

Software

CPU Benchmarks

Hardware

Video Card Benchmarks

CPU Benchmarks

Low End

Over 1,000,000 CPUs Benchmarked
Services

Store

Hard Drive Benchmarks

RAM

PC Systems

Android

New Desktop CPU Performance

Support

iOS / iPhone

This chart comparing performance of CPUs designed for desktop machines is made using thousands of [PerformanceTest](#) benchmark results and is updated daily.

Notes:

Forums

- While we try to keep this chart mainly server and laptop CPU free, there might be some rogue processors in the list.
- The chart shows only CPUs that had their benchmark first submitted within the last 36 months. Older desktop CPUs may not appear.

iconc

CPUS

iconc

High

End

High Mid Range

Low Mid Range

iconc

Best Value

(On Market)

Best Value XY
Scatter

Best Value
(All time)

iconc

New

Desktop

New Laptop

iconc

Single

Thread

Systems with
Multiple CPUs

Overclocked

Power
Performance

CPU Mark by
Socket Type

Cross-Platform
CPU Performance



iconc

CPU Mega

List

Search Model

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 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

Desktop CPU Performance
Updated 12th of August 2022

CPU

CPU Mark

Price (USD)

AMD Ryzen Threadripper PRO 5995WX

00,012

\$6,499.00*

AMD Ryzen Threadripper PRO 3995WX

3,289

\$7,893.00

AMD Ryzen Threadripper 3990X

1,431

\$7,514.01

AMD Ryzen Threadripper PRO 5975WX

9,463

\$3,299.00

AMD Ryzen Threadripper PRO 5965WX

7,986

\$2,673.65

AMD Ryzen Threadripper 3970X

3,744

\$2,099.00

AMD Ryzen Threadripper PRO 3975WX

3,043

\$4,000.00

AMD Ryzen Threadripper 3960X

4,782

\$1,199.99

AMD Ryzen Threadripper PRO 5955WX

0,623
NA

CPU Benchmarks

AMD Ryzen 9 5950X

Video Card Benchmarks

5,862
\$499.99

Hard Drive Benchmarks

Intel Core i9-12900KS

RAM

4,828
\$734.98

PC Systems

Intel Core i9-12900K

Android

1,414
\$569.89

iOS / iPhone

Intel Core i9-12900KF

1,403
\$548.99

Apple M1 Ultra 20 Core

1,175
NA

AMD Ryzen Threadripper PRO 5945WX

0,888
NA

AMD Ryzen Threadripper PRO 3955WX

0,122
\$1,543.79

Intel Xeon W-3265M @ 2.70GHz

9,618
\$6,353.00*

AMD Ryzen 9 5900X

9,334
\$359.99

AMD Ryzen 9 3950X

9,064
\$695.00

Intel Core i9-12900

6,911
\$508.99

Intel Core i9-12900F

6,373
\$493.99

AMD Ryzen 9 5900

4,768
NA

Intel Core i7-12700K

4,508
\$409.00*

CPU Benchmarks

Intel Core i7-12700KF

Video Card Benchmarks

4,303
\$377.99

Hard Drive Benchmarks

Intel Core i9-12900T

RAM

3,728
\$489.00*

PC Systems

AMD Ryzen Threadripper PRO 3945WX

Android

3,355
NA

iOS / iPhone

Intel Core i9-10980XE @ 3.00GHz

3,278
\$910.99

AMD Ryzen 9 3900XT

2,964
\$899.99

Intel Core i7-12700F

1,673
\$312.96

AMD Ryzen 9 PRO 3900

1,407
NA

Intel Core i7-12700

1,325
\$342.98

AMD Ryzen 9 3900

0,690
\$501.00

Intel Core i9-9990XE @ 4.00GHz

0,162
\$2,163.00*

Intel Core i9-10940X @ 3.30GHz

8,448
\$762.00

AMD Ryzen 7 5800X

8,159
\$299.99

Intel Xeon W-2275 @ 3.30GHz

7,889
\$1,112.00*

Intel Core i5-12600K		
7,613		CPU Benchmarks
\$275.00		
AMD Ryzen 7 5800X3D		Video Card Benchmarks
7,563		Hard Drive Benchmarks
\$438.98		
Intel Core i5-12600KF		RAM
7,007		PC Systems
\$259.99		
Intel Core i9-10920X @ 3.50GHz		Android
6,547		iOS / iPhone
\$674.89		
AMD Ryzen 7 5700X		
6,534		
\$249.00		
Intel Xeon W-1390P @ 3.50GHz		
5,927		
NA		
Intel Xeon W-3323 @ 3.50GHz		
5,875		
\$949.00*		
AMD Ryzen 7 5800		
5,861		
NA		
Intel Core i9-11900K @ 3.50GHz		
5,507		
\$391.99		
Intel Core i9-11900KF @ 3.50GHz		
5,354		
\$374.99		
Intel Xeon W-1370P @ 3.60GHz		
5,202		
\$467.49		
AMD Ryzen 7 PRO 5750G		
4,977		
NA		
Intel Core i7-11700K @ 3.60GHz		
4,680		
\$303.34		
AMD Ryzen 7 5700G		
4,558		
\$240.00		

Intel Core i7-11700KF @ 3.60GHz

4,095
\$298.98

CPU Benchmarks

Intel Xeon W-1370 @ 2.90GHz

Video Card Benchmarks

3,908
\$377.99

Hard Drive Benchmarks

AMD Ryzen 7 3800XT

RAM

3,769
\$309.99

PC Systems

Intel Core i9-10900K @ 3.70GHz

Android

3,649
\$388.99

iOS / iPhone

Intel Core i9-10900KF @ 3.70GHz

3,384
\$329.99

Intel Core i9-11900F @ 2.50GHz

3,107
\$400.99

AMD Ryzen 7 PRO 3700

3,051
\$329.99*

Intel Core i9-11900 @ 2.50GHz

3,000
\$312.99

Intel Core i9-10850K @ 3.60GHz

2,963
\$349.95

Intel Core i7-12700T

2,912
\$339.00*

Intel Core i9-11900KB @ 3.30GHz

2,695
\$539.00*

Intel Core i9-10900X @ 3.70GHz

2,662
\$540.00

Intel Core i7-11700B @ 3.20GHz

2,627
NA

AMD Ryzen 7 5700GE

2,484
NA

Apple M1 Max 10 Core 3200 MHz		
2,325		CPU Benchmarks
NA		
AMD Ryzen 7 PRO 5750GE		Video Card Benchmarks
2,261		Hard Drive Benchmarks
NA		
Intel Xeon W-2255 @ 3.70GHz		RAM
2,259		PC Systems
\$778.00*		
Apple M1 Pro 10 Core 3200 MHz		Android
2,134		iOS / iPhone
NA		
AMD Ryzen Threadripper 1920		
2,066		
NA		
AMD Ryzen 5 5600X		
1,997		
\$199.98		
Intel Core i9-10910 @ 3.60GHz		
1,822		
NA		
AMD Ryzen 5 5600		
1,466		
\$179.96		
Intel Core i7-11700F @ 2.50GHz		
1,310		
\$303.40		
Intel Core i5-12600		
0,926		
\$229.98		
AMD Ryzen 7 PRO 4700G		
0,848		
NA		
Intel Core i9-10900F @ 2.80GHz		
0,714		
\$402.99		
Intel Core i9-10900E @ 2.80GHz		
0,658		
\$444.00*		
AMD Ryzen 7 PRO 4750G		
0,574		
\$254.99		

Intel Core i5-12500

0,417

\$202.00*

CPU Benchmarks

AMD Ryzen 7 4700GE

Video Card Benchmarks

0,416

NA

Hard Drive Benchmarks

Intel Core i9-10900 @ 2.80GHz

RAM

0,362

\$379.99

PC Systems

AMD Ryzen 5 PRO 5650G

Android

0,254

NA

iOS / iPhone

AMD Ryzen 7 4700G

0,190

\$238.16*

Intel Core i5-12490F

0,177

\$229.99

Intel Core i7-11700 @ 2.50GHz

0,078

\$313.97

Intel Core i9-11900T @ 1.50GHz

0,036

\$439.00*

Intel Core i5-12400F

9,828

\$179.99

AMD Ryzen 5 5600G

9,827

\$169.99

Intel Core i5-11600K @ 3.90GHz

9,730

\$224.89

Intel Core i5-11600KF @ 3.90GHz

9,690

\$208.99

Intel Core i9-9900KS @ 4.00GHz

9,549

\$894.88

Intel Core i5-12400

9,538

\$192.00*

AMD Ryzen 5 5500

9,483
\$138.96

CPU Benchmarks

Intel Core i7-10700K @ 3.80GHz

Video Card Benchmarks

9,219
\$313.99

Hard Drive Benchmarks

Intel Core i7-10700KF @ 3.80GHz

RAM

9,045
\$289.96

PC Systems

AMD Ryzen 5 5600GE

Android

8,879
NA

iOS / iPhone

AMD Ryzen 5 3600XT

8,752
\$444.20

AMD Ryzen 5 PRO 5650GE

8,624
NA

AMD Ryzen 7 PRO 4750GE

8,470
NA

AMD 4700S

8,263
NA

Intel Core i5-11600 @ 2.80GHz

8,237
\$249.99

Intel Core i5-11500B @ 3.30GHz

7,801
NA

Intel Core i5-11500 @ 2.70GHz

7,631
\$192.19

Intel Core i5-12500T

7,578
\$202.00*

Apple M1 Pro 8 Core 3200 MHz

7,317
NA

Intel Core i5-11400F @ 2.60GHz

7,210
\$149.98

Intel Core i5-11400 @ 2.60GHz		
7,081		CPU Benchmarks
\$154.46		
Intel Core i7-10700F @ 2.90GHz		Video Card Benchmarks
7,025		Hard Drive Benchmarks
\$249.97		
Intel Core i7-10700 @ 2.90GHz		RAM
6,837		PC Systems
\$279.99		
AMD Ryzen 5 PRO 4400G		Android
6,456		iOS / iPhone
NA		
AMD Ryzen 5 PRO 4650G		
6,362		
\$219.98		
Intel Core i5-12600T		
6,154		
NA		
AMD Ryzen 5 4500		
5,819		
\$109.99		
AMD Ryzen 5 PRO 4650GE		
5,694		
NA		
AMD Ryzen 5 4600GE		
5,656		
NA		
AMD Ryzen 5 4600G		
5,615		
\$128.00		
Intel Core i7-11700T @ 1.40GHz		
5,537		
\$323.00*		
Intel Core i5-11600T @ 1.70GHz		
5,352		
\$213.00*		
Intel Core i9-10900T @ 1.90GHz		
5,209		
\$299.99		
Apple M2 8 Core 3500 MHz		
5,173		
NA		

Intel Core i3-12100		
4,955		CPU Benchmarks
\$143.00*		
AMD Ryzen 7 2700E		Video Card Benchmarks
4,657		Hard Drive Benchmarks
NA		
Intel Core i5-10600KF @ 4.10GHz		RAM
4,528		PC Systems
\$179.99		
Apple M1 8 Core 3200 MHz		Android
4,527		iOS / iPhone
NA		
Intel Core i5-10600K @ 4.10GHz		
4,524		
\$199.00		
Intel Core i3-12100		
4,476		
\$122.00*		
Intel Xeon W-1250P @ 4.10GHz		
4,476		
\$321.50*		
Intel Core i3-12100F		
4,383		
\$109.99		
Intel Core i9-9900T @ 2.10GHz		
4,085		
\$439.00*		
AMD Ryzen 3 PRO 5350G		
3,976		
NA		
Intel Core i5-10600 @ 3.30GHz		
3,847		
\$219.98		
AMD Ryzen 3 PRO 5350GE		
3,685		
NA		
AMD Ryzen 3 5300GE		
3,636		
NA		
Intel Core i5-11500T @ 1.50GHz		
3,397		
\$192.00*		

AMD Ryzen 5 3500X

3,303
\$126.95

CPU Benchmarks

Intel Core i7-10700T @ 2.00GHz

Video Card Benchmarks

3,243
\$447.99*

Hard Drive Benchmarks

Intel Core i5-11400T @ 1.30GHz

RAM

3,112
\$182.00*

PC Systems

Intel Core i5-10500 @ 3.10GHz

Android

3,034
\$212.89

iOS / iPhone

AMD Ryzen 3 5300G

2,955
NA

AMD Ryzen 5 3500

2,847
NA

Intel Core i3-12100T

2,840
\$122.00*

Intel Core i7-9700E @ 2.60GHz

2,751
\$323.00*

AMD Ryzen 3 3300X

2,700
\$250.00

Intel Core i5-10400F @ 2.90GHz

2,395
\$129.00

Intel Core i5-10505 @ 3.20GHz

2,313
NA

Intel Core i5-10400 @ 2.90GHz

2,306
\$139.99

AMD Ryzen 3 3100

1,651
\$149.51

Intel Core i3-11100B @ 3.60GHz

1,357
NA

AMD Ryzen 3 PRO 4200G		
1,315		CPU Benchmarks
NA		
AMD Ryzen 3 4300GE		Video Card Benchmarks
1,306		Hard Drive Benchmarks
NA		
AMD Ryzen 3 4100		RAM
1,276		PC Systems
\$112.99		
Intel Core i5-10600T @ 2.40GHz		Android
1,210		iOS / iPhone
\$213.00*		
AMD Ryzen 3 PRO 4350GE		
1,090		
NA		
AMD Ryzen 3 PRO 4350G		
0,877		
NA		
Intel Core i7-9700TE @ 1.80GHz		
0,826		
\$323.00*		
AMD Ryzen 3 4300G		
0,756		
NA		
Intel Core i5-9600 @ 3.10GHz		
0,356		
\$249.99		
Intel Core i3-10325 @ 3.90GHz		
0,308		
\$190.10*		
Intel Core i5-10500T @ 2.30GHz		
0,303		
\$192.00*		
Intel Core i3-10320 @ 3.80GHz		
0,027		
\$122.96		
Intel Core i5-10400T @ 2.00GHz		
,960		
\$182.00*		
Intel Core i3-10305 @ 3.80GHz		
,689		
\$159.99		

AMD Ryzen 5 PRO 3350GE

,643
NA

CPU Benchmarks

AMD Ryzen 5 PRO 3350G

Video Card Benchmarks

,442
NA

Hard Drive Benchmarks

AMD Ryzen 5 3350GE

RAM

,343
NA

PC Systems

AMD Ryzen 5 PRO 3400G

Android

,298
NA

iOS / iPhone

Intel Core i3-10300 @ 3.70GHz

,153
\$114.99

AMD Ryzen 5 3350G

,113
NA

Intel Core i7-9850HL @ 1.90GHz

,112
\$395.00*

Intel Core i3-10105F @ 3.70GHz

,109
\$79.95

AMD Ryzen 5 3400GE

,996
NA

Intel Core i3-10100F @ 3.60GHz

,860
\$68.08

Intel Core i3-10105 @ 3.70GHz

,843
\$100.12

Intel Core i3-10100 @ 3.60GHz

,775
\$110.99

Intel Core i5-10300H @ 2.50GHz

,644
\$250.00*

Intel Core i5-9600T @ 2.30GHz

,464
\$213.00*

AMD Ryzen 5 PRO 3400GE		
,265		CPU Benchmarks
NA		
Intel Core i3-10100E @ 3.20GHz		Video Card Benchmarks
,229		Hard Drive Benchmarks
\$125.00*		
AMD Ryzen Embedded V1756B		RAM
,215		PC Systems
NA		
Intel Core i3-10305T @ 3.00GHz		Android
,136		iOS / iPhone
\$143.00*		
Intel Core i3-10300T @ 3.00GHz		
,119		
\$177.67		
Intel Core i3-10105T @ 3.00GHz		
,850		
\$122.00*		
AMD Athlon Gold PRO 3150G		
,702		
NA		
Intel Core i3-9350K @ 4.00GHz		
,694		
\$293.22*		
Intel Core i3-9320 @ 3.70GHz		
,358		
\$215.67		
AMD Ryzen 3 3200GE		
,317		
NA		
AMD Athlon Gold 3150G		
,093		
NA		
AMD Athlon Gold PRO 3150GE		
,068		
NA		
AMD Ryzen 3 PRO 3200G		
,952		
NA		
Intel Pentium Gold G7400		
,804		
\$71.95		

AMD Ryzen Embedded V1404I

,241
NA

CPU Benchmarks

Intel Pentium Gold G7400T

Video Card Benchmarks

,883
\$64.00*

Hard Drive Benchmarks

Intel Core i5-4470S @ 3.00GHz

RAM

,742
NA

PC Systems

AMD Athlon Silver PRO 3125GE

Android

,633
NA

iOS / iPhone

Intel Celeron N5095A @ 2.00GHz

,627
NA

Intel Pentium Gold G6605 @ 4.30GHz

,513
\$106.19

AMD Athlon 3000G

,482
\$79.99

AMD Athlon PRO 300GE

,475
NA

Intel Pentium Gold G6600 @ 4.20GHz

,396
\$111.07

Intel Pentium Gold G6505 @ 4.20GHz

,378
\$75.00*

AMD Athlon 300GE

,301
NA

AMD Athlon 320GE

,300
NA

Intel Pentium Gold G6405 @ 4.10GHz

,294
\$49.00

AMD Ryzen Embedded R1606G

,166
NA

Intel Pentium Gold G5600F @ 3.90GHz

,160
\$90.99

CPU Benchmarks

Intel Pentium Gold G6500 @ 4.10GHz

Video Card Benchmarks

,147
\$96.99

Hard Drive Benchmarks

Intel Pentium Gold G6400 @ 4.00GHz

RAM

,134
\$68.99

PC Systems

Intel Pentium Gold G5620 @ 4.00GHz

Android

,102
\$125.00

iOS / iPhone

Intel Celeron G6900T

,024
\$42.00*

Intel Celeron N5095 @ 2.00GHz

,014
NA

Intel Pentium Gold G6500T @ 3.50GHz

,005
\$75.00*

Intel Pentium Gold G6405T @ 3.50GHz

,746
\$64.00*

Intel Celeron G6900

,612
\$39.99

Intel Pentium Gold G5600T @ 3.30GHz

,601
NA

Intel Pentium Gold G6400T @ 3.40GHz

,586
\$64.00*

Intel Pentium Gold G5420T @ 3.20GHz

,508
\$64.00*

Intel Pentium Silver J5040 @ 2.00GHz

,507
NA

Intel Celeron J4125 @ 2.00GHz

,981
NA

Intel Celeron G5925 @ 3.60GHz		
,939		CPU Benchmarks
\$37.98		
Intel Celeron G5905 @ 3.50GHz		Video Card Benchmarks
,815		Hard Drive Benchmarks
\$44.00		
Intel Celeron G4950 @ 3.30GHz		RAM
,714		PC Systems
\$1,008.65*		
Intel Celeron J4115 @ 1.80GHz		Android
,709		iOS / iPhone
NA		
Intel Celeron G5900 @ 3.40GHz		
,672		
\$57.99		
Intel Celeron G5900T @ 3.20GHz		
,648		
\$42.00*		
Intel Celeron G4930 @ 3.20GHz		
,571		
\$116.40		
AMD Athlon II X4 557		
,567		
NA		
Intel Celeron G5920 @ 3.50GHz		
,482		
\$55.89		
Intel Celeron G5905T @ 3.30GHz		
,310		
\$42.00*		
Intel Celeron G4930T @ 3.00GHz		
,250		
\$42.00*		
Intel Celeron J3455E @ 1.50GHz		
,139		
NA		
Intel Core2 Extreme Q9200 @ 2.40GHz		
,011		
NA		
AMD Athlon X4 730		
,936		
NA		

AMD Athlon X2 530

,786
NA

CPU Benchmarks

Intel Celeron J4025 @ 2.00GHz

Video Card Benchmarks

,722
NA

Hard Drive Benchmarks

Intel Pentium G2120T @ 2.70GHz

RAM

,613
NA

PC Systems

AMD Athlon X2 450

Android

,295
NA

iOS / iPhone

AMD R-272F APU

,215
NA

//

Software

BurnInTest
PerformanceTest
OSForensics
MemTest86
WirelessMon
Zoom Search Engine
Free Software

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

Benchmarks

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