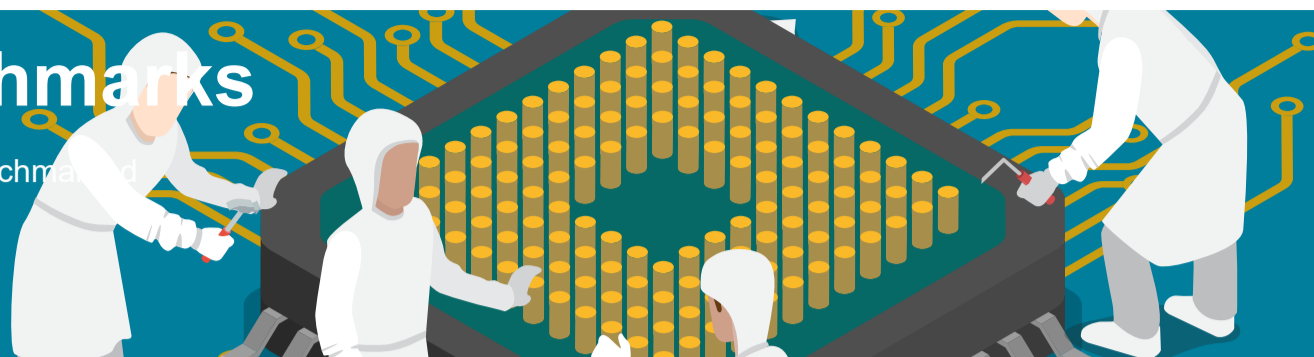


# CPU Benchmarks

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 8th of August 2022

CPU	CPU Mark	Price (USD)
<a href="#">Intel Core i7-12800HX</a>	36,511	\$457.00*
<a href="#">Intel Core i9-12900HX</a>	33,727	\$606.00*
<a href="#">Intel Core i9-12950HX</a>	32,921	\$590.00*
<a href="#">Intel Core i7-12850HX</a>	31,111	\$428.00*
<a href="#">Intel Core i9-12900HK</a>	29,608	\$635.00*
<a href="#">Intel Core i9-12900H</a>	29,065	\$617.00*
<a href="#">Intel Core i7-12700H</a>	27,065	\$457.00*
<a href="#">AMD Ryzen 7 6800HS Creator Edition</a>	24,692	NA
<a href="#">Intel Core i5-12600HX</a>	24,689	\$284.00*
<a href="#">AMD Ryzen 9 6900HX</a>	24,650	NA
<a href="#">Intel Core i7-12650H</a>	24,527	\$457.00*
<a href="#">AMD Ryzen 9 6900HS</a>	24,371	NA
<a href="#">AMD Ryzen 7 PRO 6850H</a>	24,325	NA
<a href="#">AMD Ryzen 7 6800HS</a>	23,706	NA
<a href="#">Intel Core i7-12800H</a>	23,661	\$457.00*
<a href="#">Intel Core i9-11980HK @ 2.60GHz</a>	23,524	\$583.00*
<a href="#">Intel Xeon W-11955M @ 2.60GHz</a>	23,418	\$623.00*
<a href="#">AMD Ryzen 9 PRO 6950HS</a>	23,392	NA
<a href="#">AMD Ryzen 9 5980HX</a>	23,319	NA
<a href="#">AMD Ryzen 9 5900HX</a>	23,089	NA
<a href="#">AMD Ryzen 7 6800H</a>	22,908	NA
<a href="#">Intel Core i9-11950H @ 2.60GHz</a>	22,413	\$556.00*

Compare

CPU Benchmarks

most  
Benchmarked

AMD vs Intel  
Market Share

Year on Year  
Performance



	<a href="#">Apple M1 Max 10 Core 3200 MHz</a>		<a href="#">22,331</a>	<a href="#">NA</a>
	<a href="#">AMD Ryzen 9 5900HS</a>		<a href="#">22,156</a>	<a href="#">NA</a>
	<a href="#">Apple M1 Pro 10 Core 3200 MHz</a>		<a href="#">22,136</a>	<a href="#">NA</a>
	<a href="#">Intel Core i5-12500H</a>		<a href="#">22,136</a>	<a href="#">\$311.00*</a>
	<a href="#">Intel Core i5-1250P</a>		<a href="#">21,712</a>	<a href="#">NA</a>
	<a href="#">AMD Ryzen 9 5980HS</a>		<a href="#">21,491</a>	<a href="#">NA</a>
	<a href="#">AMD Ryzen 7 5800H</a>		<a href="#">21,373</a>	<a href="#">NA</a>
	<a href="#">AMD Ryzen 7 6800U</a>		<a href="#">21,227</a>	<a href="#">NA</a>
	<a href="#">Intel Core i7-11800H @ 2.30GHz</a>		<a href="#">21,220</a>	<a href="#">\$395.00*</a>
	<a href="#">Intel Core i9-11900H @ 2.50GHz</a>		<a href="#">21,171</a>	<a href="#">\$546.00*</a>
	<a href="#">Intel Core i7-11850H @ 2.50GHz</a>		<a href="#">21,143</a>	<a href="#">\$395.00*</a>
	<a href="#">Intel Core i5-12600H</a>		<a href="#">21,000</a>	<a href="#">\$311.00*</a>
	<a href="#">AMD Ryzen 9 5900H</a>		<a href="#">20,960</a>	<a href="#">NA</a>
	<a href="#">AMD Ryzen 7 5800HS Creator Edition</a>		<a href="#">20,948</a>	<a href="#">NA</a>
	<a href="#">AMD Ryzen 7 5800HS</a>		<a href="#">20,666</a>	<a href="#">NA</a>
	<a href="#">AMD Ryzen 5 6600H</a>		<a href="#">20,179</a>	<a href="#">NA</a>
	<a href="#">Intel Core i7-1280P</a>		<a href="#">19,939</a>	<a href="#">\$482.00*</a>
	<a href="#">AMD Ryzen 7 PRO 6850HS</a>		<a href="#">19,658</a>	<a href="#">NA</a>
	<a href="#">AMD Ryzen 9 4900HS</a>		<a href="#">19,362</a>	<a href="#">NA</a>
	<a href="#">AMD Ryzen 9 4900H</a>		<a href="#">19,339</a>	<a href="#">NA</a>
	<a href="#">AMD Ryzen 7 4800H</a>		<a href="#">18,986</a>	<a href="#">NA</a>
	<a href="#">AMD Ryzen 7 5800U</a>		<a href="#">18,861</a>	<a href="#">NA</a>
	<a href="#">AMD Ryzen 7 4800HS</a>		<a href="#">18,827</a>	<a href="#">NA</a>
	<a href="#">Intel Xeon W-11855M @ 3.20GHz</a>		<a href="#">18,810</a>	<a href="#">\$450.00*</a>
	<a href="#">Intel Core i5-12450H</a>		<a href="#">18,612</a>	<a href="#">\$311.00*</a>
	<a href="#">AMD Ryzen 7 5825U</a>		<a href="#">18,415</a>	<a href="#">NA</a>
	<a href="#">AMD Ryzen 7 Extreme Edition</a>		<a href="#">18,192</a>	<a href="#">NA</a>
	<a href="#">Intel Core i3-1220P</a>		<a href="#">18,058</a>	<a href="#">\$281.00*</a>
	<a href="#">Intel Core i7-1270P</a>		<a href="#">17,951</a>	<a href="#">NA</a>
	<a href="#">Intel Core i5-1240P</a>		<a href="#">17,468</a>	<a href="#">NA</a>
	<a href="#">AMD Ryzen 7 PRO 5850U</a>		<a href="#">17,424</a>	<a href="#">NA</a>
	<a href="#">Apple M1 Pro 8 Core 3200 MHz</a>		<a href="#">17,322</a>	<a href="#">NA</a>
	<a href="#">Intel Core i7-1260P</a>		<a href="#">17,258</a>	<a href="#">NA</a>
	<a href="#">AMD Ryzen 5 6600U</a>		<a href="#">17,257</a>	<a href="#">NA</a>
	<a href="#">AMD Ryzen 5 5600H</a>		<a href="#">17,156</a>	<a href="#">NA</a>
	<a href="#">AMD Ryzen 5 5560U</a>		<a href="#">17,084</a>	<a href="#">NA</a>
	<a href="#">AMD Ryzen 7 4800U</a>		<a href="#">17,014</a>	<a href="#">NA</a>
	<a href="#">AMD Ryzen 7 PRO 5875U</a>		<a href="#">16,929</a>	<a href="#">NA</a>
	<a href="#">AMD Ryzen 5 PRO 6650U</a>		<a href="#">16,888</a>	<a href="#">NA</a>
	<a href="#">Intel Core i7-10700TE @ 2.00GHz</a>		<a href="#">16,332</a>	<a href="#">\$330.00*</a>
	<a href="#">Intel Core i7-10700E @ 2.90GHz</a>		<a href="#">16,257</a>	<a href="#">\$330.00*</a>
	<a href="#">Intel Core i5-11500H @ 2.90GHz</a>		<a href="#">16,133</a>	<a href="#">\$250.00*</a>
	<a href="#">Intel Xeon W-10885M @ 2.40GHz</a>		<a href="#">16,084</a>	<a href="#">\$623.00*</a>
	<a href="#">Intel Core i9-10980HK @ 2.40GHz</a>		<a href="#">16,079</a>	<a href="#">\$583.00*</a>
	<a href="#">Intel Core i5-11400H @ 2.70GHz</a>		<a href="#">16,021</a>	<a href="#">\$250.00*</a>
	<a href="#">AMD Ryzen 7 5700U</a>		<a href="#">15,931</a>	<a href="#">NA</a>
	<a href="#">AMD Ryzen 7 4850U Mobile</a>		<a href="#">15,920</a>	<a href="#">NA</a>
	<a href="#">Intel Core i7-11600H @ 2.90GHz</a>		<a href="#">15,907</a>	<a href="#">\$395.00*</a>
	<a href="#">Intel Core i9-10885H @ 2.40GHz</a>		<a href="#">15,619</a>	<a href="#">\$556.00*</a>

AMD Ryzen 7 PRO 4750U		15,426	NA
Intel Core i5-11260H @ 2.60GHz		15,398	\$250.00*
Intel Core i7-10875H @ 2.30GHz		15,379	\$450.00*
AMD Ryzen 5 PRO 5650U		15,232	NA
Apple M2 8 Core 3500 MHz		14,990	NA
Intel Core i7-10870H @ 2.20GHz		14,928	\$417.00*
AMD Ryzen 5 PRO 4400GE		14,795	NA
AMD Ryzen 5 4600HS		14,735	NA
Intel Core i9-10880H @ 2.30GHz		14,735	NA
AMD Ryzen 5 4600H		14,713	NA
Apple M1 8 Core 3200 MHz		14,529	NA
AMD Ryzen 5 5625U		14,501	NA
Intel Core i5-1235U		13,814	\$309.00*
AMD Ryzen 7 4700U		13,608	NA
AMD Ryzen 5 4600U		13,456	NA
AMD Ryzen 5 PRO 5675U		13,347	NA
AMD Ryzen 5 5500U		13,183	NA
Intel Core i7-1255U		13,107	\$426.00*
Intel Core i7-1265U		12,948	\$426.00*
Intel Xeon W-10855M @ 2.80GHz		12,906	\$450.00*
AMD Ryzen 5 PRO 4650U		12,839	NA
Intel Core i7-11375H @ 3.30GHz		12,286	\$482.00*
Intel Core i7-10750H @ 2.60GHz		12,277	NA
Intel Core i7-10850H @ 2.70GHz		12,133	\$395.00*
Intel Core i3-1210U		12,130	NA
AMD Ryzen 3 PRO 5475U		12,074	NA
AMD Ryzen 5 PRO 4500U		12,049	NA
Intel Core i7-11370H @ 3.30GHz		11,956	\$426.00*
AMD Ryzen 3 5400U		11,871	NA
Intel Core i3-1215U		11,817	NA
Intel Core i5-10500H @ 2.50GHz		11,637	\$250.00*
AMD Ryzen 3 PRO 5450U		11,563	NA
Intel Core i7-9750HF @ 2.60GHz		11,159	\$395.00*
AMD Ryzen 5 4500U		11,073	NA
Intel Core i5-11300H @ 3.10GHz		11,028	\$309.00*
AMD Ryzen 3 PRO 4200GE		10,930	NA
Intel Core i7-1195G7 @ 2.90GHz		10,922	\$426.00*
Intel Core i7-9700TE @ 1.80GHz		10,826	\$323.00*
Intel Core i7-1185G7 @ 3.00GHz		10,819	\$426.00*
Intel Core i5-11320H @ 3.20GHz		10,685	\$309.00*
Intel Core i7-11390H @ 3.40GHz		10,614	\$426.00*
Intel Core i7-1165G7 @ 2.80GHz		10,501	\$426.00*
AMD Ryzen 3 5425U		10,203	NA
Intel Core i5-1145G7 @ 2.60GHz		10,187	NA
AMD Ryzen 3 PRO 4450U		10,169	NA
Intel Core i5-1135G7 @ 2.40GHz		10,077	\$309.00*
Intel Core i5-1155G7 @ 2.50GHz		10,058	\$309.00*
Intel Core i7-1068NG7 @ 2.30GHz		10,057	\$426.00*
Intel Core i7-10710U @ 1.10GHz		10,004	\$644.99*

## CPU Benchmarks

AMD Ryzen 3 5300U		9,987	NA
Intel Core i7-1185G7E @ 2.80GHz		9,980	\$431.00*
Intel Core i5-1230U		9,896	\$309.00*
Intel Core i5-1038NG7 @ 2.00GHz		9,629	\$320.00*
Intel Core i7-1160G7 @ 1.20GHz		9,571	\$426.00*
Intel Core i5-9500TE @ 2.20GHz		9,212	\$192.00*
Intel Core i7-9850HL @ 1.90GHz		9,112	\$395.00*
Intel Core i5-10400H @ 2.60GHz		8,954	\$250.00*
Intel Core i5-1130G7 @ 1.10GHz		8,931	\$309.00*
Intel Core i7-1180G7 @ 1.30GHz		8,837	\$426.00*
Intel Core i5-10300H @ 2.50GHz		8,644	\$250.00*
Intel Core i7-8569U @ 2.80GHz		8,626	\$431.00*
Intel Core i5-1035G7 @ 1.20GHz		8,510	\$320.00*
Intel Core i5-10200H @ 2.40GHz		8,391	\$250.00*
Intel Core i7-8557U @ 1.70GHz		8,225	\$431.00*
Intel Core i5-1035G4 @ 1.10GHz		8,154	\$309.00*
Intel Core i5-8269U @ 2.60GHz		8,055	\$320.00*
Intel Core i7-10810U @ 1.10GHz		7,980	\$443.00*
Intel Core i5-8260U @ 1.60GHz		7,854	\$439.99*
Intel Core i5-8279U @ 2.40GHz		7,787	\$320.00*
Intel Core i5-8257U @ 1.40GHz		7,672	\$320.00*
AMD Ryzen 7 3780U		7,651	NA
Intel Core i5-9300HF @ 2.40GHz		7,617	\$250.00*
Intel Core i5-1035G1 @ 1.00GHz		7,603	\$297.00*
AMD Ryzen 3 4300U		7,565	NA
Intel Core i3-10100T @ 3.00GHz		7,415	\$122.00*
AMD Ryzen 5 3580U		7,383	NA
AMD Ryzen 7 3700C		7,145	NA
Intel Core i7-10610U @ 1.80GHz		7,013	\$409.00*
Intel Core i7-1060NG7 @ 1.20GHz		6,971	NA
AMD Ryzen 5 3450U		6,789	NA
Intel Core i7-10510U @ 1.80GHz		6,787	\$409.00*
Intel Pentium Gold 8505		6,771	NA
Intel Core i5-10310U @ 1.70GHz		6,550	\$297.00*
Intel Core i5-10210U @ 1.60GHz		6,374	\$702.62*
Intel Core i3-1115G4 @ 3.00GHz		6,244	\$281.00*
Intel Core i7-8565UC @ 1.80GHz		6,187	NA
Intel Core i5-1030NG7 @ 1.10GHz		6,086	NA
AMD Ryzen 3 3350U		5,889	NA
Intel Core i5-7440EQ @ 2.90GHz		5,711	\$250.00*
Intel Core i5-8365UE @ 1.60GHz		5,555	\$297.00*
Intel Pentium Gold 7505 @ 2.00GHz		5,291	NA
AMD Ryzen 5 3500C		5,214	NA
Intel Core i3-1005G1 @ 1.20GHz		5,085	\$281.00*
Intel Core i7-8665UE @ 1.70GHz		5,017	\$409.00*
Intel Core i7-10510Y @ 1.20GHz		5,016	\$403.00*
Intel Core i5-10210Y @ 1.00GHz		4,964	NA
Microsoft ARM SQ1 @ 3.0 GHz		4,961	NA

## CPU Benchmarks

Intel Core i5-6442EQ @ 1.90GHz		<b>4,598</b>	<b>\$250.00*</b>
AMD Athlon Silver 3050GF		<b>4,545</b>	NA

## CPU Benchmarks

Intel Core i3-9100TE @ 2.20GHz		<b>4,501</b>	<b>\$122.00*</b>
Intel Pentium 6805 @ 1.10GHz		<b>4,448</b>	<b>\$161.00*</b>
Intel Core i5-6350HQ @ 2.30GHz		<b>4,255</b>	<b>\$306.00*</b>
Intel Core i3-8140U @ 2.10GHz		<b>4,227</b>	NA
Intel Core i3-8145UE @ 2.20GHz		<b>4,087</b>	<b>\$281.00*</b>
AMD Athlon Gold 3150U		<b>3,986</b>	NA
Intel Core i3-10110U @ 2.10GHz		<b>3,983</b>	<b>\$434.17*</b>
AMD Ryzen 3 3250U		<b>3,971</b>	NA
Intel Core i3-1000NG4 @ 1.10GHz		<b>3,827</b>	NA
Intel Core i5-L16G7 @ 1.40GHz		<b>3,421</b>	<b>\$281.00*</b>
Intel Pentium Silver N5020 @ 1.10GHz		<b>3,404</b>	NA
Intel Celeron N5100 @ 1.10GHz		<b>3,304</b>	NA
Intel Core i3-10110Y @ 1.00GHz		<b>3,278</b>	<b>\$287.00*</b>
AMD Ryzen Embedded R1305G		<b>3,109</b>	NA
AMD Ryzen 3 3250C		<b>3,044</b>	NA
AMD Athlon Silver 3050U		<b>3,042</b>	NA
AMD Athlon Silver 3050e		<b>2,955</b>	NA
AMD 3015e		<b>2,720</b>	NA
AMD A6-9400		<b>2,717</b>	NA
Intel Pentium Silver N5030 @ 1.10GHz		<b>2,695</b>	NA
Intel Celeron 7305		<b>2,665</b>	<b>\$107.00*</b>
Intel Celeron N4120 @ 1.10GHz		<b>2,519</b>	NA
AMD 3020e		<b>2,474</b>	NA
Intel Pentium 6405U @ 2.40GHz		<b>2,370</b>	<b>\$161.00*</b>
Intel Core i3-6102E @ 1.90GHz		<b>2,349</b>	<b>\$225.00*</b>
AMD Athlon Gold 3150C		<b>2,310</b>	NA
Intel Celeron 6305 @ 1.80GHz		<b>2,154</b>	NA
Intel Celeron 4305UE @ 2.00GHz		<b>1,876</b>	NA
Intel Pentium 4425Y @ 1.70GHz		<b>1,726</b>	<b>\$161.00*</b>
Intel Celeron N4020C @ 1.10GHz		<b>1,630</b>	NA
Intel Celeron N4020 @ 1.10GHz		<b>1,572</b>	NA
Intel Celeron 5205U @ 1.90GHz		<b>1,440</b>	<b>\$107.00*</b>
Intel Celeron N4000C @ 1.10GHz		<b>1,360</b>	NA
Intel Celeron 1020M @ 2.10GHz		<b>1,275</b>	NA
Intel Pentium A1020 @ 2.41GHz		<b>1,265</b>	NA
AMD R-272F APU		<b>1,215</b>	NA
AMD PRO A4-4350B		<b>1,106</b>	NA
AMD A4-9120C		<b>869</b>	NA

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