

[CPU Benchmarks](#)[Video Card Benchmarks](#)[Hard Drive Benchmarks](#)[RAM](#)[PC Systems](#)[Android](#)[iOS / iPhone](#)

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
PassMark - CPU Mark			
Laptop & Portable CPU Performance			
Updated 26th of August 2022			
CPU	CPU Mark	Price (USD)	
Intel Core i7-12800HX	36.481	\$457.00*	
Intel Core i9-12900HX	35.154	\$606.00*	
Intel Core i9-12950HX	34.603	\$590.00*	
Intel Core i7-12850HX	31.230	\$428.00*	
Intel Core i9-12900HK	29.706	\$635.00*	
Intel Core i9-12900H	29.070	\$617.00*	
Intel Core i7-12700H	27.020	\$457.00*	
AMD Ryzen 9 6900HX	24.930	NA	
Intel Core i5-12600HX	24.689	\$284.00*	
Intel Core i7-12650H	24.650	\$457.00*	
AMD Ryzen 9 PRO 6950H	24.464	NA	
AMD Ryzen 7 PRO 6850H	24.325	NA	
AMD Ryzen 9 6900HS	24.298	NA	
Intel Core i7-12800H	23.935	\$457.00*	
AMD Ryzen 9 PRO 6950HS	23.843	NA	
Intel Core i9-11980HK @ 2.60GHz	23.460	\$583.00*	
AMD Ryzen 7 6800HS Creator Edition	23.418	NA	
AMD Ryzen 7 6800HS	23.416	NA	
Intel Xeon W-11955M @ 2.60GHz	23.346	\$623.00*	
AMD Ryzen 7 6800H	23.171	NA	
AMD Ryzen 9 5900HX	23.033	NA	
AMD Ryzen 9 5980HX	22.948	NA	
Intel Core i9-11950H @ 2.60GHz	22.378	\$556.00*	
Apple M1 Max 10 Core 3200 MHz	22.310	NA	
Intel Core i5-12600H	22.201	\$311.00*	
AMD Ryzen 9 5900HS	22.172	NA	
Apple M1 Pro 10 Core 3200 MHz	22.085	NA	
Intel Core i5-12500H	21.572	\$311.00*	
AMD Ryzen 7 PRO 6850U	21.543	NA	
AMD Ryzen 9 5980HS	21.491	NA	
AMD Ryzen 7 5800H	21.370	NA	
AMD Ryzen 7 6800U	21.358	NA	
Intel Core i7-11800H @ 2.30GHz	21.183	\$395.00*	
Intel Core i7-11850H @ 2.50GHz	21.154	\$395.00*	
Intel Core i9-11900H @ 2.50GHz	21.153	\$546.00*	

PassMark CPU Benchmarks - New Laptop CPUs Performance

CPU Benchmarks	Video Card Benchmarks	Hard Drive Benchmarks	RAM	PC Systems	Android	iOS / iPhone
AMD Ryzen 9 5900H				20,960	NA	
AMD Ryzen 7 5800HS Creator Edition				20,948	NA	
AMD Ryzen 7 5800HS				20,677	NA	
Intel Core i5-1250P				20,636	NA	
AMD Ryzen 5 6600H				20,179	NA	
AMD Ryzen 5 PRO 6650H				20,103	NA	
AMD Ryzen 7 PRO 6850HS				20,062	NA	
Intel Core i7-1280P				19,927	\$482.00*	
AMD Ryzen 9 4900HS				19,350	NA	
AMD Ryzen 9 4900H				19,325	NA	
AMD Ryzen 7 4800H				18,957	NA	
AMD Ryzen 7 5800U				18,827	NA	
AMD Ryzen 7 4800HS				18,821	NA	
Intel Xeon W-11855M @ 3.20GHz				18,604	\$450.00*	
Intel Core i5-12450H				18,369	\$311.00*	
AMD Ryzen 7 5825U				18,329	NA	
AMD Ryzen 7 Extreme Edition				18,192	NA	
Intel Core i7-1270P				18,140	NA	
Intel Core i3-1220P				18,058	\$281.00*	
Intel Core i5-1240P				17,345	NA	
AMD Ryzen 7 PRO 5850U				17,342	NA	
Apple M1 Pro 8 Core 3200 MHz				17,306	NA	
AMD Ryzen 5 6600U				17,257	NA	
Intel Core i7-1260P				17,203	NA	
AMD Ryzen 5 5600H				17,111	NA	
AMD Ryzen 5 5560U				17,084	NA	
AMD Ryzen 5 PRO 6650U				17,032	NA	
AMD Ryzen 7 4800U				17,017	NA	
Intel Core i5-12500TE				16,865	\$205.00*	
AMD Ryzen 7 PRO 5875U				16,861	NA	
Intel Core i7-10700TE @ 2.00GHz				16,332	\$330.00*	
Intel Core i7-10700E @ 2.90GHz				16,257	\$330.00*	
Intel Core i5-11500H @ 2.90GHz				16,133	\$250.00*	
Intel Core i9-10980HK @ 2.40GHz				16,089	\$583.00*	
Intel Xeon W-10885M @ 2.40GHz				16,080	\$623.00*	
Intel Core i5-11400H @ 2.70GHz				15,962	\$250.00*	
AMD Ryzen 7 5700U				15,931	NA	
AMD Ryzen 7 4850U Mobile				15,920	NA	
Intel Core i7-11600H @ 2.90GHz				15,907	\$395.00*	
Intel Core i9-10885H @ 2.40GHz				15,564	\$556.00*	
Intel Core i5-11260H @ 2.60GHz				15,447	\$250.00*	
AMD Ryzen 7 PRO 4750U				15,414	NA	
Intel Core i7-10875H @ 2.30GHz				15,373	\$450.00*	
AMD Ryzen 5 5600U				15,368	NA	
Apple M2 8 Core 3500 MHz				15,367	NA	
AMD Ryzen 5 PRO 5650U				15,152	NA	
Intel Core i7-10870H @ 2.20GHz				14,903	\$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				14,706	NA	
Apple M1 8 Core 3200 MHz				14,509	NA	
AMD Ryzen 5 5625U				14,420	NA	
AMD Ryzen 5 PRO 5675U				13,828	NA	
Intel Core i5-1235U				13,823	\$309.00*	
AMD Ryzen 7 4700U				13,598	NA	
AMD Ryzen 5 4600U				13,484	NA	
Intel Core i7-1255U				13,356	\$426.00*	
AMD Ryzen 5 5500U				13,182	NA	
Intel Core i7-1265U				13,047	\$426.00*	
Intel Core i3-12100TE				12,961	\$125.00*	
Intel Xeon W-10855M @ 2.80GHz				12,906	\$450.00*	
AMD Ryzen 5 PRO 4650U				12,836	NA	
Intel Core i7-10700H @ 2.90GHz				12,820	\$400.00*	

PassMark CPU Benchmarks - New Laptop CPUs Performance

CPU Benchmarks	Video Card Benchmarks	Hard Drive Benchmarks	RAM	PC Systems	Android	iOS / iPhone
Intel Core i7-11370H @ 3.30GHz				12.313	\$482.00*	
Intel Core i7-10750H @ 2.60GHz				12.267	NA	
Intel Core i7-10850H @ 2.70GHz				12.154	\$395.00*	
AMD Ryzen 5 PRO 4500U				12.049	NA	
Intel Core i7-11370H @ 3.30GHz				11.942	\$426.00*	
AMD Ryzen 3 5400U				11.828	NA	
Intel Core i5-10500H @ 2.50GHz				11.626	\$250.00*	
Intel Core i3-1215U				11.618	NA	
AMD Ryzen 3 PRO 5450U				11.563	NA	
Intel Core i7-9750HF @ 2.60GHz				11.159	\$395.00*	
AMD Ryzen 5 4500U				11.072	NA	
Intel Core i5-11300H @ 3.10GHz				11.030	\$309.00*	
Intel Core i7-1195G7 @ 2.90GHz				10.944	\$426.00*	
AMD Ryzen 3 PRO 4200GE				10.930	NA	
Intel Core i7-9700TE @ 1.80GHz				10.826	\$323.00*	
Intel Core i7-1185G7 @ 3.00GHz				10.824	\$426.00*	
Intel Core i5-11320H @ 3.20GHz				10.708	\$309.00*	
Intel Core i7-1250U				10.659	\$426.00*	
Intel Core i7-11390H @ 3.40GHz				10.559	\$426.00*	
Intel Core i7-1165G7 @ 2.80GHz				10.503	\$426.00*	
Intel Core i5-1145G7 @ 2.60GHz				10.210	NA	
AMD Ryzen 3 5425U				10.203	NA	
AMD Ryzen 3 PRO 4450U				10.169	NA	
Intel Core i5-1135G7 @ 2.40GHz				10.067	\$309.00*	
Intel Core i5-1155G7 @ 2.50GHz				10.057	\$309.00*	
Intel Core i7-1068NG7 @ 2.30GHz				10.050	\$426.00*	
Intel Core i7-1185G7E @ 2.80GHz				9.980	\$431.00*	
Intel Core i7-10710U @ 1.10GHz				9.968	\$644.99*	
Intel Core i5-10500TE @ 2.30GHz				9.960	\$195.00*	
AMD Ryzen 3 5300U				9.953	NA	
Intel Core i3-1125G4 @ 2.00GHz				9.939	NA	
Intel Core i5-1230U				9.896	\$309.00*	
Intel Core i5-1038NG7 @ 2.00GHz				9.628	\$320.00*	
Intel Core i7-1160G7 @ 1.20GHz				9.520	\$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				8.646	\$250.00*	
Intel Core i5-1035G7 @ 1.20GHz				8.517	\$320.00*	
Intel Core i7-1180G7 @ 1.30GHz				8.514	\$426.00*	
Intel Core i7-8569U @ 2.80GHz				8.451	\$431.00*	
Intel Core i5-10200H @ 2.40GHz				8.383	\$250.00*	
Intel Core i7-8557U @ 1.70GHz				8.225	\$431.00*	
Intel Core i5-1035G4 @ 1.10GHz				8.140	\$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				7.973	\$443.00*	
Intel Core i5-8260U @ 1.60GHz				7.854	\$439.99*	
Intel Core i5-8279U @ 2.40GHz				7.748	\$320.00*	
Intel Core i5-8257U @ 1.40GHz				7.665	\$320.00*	
AMD Ryzen 7 3780U				7.651	NA	
Intel Core i5-9300HF @ 2.40GHz				7.615	\$250.00*	
Intel Core i5-1035G1 @ 1.00GHz				7.600	\$297.00*	
AMD Ryzen 3 4300U				7.565	NA	
AMD Ryzen 5 3580U				7.383	NA	
Intel Core i3-10100T @ 3.00GHz				7.376	\$122.00*	
AMD Ryzen 7 3700C				7.145	NA	
Intel Core i7-10610U @ 1.80GHz				7.036	\$409.00*	
Intel Core i7-1060NG7 @ 1.20GHz				6.993	NA	
AMD Ryzen 5 3450U				6.794	NA	
Intel Core i7-10510U @ 1.80GHz				6.787	\$409.00*	
Intel Pentium Gold 8505				6.771	NA	
Intel Core i7-10610U @ 1.70GHz				6.507	\$409.00*	

CPU Benchmarks	Video Card Benchmarks	Hard Drive Benchmarks	RAM	PC Systems	Android	iOS / iPhone
Intel Core i9-11950U @ 1.70GHz				9,221	\$297.00*	
Intel Core i5-10210U @ 1.60GHz				6,365	\$702.62*	
Intel Core i3-1115G4 @ 3.00GHz				6,243	\$281.00*	
Intel Core i9-11950U @ 1.70GHz				9,032	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				5,289	NA	
AMD Ryzen 5 3500C				5,214	NA	
Intel Core i3-1005G1 @ 1.20GHz				5,080	\$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	
Intel Core i5-6442EQ @ 1.90GHz				4,598	\$250.00*	
AMD Athlon Silver 3050GE				4,545	NA	
Intel Pentium Silver N6005 @ 2.00GHz				4,510	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				4,006	\$434.17*	
AMD Athlon Gold 3150U				3,971	NA	
AMD Ryzen 3 3250U				3,962	NA	
Intel Core i3-1000NG4 @ 1.10GHz				3,836	NA	
Intel Core i5-L16G7 @ 1.40GHz				3,432	\$281.00*	
Intel Pentium Silver N5020 @ 1.10GHz				3,404	NA	
Intel Celeron N5100 @ 1.10GHz				3,275	NA	
Intel Core i3-10110Y @ 1.00GHz				3,256	\$287.00*	
AMD Ryzen Embedded R1305G				3,109	NA	
AMD Ryzen 3 3250C				3,044	NA	
AMD Athlon Silver 3050U				3,042	NA	
AMD Athlon Gold 3150C				2,973	NA	
AMD Athlon Silver 3050e				2,955	NA	
AMD 3015e				2,720	NA	
AMD A6-9400				2,717	NA	
Intel Pentium Silver N5030 @ 1.10GHz				2,695	NA	
Intel Celeron 7305				2,665	\$107.00*	
Intel Celeron N4120 @ 1.10GHz				2,512	NA	
AMD 3020e				2,477	NA	
Intel Pentium 6405U @ 2.40GHz				2,370	\$161.00*	
Intel Celeron 6305 @ 1.80GHz				2,154	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				1,570	NA	
Intel Celeron 5205U @ 1.90GHz				1,442	\$107.00*	
Intel Celeron N4000C @ 1.10GHz				1,360	NA	
Intel Celeron 1020M @ 2.10GHz				1,275	NA	
Intel Pentium A1020 @ 2.41GHz				1,265	NA	
AMD R-272F APU				1,215	NA	
AMD PRO A4-4350B				1,106	NA	
AMD A4-9120C				869	NA	
Intel Pentium Dual T2390 @ 1.86GHz				745	NA	

//

[› Performance Test](#)
[› OSForensics](#)[Plugs](#)
[› USB2.0 Loopback Plugs](#)[Video Card Benchmarks](#)[› Contact Us](#)
[› The Press Room](#)[Support](#)[Refunds](#)[CPU Benchmarks](#)[Video Card Benchmarks](#)[Hard Drive Benchmarks](#)[RAM](#)[PC Systems](#)[Android](#)[iOS / iPhone](#)[› Zoom Search Engine](#)
[› Free Software](#)[› USB Power Delivery Tester](#)
[› Serial and Parallel Loopback Plugs](#)
[› USB Short Circuit Testers](#)[› RAW Benchmarks](#)
[› PC Systems Benchmarks](#)
[› Android Benchmarks](#)
[› iOS / iPhone Benchmarks](#)
[› Software Marketshare](#)
[› Internet Bandwidth](#)[Social](#)