697	\$1,618.06*
<a href="#">AMD Ryzen 7 PRO 4750U</a>	15,577	NA
<a href="#">Intel Core i7-10870H @ 2.20GHz</a>	15,545	\$417.00*



Intel Core i7-10670H @ 2.20GHz	15,375	\$717.00
Intel Core i9-10880H @ 2.30GHz	15,390	NA

**CPU Benchmarks**

most Benchmarked

AMD vs Intel Market Share

Year on Year Performance

AMD Ryzen 5 4600H	14,832	NA
AMD Ryzen 5 PRO 4400GE	14,795	NA
AMD Ryzen 5 5600U	14,784	NA
AMD Ryzen 5 4600HS	14,508	NA
Intel Core i9-9880H @ 2.30GHz	13,914	\$556.00*
AMD Ryzen 5 5500U	13,909	NA
AMD Ryzen 7 4700U	13,802	NA
AMD Ryzen 5 4600U	13,729	NA
Intel Core i7-11375H @ 3.30GHz	13,548	\$482.00*
Intel Xeon W-10855M @ 2.80GHz	13,159	\$450.00*
AMD Ryzen 5 PRO 4650U	12,995	NA
Intel Core i7-11370H @ 3.30GHz	12,854	\$426.00*
Intel Core i7-10750H @ 2.60GHz	12,575	NA
Intel Core i7-10850H @ 2.70GHz	12,558	\$395.00*
Intel Core i7-8700B @ 3.20GHz	12,413	\$303.00*
AMD Ryzen 3 5400U	12,367	NA
Intel Core i5-10500H @ 2.50GHz	12,254	\$250.00*
Intel Xeon E-2276M @ 2.80GHz	12,252	\$450.00*
AMD Ryzen 5 PRO 4500U	12,049	NA
Intel Core i5-11300H @ 3.10GHz	11,893	\$309.00*
Intel Core i7-9750HF @ 2.60GHz	11,648	\$395.00*
Intel Core i7-1185G7E @ 2.80GHz	11,645	\$431.00*
Intel Core i7-9850H @ 2.60GHz	11,570	\$1,305.76*
Intel Core i7-9750H @ 2.60GHz	11,327	\$2,224.00
AMD Ryzen 5 4500U	11,270	NA
Intel Core i7-1185G7 @ 3.00GHz	11,262	\$426.00*
AMD Ryzen 3 PRO 4200GE	11,006	NA
Intel Core i7-1160G7 @ 1.20GHz	10,997	\$426.00*
Intel Core i7-9700TE @ 1.80GHz	10,687	\$323.00*
AMD Ryzen 3 5300U	10,642	NA
Intel Core i5-1145G7 @ 2.60GHz	10,641	NA
Intel Core i7-1165G7 @ 2.80GHz	10,592	\$426.00*
Intel Core i5-1130G7 @ 1.10GHz	10,537	\$309.00*
Intel Core i7-1068NG7 @ 2.30GHz	10,335	\$426.00*
Intel Core i3-1125G4 @ 2.00GHz	10,327	NA
AMD Ryzen 3 PRO 4450U	10,097	NA
Intel Core i7-10710U @ 1.10GHz	10,093	\$644.99
Intel Core i5-1135G7 @ 2.40GHz	10,075	\$309.00*
Intel Core i5-1038NG7 @ 2.00GHz	9,661	\$320.00*
Intel Core i5-8500B @ 3.00GHz	9,551	\$192.00*
Intel Core i5-9400F @ 2.90GHz	9,542	\$167.98
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	9,013	\$250.00*

Intel Core i7-8559U @ 2.70GHz		8,873	\$811.20
Intel Core i7-1065G7 @ 1.30GHz		8,872	\$426.00*
Intel Core i7-1065G7 @ 1.30GHz		8,872	\$426.00*
Intel Core i7-8557U @ 1.70GHz		8,429	\$431.00*
Intel Core i5-1035G7 @ 1.20GHz		8,403	\$320.00*
AMD Ryzen 7 3750H		8,365	NA
AMD Ryzen Embedded V1807B		8,342	NA
Intel Core i5-1035G4 @ 1.10GHz		8,316	\$309.00*
Intel Core i5-8259U @ 2.30GHz		8,284	\$607.00*
Intel Core i5-9400H @ 2.50GHz		8,267	\$250.00*
Intel Core i5-8400H @ 2.50GHz		8,175	\$250.00*
Intel Core i7-8706G @ 3.10GHz		8,136	NA
AMD Ryzen 5 3550H		8,091	NA
Intel Core i5-8269U @ 2.60GHz		8,055	\$320.00*
AMD Ryzen 5 3580U		7,958	NA
Intel Core i5-1035G1 @ 1.00GHz		7,928	\$297.00*
Intel Core i7-8709G @ 3.10GHz		7,921	NA
Intel Core i5-9300H @ 2.40GHz		7,894	\$250.00*
Intel Core i5-8260U @ 1.60GHz		7,869	\$339.99
Intel Core i5-8257U @ 1.40GHz		7,836	\$320.00*
AMD Ryzen 3 4300U		7,706	NA
Intel Core i7-1060NG7 @ 1.20GHz		7,666	NA
AMD Ryzen 7 2800H		7,656	NA
Intel Core i5-9300HF @ 2.40GHz		7,607	\$250.00*
AMD Ryzen 5 2600H		7,537	NA
Intel Core i3-10100T @ 3.00GHz		7,517	\$122.00*
AMD Ryzen 7 PRO 3700U		7,446	NA
AMD Ryzen 7 3780U		7,386	NA
AMD Ryzen 7 3700U		7,362	NA
AMD Ryzen 5 3500U		7,151	NA
AMD Ryzen 7 PRO 2700U		7,146	NA
Intel Core i7-10610U @ 1.80GHz		7,120	\$409.00*
AMD Ryzen 3 PRO 3200GE		7,113	NA
Intel Core i5-8305G @ 2.80GHz		7,073	NA
Intel Core i7-7820EQ @ 3.00GHz		7,059	\$378.00*
Intel Core i5-10310U @ 1.70GHz		7,036	\$297.00*
Intel Core i7-5850EQ @ 2.70GHz		7,036	\$435.00*
Intel Core i5-8279U @ 2.40GHz		7,014	\$320.00*
AMD Ryzen 5 3450U		6,971	NA
Intel Core i7-10510U @ 1.80GHz		6,970	\$409.00*
AMD Ryzen 5 PRO 3500U		6,938	NA
AMD Ryzen Embedded V1605B		6,864	NA
AMD Ryzen 5 PRO 2500U		6,697	NA
Intel Core i7-8665UE @ 1.70GHz		6,587	\$409.00*
Intel Core i7-8665U @ 1.90GHz		6,546	\$704.49
Intel Core i5-10210U @ 1.60GHz		6,493	\$720.00
Intel Core i3-8100B @ 3.60GHz		6,417	\$133.00*
Intel Core i5-8365U @ 1.60GHz		6,402	\$522.48*
Intel Core i7-8565U @ 1.80GHz		6,381	\$599.88*

## CPU Benchmarks

Intel Core i3-1115G4 @ 3.00GHz		<b>6,331</b>	<u>\$281.00*</u>
AMD Ryzen 3 PRO 2300U		<b>6,216</b>	NA
AMD Ryzen 3 PRO 3300U		<b>6,060</b>	NA
Intel Core i5-8265UC @ 1.60GHz		<b>5,988</b>	NA
AMD Ryzen 3 3300U		<b>5,886</b>	NA
Intel Core i5-7440EQ @ 2.90GHz		<b>5,711</b>	<u>\$250.00*</u>
Intel Core i3-9100TE @ 2.20GHz		<b>5,705</b>	<u>\$122.00*</u>
Intel Core i5-1030NG7 @ 1.10GHz		<b>5,651</b>	NA
Intel Pentium Gold 7505 @ 2.00GHz		<b>5,574</b>	NA
AMD Ryzen 3 2300U		<b>5,450</b>	NA
Intel Core i5-8365UE @ 1.60GHz		<b>5,408</b>	<u>\$297.00*</u>
Intel Core i7-10510Y @ 1.20GHz		<b>5,289</b>	<u>\$403.00*</u>
Intel Core i3-1005G1 @ 1.20GHz		<b>5,218</b>	<u>\$281.00*</u>
Intel Core i5-10210Y @ 1.00GHz		<b>4,918</b>	NA
Intel Core i5-7442EQ @ 2.10GHz		<b>4,834</b>	<u>\$250.00*</u>
AMD Athlon Silver 3050GE		<b>4,545</b>	NA
AMD Athlon 220GE		<b>4,538</b>	<u>\$210.24</u>
Intel Core i5-6442EQ @ 1.90GHz		<b>4,519</b>	<u>\$250.00*</u>
Intel Core i3-8121U @ 2.20GHz		<b>4,369</b>	<u>\$290.00</u>
Intel Core i3-1000NG4 @ 1.10GHz		<b>4,355</b>	NA
Intel Core i3-8109U @ 3.00GHz		<b>4,354</b>	<u>\$473.00</u>
AMD Athlon Gold 3150U		<b>4,224</b>	NA
Intel Core i5-7287U @ 3.30GHz		<b>4,149</b>	NA
AMD Ryzen 3 3250U		<b>4,146</b>	NA
Intel Core i3-8145UE @ 2.20GHz		<b>4,133</b>	<u>\$281.00*</u>
Intel Core i3-10110U @ 2.10GHz		<b>4,044</b>	<u>\$462.00</u>
AMD Athlon 300U		<b>4,030</b>	NA
Microsoft ARM SQ1 @ 3.0 GHz		<b>4,014</b>	NA
AMD Ryzen Embedded R1505G		<b>3,969</b>	NA
AMD Ryzen 3 3200U		<b>3,964</b>	NA
Intel Core i7-6660U @ 2.40GHz		<b>3,885</b>	<u>\$415.00*</u>
AMD Ryzen Embedded V1202B		<b>3,823</b>	NA
Intel Core i3-8145U @ 2.10GHz		<b>3,822</b>	<u>\$281.00*</u>
AMD A8-7680		<b>3,531</b>	<u>\$50.08*</u>
Intel Core i3-7167U @ 2.80GHz		<b>3,489</b>	NA
Intel Core i3-10110Y @ 1.00GHz		<b>3,444</b>	<u>\$287.00*</u>
Intel Core i5-L16G7 @ 1.40GHz		<b>3,372</b>	<u>\$281.00*</u>
AMD Ryzen Embedded R1305G		<b>3,329</b>	NA
AMD Athlon Silver 3050U		<b>3,195</b>	NA
Intel Core m3-8100Y @ 1.10GHz		<b>3,022</b>	<u>\$281.00*</u>
AMD Athlon Silver 3050e		<b>3,010</b>	NA
Intel Core i5-8210Y @ 1.60GHz		<b>2,921</b>	NA
Intel Core i7-8500Y @ 1.50GHz		<b>2,832</b>	<u>\$393.00*</u>
AMD A6-9400		<b>2,717</b>	NA
Intel Pentium Silver N5030 @ 1.10GHz		<b>2,708</b>	NA
AMD 3015e		<b>2,678</b>	NA
AMD 3020e		<b>2,639</b>	NA
Intel Core i3-7102E @ 2.10GHz		<b>2,521</b>	<u>\$225.00*</u>

## CPU Benchmarks



Intel Celeron N4120 @ 1.10GHz		2,477	NA
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## CPU Benchmarks

Intel Pentium 6405U @ 2.40GHz		2,348	\$161.00*
Intel Core i5-8200Y @ 1.30GHz		2,308	\$291.00*
Intel Pentium 5405U @ 2.30GHz		2,305	\$161.00*
Intel Celeron 6305 @ 1.80GHz		2,246	NA
Intel Pentium 4417U @ 2.30GHz		2,230	\$161.00*
Intel Pentium G4400TE @ 2.40GHz		2,190	\$64.00*
Intel Celeron 4305UE @ 2.00GHz		1,950	NA
Intel Atom E3940 @ 1.60GHz		1,936	NA
Intel Celeron G3900TE @ 2.30GHz		1,850	\$42.00*
AMD GX-420MC SOC		1,796	NA
Intel Pentium 4425Y @ 1.70GHz		1,679	\$161.00*
Intel Celeron N4020 @ 1.10GHz		1,623	NA
Intel Pentium 4415Y @ 1.60GHz		1,615	\$161.00*
Intel Celeron N4000C @ 1.10GHz		1,602	NA
AMD A9-9425		1,546	NA
Intel Celeron 3867U @ 1.80GHz		1,467	\$107.00*
Intel Celeron 5205U @ 1.90GHz		1,439	\$107.00*
AMD A6-9225		1,342	NA
Intel Atom T5700 @ 1.70GHz		1,326	NA
Intel Celeron 4205U @ 1.80GHz		1,322	\$107.00*
Intel Celeron 1020M @ 2.10GHz		1,275	NA
Intel Pentium A1020 @ 2.41GHz		1,265	NA
AMD A4-9125		1,223	NA
AMD R-272F APU		1,215	NA
AMD A6-9220C		1,208	NA
Intel Celeron 2002E @ 1.50GHz		1,091	\$86.00*
AMD PRO A4-4350B		1,046	NA
AMD A4-9120e		894	NA
AMD A4-9120C		766	NA
AMD G-T40R		120	NA

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