

Software

CPU Benchmarks

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CPU Benchmarks

Hard Drive Benchmarks

Over 1,000,000 CPUs Benchmarked
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New Laptop CPU Performance






iOS / iPhone

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:

- Forums
 - 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**

0

Compare

iconc

Common

Most Benchmarked

AMD vs Intel Market Share

Year on Year Performance

CPU Mark
Price Performance
Sorted by Date

CPU Benchmarks

Video Card Benchmarks

Hard Drive Benchmarks

RAM

PC Systems

Android

iOS / iPhone

PassMark - CPU Mark

Laptop & Portable CPU Performance
Updated 12th of August 2022

CPU
CPU Mark
Price (USD)

Intel Core i7-12800HX

6,589
\$457.00*

Intel Core i9-12950HX

5,618
\$590.00*

Intel Core i9-12900HX

3,912
\$606.00*

Intel Core i7-12850HX

1,111
\$428.00*

Intel Core i9-12900HK

9,643
\$635.00*

Intel Core i9-12900H

9,156
\$617.00*

Intel Core i7-12700H

7,048
\$457.00*

AMD Ryzen 9 6900HS Creator Edition

5,208

NA

AMD Ryzen 9 6900HX

CPU Benchmarks

4,899

Video Card Benchmarks

NA

Intel Core i5-12600HX

Hard Drive Benchmarks

4,689

RAM

\$284.00*

Intel Core i7-12650H

PC Systems

4,601

Android

\$457.00*

AMD Ryzen 7 6800HS Creator Edition

iOS / iPhone

4,490

NA

AMD Ryzen 9 6900HS

4,370

NA

AMD Ryzen 7 PRO 6850H

4,325

NA

Intel Core i7-12800H

3,852

\$457.00*

AMD Ryzen 9 PRO 6950HS

3,843

NA

AMD Ryzen 7 6800HS

3,674

NA

Intel Core i9-11980HK @ 2.60GHz

3,524

\$583.00*

AMD Ryzen 9 PRO 6950H

3,428

NA

Intel Xeon W-11955M @ 2.60GHz

3,418

\$623.00*

AMD Ryzen 9 5900HX

3,080

NA

AMD Ryzen 7 6800H

2,937

NA

AMD Ryzen 9 5980HX

CPU Benchmarks

2,879

Video Card Benchmarks

NA

Intel Core i9-11950H @ 2.60GHz

Hard Drive Benchmarks

2,395

RAM

\$556.00*

Apple M1 Max 10 Core 3200 MHz

PC Systems

2,325

Android

NA

AMD Ryzen 9 5900HS

iOS / iPhone

2,157

NA

Apple M1 Pro 10 Core 3200 MHz

2,134

NA

AMD Ryzen 7 PRO 6850U

2,058

NA

Intel Core i5-12500H

1,990

\$311.00*

Intel Core i5-1250P

1,712

NA

AMD Ryzen 9 5980HS

1,491

NA

AMD Ryzen 7 5800H

1,379

NA

AMD Ryzen 7 6800U

1,231

NA

Intel Core i7-11800H @ 2.30GHz

1,202

\$395.00*

Intel Core i9-11900H @ 2.50GHz

1,182

\$546.00*

Intel Core i7-11850H @ 2.50GHz

1,146

\$395.00*

Intel Core i5-12600H

CPU Benchmarks

1,000

Video Card Benchmarks

\$311.00*

AMD Ryzen 9 5900H

Hard Drive Benchmarks

0,960

RAM

NA

AMD Ryzen 7 5800HS Creator Edition

PC Systems

0,948

Android

NA

Intel Core i7-12700TE

iOS / iPhone

0,712

\$344.00*

AMD Ryzen 7 5800HS

0,666

NA

AMD Ryzen 5 6600H

0,179

NA

Intel Core i7-1280P

9,890

\$482.00*

AMD Ryzen 7 PRO 6850HS

9,658

NA

AMD Ryzen 9 4900HS

9,358

NA

AMD Ryzen 9 4900H

9,339

NA

AMD Ryzen 7 4800H

8,977

NA

AMD Ryzen 7 5800U

8,847

NA

AMD Ryzen 7 4800HS

8,820

NA

Intel Xeon W-11855M @ 3.20GHz

8,810

\$459.00*

Intel Core i5-12450H

CPU Benchmarks

8,612

Video Card Benchmarks

\$311.00*

AMD Ryzen 7 5825U

Hard Drive Benchmarks

8,497

RAM

NA

AMD Ryzen 7 Extreme Edition

PC Systems

8,192

Android

NA

Intel Core i7-1270P

iOS / iPhone

8,096

NA

Intel Core i3-1220P

8,058

\$281.00*

Intel Core i5-1240P

7,477

NA

AMD Ryzen 7 PRO 5850U

7,416

NA

Apple M1 Pro 8 Core 3200 MHz

7,317

NA

AMD Ryzen 5 6600U

7,257

NA

Intel Core i7-1260P

7,206

NA

AMD Ryzen 5 5600H

7,149

NA

AMD Ryzen 5 5560U

7,084

NA

AMD Ryzen 7 4800U

7,011

NA

AMD Ryzen 7 PRO 5875U

6,929

NA

Intel Core i5-12500TE

CPU Benchmarks

6,865

\$205.00*

Video Card Benchmarks

AMD Ryzen 5 PRO 6650U

Hard Drive Benchmarks

6,813

NA

RAM

Intel Core i7-10700TE @ 2.00GHz

PC Systems

6,332

\$330.00*

Android

Intel Core i7-10700E @ 2.90GHz

iOS / iPhone

6,257

\$330.00*

Intel Core i5-11500H @ 2.90GHz

6,133

\$250.00*

Intel Xeon W-10885M @ 2.40GHz

6,084

\$623.00*

Intel Core i9-10980HK @ 2.40GHz

6,082

\$583.00*

Intel Core i5-11400H @ 2.70GHz

5,999

\$250.00*

AMD Ryzen 7 5700U

5,936

NA

AMD Ryzen 7 4850U Mobile

5,920

NA

Intel Core i7-11600H @ 2.90GHz

5,907

\$395.00*

Intel Core i9-10885H @ 2.40GHz

5,571

\$556.00*

AMD Ryzen 7 PRO 4750U

5,426

NA

AMD Ryzen 5 5600U

5,409

NA

Intel Core i5-11260H @ 2.60GHz

CPU Benchmarks

5,398

\$250.00*

Video Card Benchmarks

Intel Core i7-10875H @ 2.30GHz

Hard Drive Benchmarks

5,380

\$450.00*

RAM

Apple M2 8 Core 3500 MHz

PC Systems

5,173

NA

Android

AMD Ryzen 5 PRO 5650U

iOS / iPhone

5,164

NA

Intel Core i7-10870H @ 2.20GHz

4,927

\$417.00*

AMD Ryzen 5 PRO 4400GE

4,795

NA

AMD Ryzen 5 4600HS

4,735

NA

Intel Core i9-10880H @ 2.30GHz

4,735

NA

AMD Ryzen 5 4600H

4,711

NA

Apple M1 8 Core 3200 MHz

4,527

NA

AMD Ryzen 5 5625U

4,283

NA

Intel Core i5-1235U

3,865

\$309.00*

AMD Ryzen 7 4700U

3,608

NA

AMD Ryzen 5 4600U

3,484

NA

AMD Ryzen 5 PRO 5675U

CPU Benchmarks

3,347

Video Card Benchmarks

NA

Intel Core i7-1255U

Hard Drive Benchmarks

3,211

RAM

\$426.00*

AMD Ryzen 5 5500U

PC Systems

3,184

Android

NA

Intel Core i3-12100TE

iOS / iPhone

2,961

\$125.00*

Intel Xeon W-10855M @ 2.80GHz

2,906

\$450.00*

Intel Core i7-1265U

2,869

\$426.00*

AMD Ryzen 5 PRO 4650U

2,836

NA

Intel Core i7-11375H @ 3.30GHz

2,286

\$482.00*

Intel Core i7-10750H @ 2.60GHz

2,273

NA

Intel Core i3-1210U

2,130

NA

Intel Core i7-10850H @ 2.70GHz

2,126

\$395.00*

AMD Ryzen 3 PRO 5475U

2,074

NA

AMD Ryzen 5 PRO 4500U

2,049

NA

Intel Core i7-11370H @ 3.30GHz

1,961

\$426.00*

AMD Ryzen 3 5400U

CPU Benchmarks

1,871

Video Card Benchmarks

NA

Intel Core i3-1215U

Hard Drive Benchmarks

1,830

RAM

NA

Intel Core i5-10500H @ 2.50GHz

PC Systems

1,638

Android

\$250.00*

AMD Ryzen 3 PRO 5450U

iOS / iPhone

1,563

NA

Intel Core i7-9750HF @ 2.60GHz

1,159

\$395.00*

AMD Ryzen 5 4500U

1,072

NA

Intel Core i5-11300H @ 3.10GHz

1,028

\$309.00*

AMD Ryzen 3 PRO 4200GE

0,930

NA

Intel Core i7-1195G7 @ 2.90GHz

0,922

\$426.00*

Intel Core i7-9700TE @ 1.80GHz

0,826

\$323.00*

Intel Core i7-1185G7 @ 3.00GHz

0,819

\$426.00*

Intel Core i5-11320H @ 3.20GHz

0,685

\$309.00*

Intel Core i7-11390H @ 3.40GHz

0,614

\$426.00*

Intel Core i7-1165G7 @ 2.80GHz

0,501

\$426.00*

Intel Core i5-1145G7 @ 2.60GHz

CPU Benchmarks

0,213
NA

Video Card Benchmarks

AMD Ryzen 3 5425U

Hard Drive Benchmarks

0,203
NA

RAM

AMD Ryzen 3 PRO 4450U

PC Systems

0,169
NA

Android

Intel Core i5-1135G7 @ 2.40GHz

iOS / iPhone

0,075
\$309.00*

Intel Core i5-1155G7 @ 2.50GHz

0,055
\$309.00*

Intel Core i7-1068NG7 @ 2.30GHz

0,048
\$426.00*

Intel Core i7-10710U @ 1.10GHz

,995
\$644.99*

Intel Core i7-1185G7E @ 2.80GHz

,980
\$431.00*

AMD Ryzen 3 5300U

,971
NA

Intel Core i5-10500TE @ 2.30GHz

,960
\$195.00*

Intel Core i3-1125G4 @ 2.00GHz

,907
NA

Intel Core i5-1230U

,896
\$309.00*

Intel Core i5-1038NG7 @ 2.00GHz

,629
\$320.00*

Intel Core i7-1160G7 @ 1.20GHz

,576

\$425.00*

Intel Core i5-9500TE @ 2.20GHz

CPU Benchmarks

,212

Video Card Benchmarks

\$192.00*

Intel Core i7-9850HL @ 1.90GHz

Hard Drive Benchmarks

,112

RAM

\$395.00*

Intel Core i5-10400H @ 2.60GHz

PC Systems

,945

Android

\$250.00*

Intel Core i5-1130G7 @ 1.10GHz

iOS / iPhone

,931

\$309.00*

Intel Core i5-10300H @ 2.50GHz

,644

\$250.00*

Intel Core i7-8569U @ 2.80GHz

,626

\$431.00*

Intel Core i5-1035G7 @ 1.20GHz

,516

\$320.00*

Intel Core i7-1180G7 @ 1.30GHz

,461

\$426.00*

Intel Core i5-10200H @ 2.40GHz

,392

\$250.00*

Intel Core i7-8557U @ 1.70GHz

,225

\$431.00*

Intel Core i5-1035G4 @ 1.10GHz

,140

\$309.00*

AMD Athlon Gold PRO 4150GE

,070

NA

Intel Core i5-8269U @ 2.60GHz

,055

\$320.00*

Intel Core i7-10810U @ 1.10GHz

,924

\$443.00*

Intel Core i5-8260U @ 1.60GHz

CPU Benchmarks

,854

\$439.99*

Video Card Benchmarks

Intel Core i5-8279U @ 2.40GHz

Hard Drive Benchmarks

,774

\$320.00*

RAM

Intel Core i5-8257U @ 1.40GHz

PC Systems

,663

\$320.00*

Android

AMD Ryzen 7 3780U

iOS / iPhone

,651

NA

Intel Core i5-9300HF @ 2.40GHz

,615

\$250.00*

Intel Core i5-1035G1 @ 1.00GHz

,599

\$297.00*

AMD Ryzen 3 4300U

,565

NA

AMD Ryzen 5 3580U

,383

NA

Intel Core i3-10100T @ 3.00GHz

,376

\$122.00*

AMD Ryzen 7 3700C

,145

NA

Intel Core i7-10610U @ 1.80GHz

,007

\$409.00*

Intel Core i7-1060NG7 @ 1.20GHz

,993

NA

AMD Ryzen 5 3450U

,790

NA

Intel Core i7-10510U @ 1.80GHz

,787

\$409.00*

Intel Pentium Gold 8505

CPU Benchmarks

,771

Video Card Benchmarks

NA

Intel Core i5-10310U @ 1.70GHz

Hard Drive Benchmarks

,535

RAM

\$297.00*

Intel Core i5-10210U @ 1.60GHz

PC Systems

,374

Android

\$702.62*

Intel Core i3-1115G4 @ 3.00GHz

iOS / iPhone

,241

\$281.00*

Intel Core i7-8565UC @ 1.80GHz

,187

NA

Intel Core i5-1030NG7 @ 1.10GHz

,086

NA

AMD Ryzen 3 3350U

,889

NA

Intel Core i5-7440EQ @ 2.90GHz

,711

\$250.00*

Intel Core i5-8365UE @ 1.60GHz

,555

\$297.00*

Intel Pentium Gold 7505 @ 2.00GHz

,291

NA

AMD Ryzen 5 3500C

,214

NA

Intel Core i3-1005G1 @ 1.20GHz

,084

\$281.00*

Intel Core i7-8665UE @ 1.70GHz

,017

\$409.00*

Intel Core i7-10510Y @ 1.20GHz

,016

\$403.00*

Intel Core i5-10210Y @ 1.00GHz

CPU Benchmarks

,964
NA

Video Card Benchmarks

Microsoft ARM SQ1 @ 3.0 GHz

Hard Drive Benchmarks

,961
NA

RAM

Intel Core i5-6442EQ @ 1.90GHz

PC Systems

,598
\$250.00*

Android

AMD Athlon Silver 3050GE

iOS / iPhone

,545
NA

Intel Pentium Silver N6005 @ 2.00GHz

,537
NA

Intel Core i3-9100TE @ 2.20GHz

,501
\$122.00*

Intel Pentium 6805 @ 1.10GHz

,448
\$161.00*

Intel Core i5-6350HQ @ 2.30GHz

,255
\$306.00*

Intel Core i3-8140U @ 2.10GHz

,227
NA

Intel Core i3-8145UE @ 2.20GHz

,087
\$281.00*

Intel Core i3-10110U @ 2.10GHz

,008
\$434.17*

AMD Athlon Gold 3150U

,988
NA

AMD Ryzen 3 3250U

,971
NA

Intel Core i3-1000NG4 @ 1.10GHz

,827

NA

Intel Core i5-L16G7 @ 1.40GHz

CPU Benchmarks

,432

\$281.00*

Video Card Benchmarks

Intel Pentium Silver N5020 @ 1.10GHz

Hard Drive Benchmarks

,404

NA

RAM

Intel Celeron N5100 @ 1.10GHz

PC Systems

,303

NA

Android

Intel Core i3-10110Y @ 1.00GHz

iOS / iPhone

,256

\$287.00*

AMD Ryzen Embedded R1305G

,109

NA

AMD Ryzen 3 3250C

,044

NA

AMD Athlon Silver 3050U

,042

NA

AMD Athlon Silver 3050e

,955

NA

AMD 3015e

,720

NA

AMD A6-9400

,717

NA

Intel Pentium Silver N5030 @ 1.10GHz

,695

NA

Intel Celeron 7305

,665

\$107.00*

Intel Celeron N4120 @ 1.10GHz

,519

NA

AMD 3020e

,475

NA

Intel Pentium 6405U @ 2.40GHz

CPU Benchmarks

,370

\$161.00*

Video Card Benchmarks

Intel Core i3-6102E @ 1.90GHz

Hard Drive Benchmarks

,349

\$225.00*

RAM

AMD Athlon Gold 3150C

PC Systems

,310

NA

Android

Intel Celeron 6305 @ 1.80GHz

iOS / iPhone

,154

NA

Intel Celeron 4305UE @ 2.00GHz

,876

NA

Intel Pentium 4425Y @ 1.70GHz

,726

\$161.00*

Intel Celeron N4020C @ 1.10GHz

,630

NA

Intel Celeron N4020 @ 1.10GHz

,571

NA

Intel Celeron 5205U @ 1.90GHz

,440

\$107.00*

Intel Celeron N4000C @ 1.10GHz

,360

NA

Intel Celeron 1020M @ 2.10GHz

,275

NA

Intel Pentium A1020 @ 2.41GHz

,265

NA

AMD R-272F APU

,215

NA

AMD PRO A4-4350B

,106

NA

AMD A4-9120C

CPU Benchmarks

69

Video Card Benchmarks

NA

Intel Pentium Dual T2390 @ 1.86GHz

Hard Drive Benchmarks

45

RAM

NA

//

PC Systems

Software

BurnInTest
PerformanceTest
OSForensics
MemTest86
WirelessMon
Zoom Search Engine
Free Software

Android

iOS / iPhone

Hardware

USB3.0 Loopback Plugs
USB2.0 Loopback Plugs
PCIe Test Cards
USB Power Delivery Tester
Serial and Parallel Loopback Plugs
USB Short Circuit Testers

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