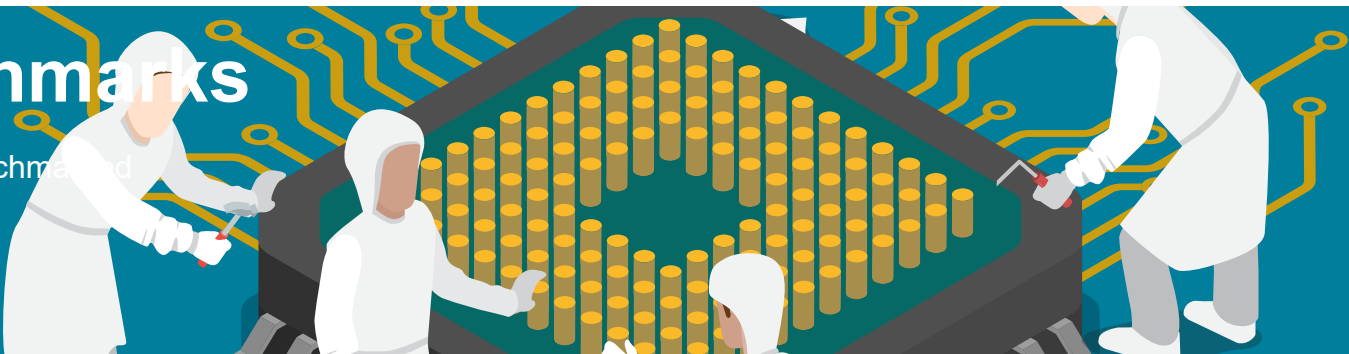


CPU Benchmarks

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** 0

CPU Mark	Price Performance	Sorted by Date
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PassMark - CPU Mark				
Laptop & Portable CPU Performance				
Updated 20th of September 2022				
CPU	CPU Mark			Price (USD)
Intel Core i9-12900HX		35,595		\$606.00*
Intel Core i7-12800HX		35,473		\$457.00*
Intel Core i9-12950HX		33,662		\$590.00*
Intel Core i7-12850HX		31,304		\$428.00*
Intel Core i9-12900HK		29,559		\$635.00*
Intel Core i9-12900H		29,011		\$617.00*
Intel Core i7-12700H		26,863		\$457.00*
AMD Ryzen 9 6900HX		25,004		NA
Intel Core i7-12650H		24,732		\$457.00*
Intel Core i5-12600HX		24,689		\$284.00*
AMD Ryzen 9 PRO 6950H		24,504		NA
Intel Core i7-12800H		24,335		\$457.00*
AMD Ryzen 9 6900HS		24,140		NA
AMD Ryzen 9 PRO 6950HS		23,843		NA
AMD Ryzen 7 PRO 6850H		23,657		NA
AMD Ryzen 7 6800H		23,503		NA
Intel Core i9-11980HK @ 2.60GHz		23,463		\$583.00*
AMD Ryzen 7 6800HS Creator Edition		23,449		NA
Intel Xeon W-11955M @ 2.60GHz		23,259		\$623.00*
AMD Ryzen 9 5980HX		23,035		NA
AMD Ryzen 9 5900HX		23,011		NA
AMD Ryzen 7 6800HS		22,656		NA



CPU Benchmarks



Benchmarked



AMD vs Intel
Market Share

Year on Year
Performance

Intel Core i9-11950H @ 2.60GHz		22,414	\$556.00*
Apple M1 Pro 10 Core 3200 MHz		22,374	NA
AMD Ryzen 9 5900HS		22,171	NA
Apple M1 Pro 10 Core 3200 MHz		22,061	NA
Intel Core i5-12500H		21,622	\$311.00*
AMD Ryzen 9 5980HS		21,491	NA
AMD Ryzen 9 6900HS Creator Edition		21,488	NA
AMD Ryzen 7 5800H		21,346	NA
AMD Ryzen 7 PRO 6850U		21,159	NA
Intel Core i7-11800H @ 2.30GHz		21,152	\$395.00*
Intel Core i7-11850H @ 2.50GHz		21,119	\$395.00*
Intel Core i9-11900H @ 2.50GHz		21,077	\$546.00*
AMD Ryzen 9 5900H		20,960	NA
AMD Ryzen 7 5800HS Creator Edition		20,948	NA
AMD Ryzen 7 6800U		20,886	NA
Intel Core i7-12700TE		20,712	\$344.00*
AMD Ryzen 7 5800HS		20,663	NA
AMD Ryzen 5 PRO 6650H		20,103	NA
AMD Ryzen 7 PRO 6850HS		20,062	NA
Intel Core i7-1280P		19,745	\$482.00*
AMD Ryzen 9 4900HS		19,346	NA
AMD Ryzen 9 4900H		19,226	NA
AMD Ryzen 5 6600H		19,185	NA
AMD Ryzen 7 4800H		18,947	NA
AMD Ryzen 7 5800U		18,821	NA
AMD Ryzen 7 4800HS		18,819	NA
Intel Core i7-1270P		18,451	NA
Intel Xeon W-11855M @ 3.20GHz		18,436	\$450.00*
Intel Core i5-12450H		18,382	\$311.00*
AMD Ryzen 7 Extreme Edition		18,192	NA
AMD Ryzen 7 5825U		18,138	NA
AMD Ryzen 7 PRO 5850U		17,373	NA
Intel Core i5-1250P		17,368	NA
AMD Ryzen 5 6600U		17,342	NA
AMD Ryzen 7 4980U Microsoft Surface Edition		17,335	NA
Apple M1 Pro 8 Core 3200 MHz		17,310	NA
AMD Ryzen 5 PRO 6650U		17,144	NA
Intel Core i7-1260P		17,134	NA
Intel Core i5-1240P		17,125	NA
AMD Ryzen 5 5600H		17,111	NA
AMD Ryzen 5 5560U		17,084	NA
AMD Ryzen 7 4800U		17,007	NA
Intel Core i5-12500TE		16,865	\$205.00*
Intel Core i7-10700E @ 2.90GHz		16,418	\$330.00*
Intel Core i7-10700TE @ 2.00GHz		16,332	\$330.00*
AMD Ryzen 7 PRO 5875U		16,322	NA
Intel Core i5-11500H @ 2.90GHz		16,133	\$250.00*
Intel Core i3-1220P		16,102	\$281.00*
Intel Core i9-10980HK @ 2.40GHz		16,068	\$583.00*

Intel Xeon W-10885M @ 2.40GHz		16,050	\$623.00*
Intel Core i5-11400U @ 2.70GHz		15,984	\$250.00*
Intel Core i7-11600H @ 2.90GHz		15,907	\$395.00*
AMD Ryzen 7 5700U		15,891	NA
Intel Core i5-11260H @ 2.60GHz		15,654	\$250.00*
Intel Core i9-10885H @ 2.40GHz		15,565	\$556.00*
Apple M2 8 Core 3500 MHz		15,431	NA
AMD Ryzen 7 PRO 4750U		15,390	NA
Intel Core i7-10875H @ 2.30GHz		15,345	\$450.00*
AMD Ryzen 5 5600U		15,327	NA
AMD Ryzen 5 PRO 5650U		15,154	NA
Intel Core i7-10870H @ 2.20GHz		14,857	\$417.00*
AMD Ryzen 5 PRO 4400GE		14,795	NA
AMD Ryzen 5 4600HS		14,741	NA
Intel Core i9-10880H @ 2.30GHz		14,735	NA
AMD Ryzen 5 4600H		14,683	NA
Apple M1 8 Core 3200 MHz		14,475	NA
AMD Ryzen 5 5625U		14,357	NA
AMD Ryzen 5 PRO 5675U		14,231	NA
Intel Core i5-1235U		13,628	\$309.00*
AMD Ryzen 7 4700U		13,574	NA
AMD Ryzen 5 4600U		13,445	NA
Intel Core i7-1255U		13,363	\$426.00*
AMD Ryzen 5 5500U		13,165	NA
Intel Core i7-1265U		13,139	\$426.00*
Intel Core i3-12100TE		12,961	\$125.00*
Intel Xeon W-10855M @ 2.80GHz		12,902	\$450.00*
AMD Ryzen 5 PRO 4650U		12,824	NA
Intel Core i7-1260U		12,701	NA
Intel Core i7-11375H @ 3.30GHz		12,294	\$482.00*
Intel Core i7-10750H @ 2.60GHz		12,237	NA
Intel Core i3-1210U		12,130	NA
Intel Core i7-10850H @ 2.70GHz		12,118	\$395.00*
AMD Ryzen 3 PRO 5475U		12,074	NA
AMD Ryzen 5 PRO 4500U		12,049	NA
Intel Core i7-11370H @ 3.30GHz		11,937	\$426.00*
AMD Ryzen 3 5400U		11,828	NA
Intel Core i3-1215U		11,618	NA
Intel Core i5-10500H @ 2.50GHz		11,615	\$250.00*
Intel Core i7-9750HF @ 2.60GHz		11,159	\$395.00*
AMD Ryzen 3 PRO 5450U		11,082	NA
AMD Ryzen 5 4500U		11,058	NA
Intel Core i5-11300H @ 3.10GHz		11,052	\$309.00*
Intel Core i7-1195G7 @ 2.90GHz		10,952	\$426.00*
AMD Ryzen 3 PRO 4200GE		10,930	NA
Intel Core i7-1185G7 @ 3.00GHz		10,774	\$426.00*
Intel Core i7-9700TE @ 1.80GHz		10,740	\$323.00*
Intel Core i5-11320H @ 3.20GHz		10,720	\$309.00*
Intel Core i7-11390H @ 3.40GHz		10,597	\$426.00*
Intel Core i5-1230U		10,526	\$309.00*
Intel Core i7-1165G7 @ 2.80GHz		10,484	\$426.00*



		Intel Core i7-1165G7 @ 2.80GHz		10,404	\$420.00	
		AMD Ryzen 3 5425U		10,359	NA	



AMD Ryzen 3 PRO 4450U		10,082	NA
Intel Core i5-1135G7 @ 2.40GHz		10,056	\$309.00*
Intel Core i5-1155G7 @ 2.50GHz		9,995	\$309.00*
Intel Core i7-1185G7E @ 2.80GHz		9,980	\$431.00*
Intel Core i5-10500TE @ 2.30GHz		9,960	\$195.00*
Intel Core i3-1125G4 @ 2.00GHz		9,960	NA
Intel Core i7-10710U @ 1.10GHz		9,938	\$644.99*
AMD Ryzen 3 5300U		9,921	NA
Intel Core i7-1068NG7 @ 2.30GHz		9,919	\$426.00*
Intel Core i5-1038NG7 @ 2.00GHz		9,571	\$320.00*
Intel Core i7-1160G7 @ 1.20GHz		9,229	\$426.00*
Intel Core i5-9500TE @ 2.20GHz		9,212	\$192.00*
Intel Core i7-9850HL @ 1.90GHz		9,112	\$395.00*
Intel Core i5-1130G7 @ 1.10GHz		8,927	\$309.00*
Intel Core i5-10400H @ 2.60GHz		8,841	\$250.00*
Intel Core i5-10300H @ 2.50GHz		8,647	\$250.00*
Intel Core i7-1180G7 @ 1.30GHz		8,514	\$426.00*
Intel Core i5-1035G7 @ 1.20GHz		8,502	\$320.00*
Intel Core i7-8569U @ 2.80GHz		8,479	\$431.00*
Intel Core i5-10200H @ 2.40GHz		8,363	\$250.00*
Intel Core i7-8557U @ 1.70GHz		8,225	\$431.00*
Intel Core i5-1035G4 @ 1.10GHz		8,131	\$309.00*
AMD Athlon Gold PRO 4150GE		8,070	NA
Intel Core i5-8269U @ 2.60GHz		8,055	\$320.00*
Intel Core i7-10810U @ 1.10GHz		7,984	\$443.00*
Intel Core i5-8260U @ 1.60GHz		7,854	\$439.99*
Intel Core i5-8257U @ 1.40GHz		7,658	\$320.00*
AMD Ryzen 7 3780U		7,651	NA
Intel Core i5-9300HF @ 2.40GHz		7,579	\$250.00*
AMD Ryzen 3 4300U		7,558	NA
AMD Ryzen 5 3580U		7,383	NA
Intel Core i3-10100T @ 3.00GHz		7,350	\$122.00*
AMD Ryzen 7 3700C		7,145	NA
Intel Core i7-10610U @ 1.80GHz		7,028	\$409.00*
Intel Core i7-1060NG7 @ 1.20GHz		6,902	NA
AMD Ryzen 5 3450U		6,783	NA
Intel Pentium Gold 8505		6,670	NA
Intel Core i5-10310U @ 1.70GHz		6,507	\$297.00*
Intel Core i3-1115G4 @ 3.00GHz		6,234	\$281.00*
Intel Core i7-8565UC @ 1.80GHz		6,187	NA
Intel Core i5-1030NG7 @ 1.10GHz		5,969	NA
AMD Ryzen 3 3350U		5,894	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		5,281	NA
AMD Ryzen 5 3500C		5,214	NA
Intel Core i3-1005G1 @ 1.20GHz		5,072	\$281.00*

	Intel Core i7-8665UE @ 1.70GHz		5,017	\$409.00*	
	Intel Core i7-10510Y @ 1.20GHz		5,016	\$403.00*	

 CPU Benchmarks ▼

	Microsoft ARM SQT @ 3.0 GHz		4,301	NA	
	Intel Pentium Silver N6005 @ 2.00GHz		4,584	NA	
	AMD Athlon Silver 3050GE		4,545	NA	
	Intel Core i3-9100TE @ 2.20GHz		4,501	\$122.00*	
	Intel Pentium 6805 @ 1.10GHz		4,448	\$161.00*	
	Intel Core i5-6350HQ @ 2.30GHz		4,255	\$306.00*	
	Intel Core i3-8140U @ 2.10GHz		4,227	NA	
	Intel Core i3-8145UE @ 2.20GHz		4,087	\$281.00*	
	Intel Core i3-10110U @ 2.10GHz		4,004	\$434.17*	
	AMD Athlon Gold 3150U		3,959	NA	
	AMD Ryzen 3 3250U		3,936	NA	
	Intel Core i3-1000NG4 @ 1.10GHz		3,864	NA	
	Intel Core i5-L16G7 @ 1.40GHz		3,441	\$281.00*	
	Intel Pentium Silver N5020 @ 1.10GHz		3,404	NA	
	Intel Celeron N5100 @ 1.10GHz		3,348	NA	
	Intel Core i3-10110Y @ 1.00GHz		3,256	\$287.00*	
	AMD Athlon Gold 3150C		3,205	NA	
	AMD Ryzen Embedded R1305G		3,109	NA	
	AMD Ryzen 3 3250C		3,044	NA	
	AMD Athlon Silver 3050U		3,041	NA	
	AMD Athlon Silver 3050e		2,952	NA	
	AMD A6-9400		2,717	NA	
	Intel Pentium Silver N5030 @ 1.10GHz		2,665	NA	
	Intel Celeron 7305		2,665	\$107.00*	
	AMD 3015e		2,661	NA	
	Intel Celeron N4120 @ 1.10GHz		2,511	NA	
	AMD 3020e		2,470	NA	
	Intel Pentium 6405U @ 2.40GHz		2,370	\$161.00*	
	Intel Celeron 6305 @ 1.80GHz		2,120	NA	
	Intel Celeron 4305UE @ 2.00GHz		1,876	NA	
	Intel Pentium 4425Y @ 1.70GHz		1,732	\$161.00*	
	Intel Celeron N4020C @ 1.10GHz		1,652	NA	
	Intel Celeron N4020 @ 1.10GHz		1,569	NA	
	Intel Celeron 5205U @ 1.90GHz		1,448	\$107.00*	
	Intel Celeron N4000C @ 1.10GHz		1,360	NA	
	Intel Pentium A1020 @ 2.41GHz		1,290	NA	
	Intel Celeron 1020M @ 2.10GHz		1,275	NA	
	AMD R-272F APU		1,215	NA	
	AMD PRO A4-4350B		1,109	NA	
	Intel Pentium Dual T2390 @ 1.86GHz		745	NA	

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