

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.



	CPU Mark	Price Performance	Sorted by Date
CPU			
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	CPU Mark	Price (USD)
	AMD Ryzen 9 4900HS	19.838	NA
	AMD Ryzen 9 4900H	19.595	NA
	AMD Ryzen 7 4800H	19.303	NA
	AMD Ryzen 7 4800HS	18.989	NA
	AMD Ryzen 7 Extreme Edition	18.284	NA
	AMD Ryzen 7 4800U	17.267	NA
	Intel Core i9-10980HK @ 2.40GHz	17.255	\$583.00*
	Intel Xeon W-10885M @ 2.40GHz	17.240	\$623.00*
	Intel Core i9-10885H @ 2.40GHz	16.116	\$556.00*
	Intel Core i7-10875H @ 2.30GHz	15.964	\$450.00*
	AMD Ryzen 7 PRO 4750U	15.696	NA
	Intel Xeon E-2286M @ 2.40GHz	15.573	\$623.00*
	Intel Core i9-9980HK @ 2.40GHz	15.316	\$583.00*
	Intel Core i9-10880H @ 2.30GHz	15.137	NA
	AMD Ryzen 5 4600HS	15.019	NA
	AMD Ryzen 5 4600H	14.996	NA
	AMD Ryzen 5 4600U	14.429	NA
	Intel Core i9-9880H @ 2.30GHz	14.116	\$556.00*
	AMD Ryzen 7 4700U	13.853	NA

PassMark - CPU Mark

Laptop & Portable CPU Performance

Updated 14th of October 2020



Search Model		Intel Core i7-10850H @ 2.70GHz	13.120	\$395.00*
CPU Benchmarks Compare	Video	AMD Ryzen 5 PRO 4650U	12.948	NA
		Intel Core i7-10750H @ 2.60GHz	12.682	NA
		Intel Xeon E-2276M @ 2.80GHz	12.310	\$450.00*
		Intel Core i7-1165G7 @ 2.80GHz	12.308	\$426.00*
Common	Card Benchmarks	Intel Core i7-8700B @ 3.20GHz	12.286	\$303.00*
		AMD Ryzen 5 PRO 4500U	12.049	NA
		Intel Xeon E-2186M @ 2.90GHz	11.835	\$623.00*
		Intel Core i7-9750HF @ 2.60GHz	11.826	\$395.00*
Most Benchmarked	Hard Drive Benchmarks	Intel Core i7-9850H @ 2.60GHz	11.656	\$395.00*
		Intel Core i7-9750H @ 2.60GHz	11.378	\$395.00*
		AMD Ryzen 5 4500U	11.266	NA
		Intel Core i9-8950HK @ 2.90GHz	10.763	\$583.00*
AMD vs Intel Market Share	RAM	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 i7-8850H @ 2.60GHz	10.497	\$395.00*
Year on Year Performance	PC Systems	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	10.028	\$598.95
<div><div><div>Najlepsze granie na komputerach z Windows 10</div><div>GAMINGOWA PROMOCJA</div><div>WEJDŹ DO CYBER ŚWIATA</div><div>DELL G3 Z PROCESOREM INTEL® CORE™ DZIESIĄTEJ GENERACJI</div><div>mediaexpert</div><div>Zobacz więcej</div><div><div>intel</div><div>CORE i5</div><div>intel</div><div>CORE i9</div><div>intel</div><div>CORE i7</div></div><div>Windows 10</div></div></div>	Android	Intel Core i5-1038NG7 @ 2.00GHz	9.907	\$320.00*
		Intel Core i5-9400F @ 2.90GHz	9.598	\$139.99
		Intel Core i5-8500B @ 3.00GHz	9.538	\$192.00*
		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	9.186	\$443.00*
		Intel Core i7-9850HL @ 1.90GHz	9.112	\$395.00*
		Intel Core i7-1065G7 @ 1.30GHz	8.997	\$426.00*
		Intel Core i5-10400H @ 2.60GHz	8.936	\$250.00*
		Intel Core i5-10300H @ 2.50GHz	8.922	\$250.00*
		Intel Core i7-8559U @ 2.70GHz	8.892	\$644.63
		Intel Core i7-8809G @ 3.10GHz	8.779	NA
		Intel Core i5-1035G7 @ 1.20GHz	8.495	\$320.00*
		AMD Ryzen 7 3750H	8.439	NA
		Intel Core i5-1135G7 @ 2.40GHz	8.357	\$309.00*
		Intel Core i5-8259U @ 2.30GHz	8.273	\$604.00
		Intel Core i5-1035G4 @ 1.10GHz	8.241	\$309.00*
		Intel Core i5-8257U @ 1.40GHz	8.227	\$320.00*
		Intel Core i5-9400H @ 2.50GHz	8.195	\$250.00*
		AMD Ryzen 5 3550H	8.159	NA
		Intel Core i5-8400H @ 2.50GHz	8.146	\$250.00*
		Intel Core i7-8706G @ 3.10GHz	8.136	NA
		AMD Ryzen Embedded V1807B	8.095	NA
		AMD Ryzen 5 3580U	8.065	NA
		Intel Core i7-8705G @ 3.10GHz	7.996	\$1.535.11*
		Intel Core i5-1035G1 @ 1.00GHz	7.992	\$297.00*
		Intel Core i5-9300H @ 2.40GHz	7.987	\$250.00*
		Intel Core i7-8709G @ 3.10GHz	7.921	NA

CPU Benchmarks	Video Card Benchmarks	Intel Core i7-8557U @ 1.70GHz	7.820	\$431.00*
		Intel Core i5-9300HF @ 2.40GHz	7.799	\$250.00*
		Intel Core i5-8260U @ 1.60GHz	7.776	\$297.00*
		AMD Ryzen 3 4300U	7.752	NA
Hard Drive Benchmarks	RAM	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	7.514	\$250.00*
PC Systems	Android	Intel Core i7-10610U @ 1.80GHz	7.379	\$409.00*
		AMD Ryzen 7 PRO 3700U	7.352	NA
		AMD Ryzen 7 3700U	7.340	NA
		AMD Ryzen 7 PRO 2700U	7.242	NA
iOS / iPhone		AMD Ryzen 7 3780U	7.203	NA
		AMD Ryzen 5 3500U	7.150	NA
		AMD Ryzen 3 PRO 3200GE	7.113	NA
		Intel Core i5-8305G @ 2.80GHz	7.073	NA
		Intel Core i7-10510U @ 1.80GHz	7.069	\$409.00*
		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	6.985	NA
		Intel Core i3-8100B @ 3.60GHz	6.829	\$133.00*
		AMD Ryzen Embedded V1605B	6.812	NA
		Intel Core i5-10310U @ 1.70GHz	6.798	\$297.00*
		AMD Ryzen 5 2500U	6.642	NA
		Intel Core i7-8665U @ 1.90GHz	6.626	\$696.84
		AMD Ryzen 7 2700U	6.602	NA
		Intel Xeon E3-1268L v5 @ 2.40GHz	6.600	\$456.54*
		Intel Core i7-8665UE @ 1.70GHz	6.587	\$409.00*
		Intel Core i5-10210U @ 1.60GHz	6.503	\$499.95
		AMD Ryzen 5 PRO 2500U	6.502	NA
		Intel Core i7-8565U @ 1.80GHz	6.477	NA
		Intel Core i5-8350U @ 1.70GHz	6.456	\$297.00*
		Intel Core i5-8365U @ 1.60GHz	6.373	\$634.95
		Intel Core i5-8265U @ 1.60GHz	6.244	\$749.00
		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 3300U	5.886	NA
		AMD Ryzen 3 PRO 2300U	5.868	NA
		Intel Core i7-10510Y @ 1.20GHz	5.523	\$403.00*
		AMD Ryzen 3 2300U	5.345	NA
		Intel Core i5-1030NG7 @ 1.10GHz	5.331	NA
		Intel Core i3-1005G1 @ 1.20GHz	5.247	\$281.00*
		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	\$100.30

CPU Benchmarks	Video	Intel Core i3-8121U @ 2.20GHz	4.340	\$290.00
		AMD Ryzen 3 3250U	4.338	NA
		Intel Core i3-1000NG4 @ 1.10GHz	4.326	NA
		AMD Athlon Gold 3150U	4.166	NA
Card Benchmarks	Hard Drive Benchmarks	Intel Core i5-7287U @ 3.30GHz	4.149	NA
		Intel Core i3-8145UE @ 2.20GHz	4.140	\$281.00*
		AMD Athlon 300U	4.120	NA
		Intel Core i3-10110U @ 2.10GHz	4.079	\$414.95
RAM	PC Systems	AMD Ryzen 3 3200U	4.072	NA
		AMD Ryzen Embedded R1505G	3.904	NA
		Intel Core i3-8145U @ 2.10GHz	3.763	\$281.00*
		AMD Ryzen Embedded V1202B	3.734	NA
Android	iOS / iPhone	Intel Core i3-8130U @ 2.20GHz	3.665	\$281.00*
		Intel Core i5-6287U @ 3.10GHz	3.655	\$304.00*
		Intel Core i3-10110Y @ 1.00GHz	3.639	\$287.00*
		AMD Ryzen 3 2200U	3.638	NA
RAM	PC Systems	AMD A8-7680	3.558	\$50.08*
		Intel Core i3-7167U @ 2.80GHz	3.489	NA
		Intel Core i3-7100H @ 3.00GHz	3.460	\$225.00*
		AMD Embedded R-Series RX-418GD Radeon R6	3.426	NA
Card Benchmarks	Hard Drive Benchmarks	AMD Athlon Silver 3050U	3.238	NA
		Intel Core i7-8500Y @ 1.50GHz	3.191	\$393.00*
		Intel Core i5-L16G7 @ 1.40GHz	3.164	\$281.00*
		Intel Core m3-8100Y @ 1.10GHz	3.033	\$281.00*
RAM	PC Systems	Intel Core i3-7130U @ 2.70GHz	3.021	\$459.99*
		Intel Core i5-8210Y @ 1.60GHz	2.905	NA
		AMD A6-9400	2.717	NA
		AMD 3015e	2.678	NA
Card Benchmarks	Hard Drive Benchmarks	AMD 3020e	2.669	NA
		AMD PRO A10-9700B	2.626	NA
		Intel Pentium Silver N5000 @ 1.10GHz	2.595	\$161.00*
		Intel Pentium Silver N5030 @ 1.10GHz	2.564	NA
RAM	PC Systems	Intel Core i3-7020U @ 2.30GHz	2.563	\$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
Card Benchmarks	Hard Drive Benchmarks	Intel Pentium 6405U @ 2.40GHz	2.430	\$161.00*
		Intel Core i3-6102E @ 1.90GHz	2.349	\$225.00*
		Intel Pentium 5405U @ 2.30GHz	2.318	\$161.00*
		Intel Core i5-8200Y @ 1.30GHz	2.308	\$291.00*
RAM	PC Systems	Intel Pentium 4417U @ 2.30GHz	2.284	\$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
Card Benchmarks	Hard Drive Benchmarks	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

CPU Benchmarks	Video Card Benchmarks	Intel Pentium 4415Y @ 1.60GHz	1.649	\$161.00*
		Intel Celeron N4020 @ 1.10GHz	1.636	NA
		Intel Celeron N4000C @ 1.10GHz	1.579	NA
Hard Drive Benchmarks	RAM	Intel Celeron 3965U @ 2.20GHz	1.579	\$107.00*
		AMD A9-9425	1.564	NA
		Intel Pentium 4425Y @ 1.70GHz	1.544	\$161.00*
PC Systems	Android	Intel Celeron 3867U @ 1.80GHz	1.467	\$107.00*
		Intel Celeron N4000 @ 1.10GHz	1.462	\$107.00*
		Intel Celeron 5205U @ 1.90GHz	1.451	\$107.00*
iOS / iPhone		Intel Pentium 4410Y @ 1.50GHz	1.387	\$161.00*
		AMD A6-9225	1.350	NA
		Intel Atom T5700 @ 1.70GHz	1.326	NA
		Intel Celeron 1020M @ 2.10GHz	1.275	NA
		AMD A6-9220C	1.273	NA
		AMD Embedded G-Series GX-224IJ Radeon R4E	1.271	NA
		AMD A4-9125	1.267	NA
		Intel Pentium A1020 @ 2.41GHz	1.265	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	1.169	NA
		Intel Celeron 2002E @ 1.50GHz	1.091	\$86.00*
		Intel Atom C2538 @ 2.40GHz	1.086	\$104.00*
		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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