

CPU Benchmarks

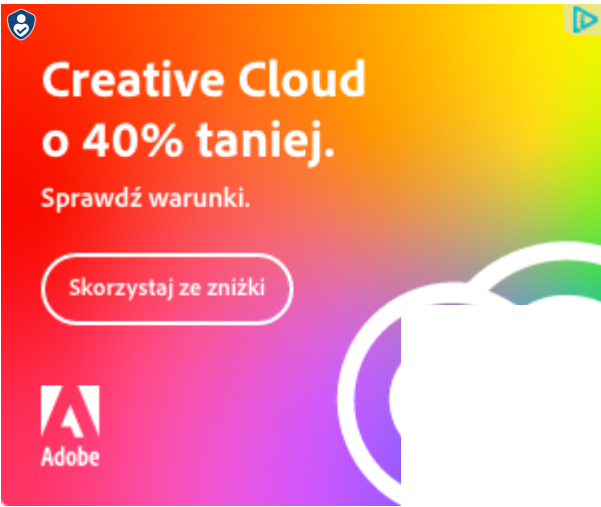
Over 1,000,000 CPUs Benchmarked

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

CPU Mark	Price Performance	Sorted by Date
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-  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
- Top Gaming CPUs

 CPU Mega List

PassMark - CPU Mark

Laptop & Portable CPU Performance
Updated 12th of April 2023

CPU	CPU Mark	Price (USD)
AMD Ryzen 9 7945HX	59,086	NA
Intel Core i9-13980HX	48,925	\$668.00*
AMD Ryzen 9 7845HX	46,816	NA
Intel Core i9-13900HX	46,795	\$668.00*
Intel Core i9-13950HX	45,237	\$590.00*
Intel Core i7-13850HX	38,473	\$428.00*
Intel Core i9-12900HX	35,570	\$606.00*
Intel Core i7-13650HX	33,786	\$485.00*
Intel Core i7-12800HX	33,554	\$457.00*
Intel Core i7-13700HX	33,533	\$485.00*
Intel Core i9-12950HX	33,001	\$590.00*
Intel Core i9-13900H	31,921	\$617.00*
Intel Core i7-13700H	30,692	\$502.00*
Intel Core i7-12850HX	30,485	\$428.00*
Intel Core i9-12900H	28,994	\$617.00*
Intel Core i9-12900HK	28,565	\$635.00*
AMD Ryzen 7 7840HS	28,429	NA
Intel Core i7-13620H	27,931	\$502.00*
Intel Core i7-13800H	26,733	\$457.00*
Intel Core i7-12700H	26,674	\$457.00*
Apple M2 Pro 12 Core 3480 MHz	26,485	NA

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CPU Benchmarks

Star

Common

Most Benchmarked

Line Chart

AMD vs Intel Market Share

Year on Year Performance

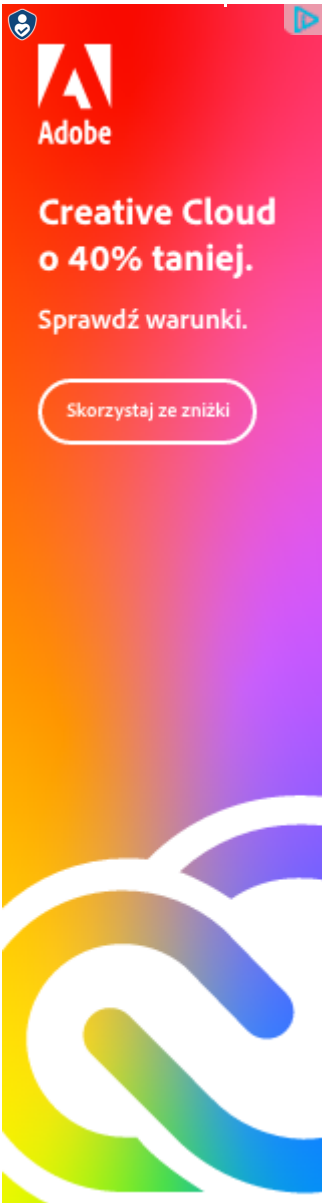
Apple M2 Max 12 Core 3680 MHz	26,146	NA
AMD Rvzen 7 7735H	25.496	NA
AMD Ryzen 7 7735HS	24,776	NA
Intel Core i7-12800H	24,712	\$457.00*
Intel Core i7-12650H	24,377	\$457.00*
Intel Core i5-12600HX	24,128	\$284.00*
Intel Core i5-13500H	24,074	NA
AMD Ryzen 9 6900HS	24,023	NA
AMD Ryzen 7 7736U	23,860	NA
AMD Ryzen 9 5980HX	23,815	NA
AMD Ryzen 7 6800H	23,765	NA
Intel Core i9-11980HK @ 2.60GHz	23,318	\$583.00*
AMD Ryzen 7 PRO 6850H	23,309	NA
AMD Ryzen 9 PRO 6950HS	23,295	NA
AMD Ryzen 7 6800HS Creator Edition	23,065	NA
Intel Xeon W-11955M @ 2.60GHz	23,013	\$623.00*
AMD Ryzen 7 6800HS	23,008	NA
Intel Core i5-12600H	22,998	\$311.00*
AMD Ryzen 9 5900HX	22,854	NA
Intel Core i7-1370P	22,664	NA
AMD Ryzen 9 PRO 6950H	22,544	NA
AMD Ryzen 9 6900HS Creator Edition	22,399	NA
Apple M1 Max 10 Core 3200 MHz	22,126	NA
AMD Ryzen 9 5900HS	22,015	NA
Apple M1 Pro 10 Core 3200 MHz	21,919	NA
AMD Ryzen 7 PRO 6850HS	21,910	NA
Apple M2 Pro 10 Core 3480 MHz	21,727	NA
Intel Core i9-11950H @ 2.60GHz	21,689	\$556.00*
Intel Core i5-12500H	21,630	\$311.00*
Intel Core i7-1360P	21,322	\$480.00*
AMD Ryzen 7 5800H	21,291	NA
AMD Ryzen 7 5800HS Creator Edition	21,166	NA
Intel Core i9-11900H @ 2.50GHz	21,130	\$546.00*
AMD Ryzen 7 PRO 6860Z	21,098	NA
AMD Ryzen 9 5980HS	21,058	NA
AMD Ryzen 7 PRO 6850U	20,987	NA
Intel Core i7-11800H @ 2.30GHz	20,973	\$395.00*
AMD Ryzen 9 5900H	20,960	NA
Intel Core i7-11850H @ 2.50GHz	20,868	\$395.00*
AMD Ryzen 7 6800U	20,631	NA
AMD Ryzen 7 5800HS	20,600	NA
Intel Core i7-1280P	20,373	\$482.00*
Intel Core i5-1340P	20,197	\$353.00*
AMD Ryzen 5 PRO 6650H	20,103	NA
Intel CoreT i7-1360P	19,618	\$480.00*
Intel Core i5-1250P	19,526	NA
AMD Ryzen 7 7730U	19,370	NA
AMD Ryzen 9 4900H	19,299	NA

AMD Ryzen 5 6600HS Creator Edition	19,129	NA
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AMD Ryzen 7 4800HS	18,675	NA
Intel Core i5-1345U	18,673	\$309.00*
AMD Ryzen 7 5825U	18,584	NA
Intel Xeon W-11855M @ 3.20GHz	18,359	\$450.00*
AMD Ryzen 7 Extreme Edition	18,185	NA
Intel Core i5-12450H	18,059	\$311.00*
Intel Core i7-1270P	17,500	NA
AMD Ryzen 7 4980U Microsoft Surface Edition	17,469	NA
Intel Core i5-1240P	17,446	NA
AMD Ryzen 7 PRO 5850U	17,376	NA
Intel Core i7-1260P	17,375	NA
AMD Ryzen 5 6600U	17,291	NA
AMD Ryzen 5 5600H	17,186	NA
Apple M1 Pro 8 Core 3200 MHz	17,181	NA
Intel Core i5-1335U	17,000	\$340.00*
AMD Ryzen 7 4800U	16,976	NA
AMD Ryzen 5 PRO 6650U	16,762	NA
Intel Core i5-12500TE	16,584	\$205.00*
AMD Ryzen 5 7530U	16,574	NA
Intel Core i7-10700E @ 2.90GHz	16,418	\$330.00*
AMD Ryzen 7 PRO 5875U	16,349	NA
Intel Core i7-10700TE @ 2.00GHz	16,332	\$330.00*
Intel Core i5-11500H @ 2.90GHz	16,081	\$250.00*
Intel Xeon W-10885M @ 2.40GHz	15,923	\$623.00*
AMD Ryzen 7 4850U Mobile	15,920	NA
Intel Core i5-11400H @ 2.70GHz	15,917	\$250.00*
Intel Core i9-10980HK @ 2.40GHz	15,895	\$583.00*
AMD Ryzen 7 5700U	15,861	NA
Intel Core i7-11600H @ 2.90GHz	15,847	\$395.00*
Intel Core i5-11260H @ 2.60GHz	15,707	\$250.00*
AMD Ryzen 5 5600U	15,421	NA
Intel Core i9-10885H @ 2.40GHz	15,408	\$556.00*
Apple M2 8 Core 3500 MHz	15,365	NA
AMD Ryzen 7 PRO 4750U	15,266	NA
AMD Ryzen 5 5560U	15,233	NA
Intel Core i7-10875H @ 2.30GHz	15,230	\$450.00*
AMD Ryzen 5 5625U	15,098	NA
AMD Ryzen 5 PRO 5650U	15,068	NA
Intel Core i7-1365U	15,058	\$426.00*
Intel Core i7-10870H @ 2.20GHz	14,804	\$417.00*
AMD Ryzen 5 PRO 4400GE	14,795	NA
Intel Core i9-10880H @ 2.30GHz	14,736	NA
AMD Ryzen 5 4600H	14,648	NA
AMD Ryzen 5 PRO 5675U	14,639	NA
AMD Ryzen 5 4600HS	14,477	NA
Intel Core i5-1240U	14,323	NA

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Intel Core i3-1220P	14,292	\$281.00*
Apple M1 8 Core 3200 MHz	14,177	NA
Intel Core i7-1265U	13,845	\$426.00*
Intel Core i5-1235U	13,679	\$309.00*
AMD Ryzen 7 4700U	13,507	NA
AMD Ryzen 5 4600U	13,500	NA
Intel Core i5-1245U	13,411	\$309.00*
Intel Core i7-1250U	13,336	\$426.00*
AMD Ryzen 5 5500U	13,171	NA
Intel Core i7-1260U	13,046	NA
Intel Core i3-12100TE	12,961	\$125.00*
Intel Xeon W-10855M @ 2.80GHz	12,908	\$450.00*
AMD Ryzen 3 PRO 7330U	12,862	NA
AMD Ryzen 5 PRO 4650U	12,786	NA
Intel Core i7-11375H @ 3.30GHz	12,412	\$482.00*
Intel Core i7-12700TE	12,270	\$344.00*
AMD Ryzen 5 PRO 4500U	12,049	NA
Intel Core i7-10850H @ 2.70GHz	12,000	\$395.00*
Snapdragon 8cx Gen 3 @ 3.0 GHz	11,906	NA
AMD Ryzen 3 7330U	11,856	NA
Intel Core i7-11370H @ 3.30GHz	11,843	\$426.00*
AMD Ryzen 3 5425U	11,613	NA
Intel Core i5-10500H @ 2.50GHz	11,504	\$250.00*
AMD Ryzen 3 5400U	11,492	NA
Intel Core i3-1315U	11,435	\$309.00*
Intel Core i3-1215U	11,372	NA
AMD Ryzen 3 PRO 5475U	11,323	NA
Intel Core i3-1210U	11,087	NA
Intel Core i7-1195G7 @ 2.90GHz	11,074	\$426.00*
AMD Ryzen 5 4500U	11,045	NA
Intel Core i5-11300H @ 3.10GHz	11,029	\$309.00*
AMD Ryzen 3 PRO 5450U	11,010	NA
Intel Core i5-11320H @ 3.20GHz	10,999	\$309.00*
AMD Ryzen 3 PRO 4200GE	10,930	NA
Intel Core i5-1230U	10,859	\$309.00*
Intel Core i7-1185G7 @ 3.00GHz	10,628	\$426.00*
Intel Core i7-1265UE	10,573	\$472.00*
Intel Core i7-11390H @ 3.40GHz	10,573	\$426.00*
Intel Core i3-N305	10,448	\$309.00*
Intel Core i7-1185G7E @ 2.80GHz	10,444	\$431.00*
Intel Core i7-1165G7 @ 2.80GHz	10,415	\$426.00*
Intel Core i5-1155G7 @ 2.50GHz	10,295	\$309.00*
AMD Ryzen 3 PRO 4450U	10,096	NA
Intel Core i5-1145G7 @ 2.60GHz	10,060	NA
Intel Core i5-1135G7 @ 2.40GHz	9,971	\$309.00*
Intel Core i5-10500TE @ 2.30GHz	9,960	\$195.00*
AMD Ryzen 3 5300U	9,936	NA
Intel Core i3-1125G4 @ 2.00GHz	9,890	NA
Intel Core i7-1068NG7 @ 2.30GHz	9,848	\$426.00*

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AMD Ryzen 5 7520U	9,706	NA
Intel Core i5-1038NG7 @ 2.00GHz	9,350	\$320.00*
Intel Core i7-1160G7 @ 1.20GHz	9,160	\$426.00*
Intel Core i5-9500TE @ 2.20GHz	9,028	\$192.00*
Intel Pentium Gold 8505	8,935	NA
Intel Core i5-1130G7 @ 1.10GHz	8,822	\$309.00*
Intel Core i5-10400H @ 2.60GHz	8,716	\$250.00*
Intel Core i7-1180G7 @ 1.30GHz	8,466	\$426.00*
Intel Core i5-10200H @ 2.40GHz	8,316	\$250.00*
Intel Core i7-10810U @ 1.10GHz	8,168	\$443.00*
AMD Athlon Gold PRO 4150GE	8,070	NA
Intel Core i5-8269U @ 2.60GHz	8,055	\$320.00*
Intel Core i5-8260U @ 1.60GHz	7,747	\$439.99*
Intel Core i5-9300HF @ 2.40GHz	7,523	\$250.00*
Intel Core i3-10100T @ 3.00GHz	7,332	\$122.00*
AMD Ryzen 7 3700C	7,145	NA
Intel Core i7-10610U @ 1.80GHz	6,903	\$409.00*
AMD Ryzen 5 3450U	6,790	NA
Intel Core i7-1060NG7 @ 1.20GHz	6,739	NA
Snapdragon 8cx Gen 2 @ 3.0 GHz	6,733	NA
Snapdragon 8cx Gen 2 @ 3.15 GHz	6,511	NA
Intel Core i5-10310U @ 1.70GHz	6,505	\$297.00*
Intel Core i7-8565UC @ 1.80GHz	6,187	NA
Intel Core i3-1115G4 @ 3.00GHz	6,180	\$281.00*
AMD Ryzen 3 3350U	5,889	NA
Intel Core i5-7440EQ @ 2.90GHz	5,711	\$250.00*
Intel N95	5,451	NA
Intel Pentium Silver N6005 @ 2.00GHz	5,407	NA
AMD Ryzen 5 3500C	5,372	NA
Intel Pentium Gold 7505 @ 2.00GHz	5,285	NA
Snapdragon 8c @ 2.46 GHz	5,230	NA
Intel Core i7-10510Y @ 1.20GHz	5,100	\$403.00*
Snapdragon 8cx @ 2.84 GHz	4,660	NA
AMD Athlon Silver 3050GE	4,545	NA
Intel Core i3-9100TE @ 2.20GHz	4,501	\$122.00*
Intel Pentium 6805 @ 1.10GHz	4,424	\$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	4,074	\$281.00*
AMD Athlon PRO 300U	4,074	NA
AMD Athlon Gold 3150U	4,016	NA
AMD Ryzen 3 3250U	3,895	NA
Intel Core i3-1000NG4 @ 1.10GHz	3,781	NA
Snapdragon 7c Gen 2 @ 2.55 GHz	3,638	NA
Snapdragon 7c @ 1.96 GHz	3,457	NA
Intel Core i5-L16G7 @ 1.40GHz	3,447	\$281.00*
Intel Pentium Silver N5020 @ 1.10GHz	3,404	NA
Intel Celeron N5100 @ 1.10GHz	3,374	NA

AMD Athlon Gold 3150C	3,292	NA
Intel Core i3-10110Y @ 1.00GHz	3,269	\$287.00*
Intel Core i3-6167U @ 2.70GHz	3,156	NA
Snapdragon 7c @ 2.40 GHz	3,074	NA
AMD Athlon Silver 3050e	3,031	NA
AMD Ryzen Embedded R1305G	3,003	NA
AMD Athlon Silver 3050U	2,999	NA
Snapdragon 850 @ 2.96 GHz	2,940	NA
AMD 3015e	2,709	NA
AMD 3020e	2,448	NA
Intel Pentium 6405U @ 2.40GHz	2,327	\$161.00*
Intel Celeron 7305	2,189	\$107.00*
Intel Celeron 6305 @ 1.80GHz	2,071	NA
Snapdragon 835	1,905	NA
Intel Pentium 4425Y @ 1.70GHz	1,715	\$161.00*
Intel Celeron N4020C @ 1.10GHz	1,606	NA
AMD Athlon PRO 3045B	1,487	NA
Intel Pentium Dual T2390 @ 1.86GHz	745	NA
AMD E2-7015	572	NA

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