COMPARE

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CPU
GPU
SSD
HDD
RAM
USB

CPU RANKINGS
TEST YOUR CPU
ADD TO PC BUILD

Intel BX80684I58400 — Core i5-8400

114 BUY

BUY • €180
6 Cores, 6 Threads
@2.8GHz Coffee Lake (2017)
8100 8350K 8400 8500

VS
Copy cpu

AMD YD2400C5FBBOX — Ryzen 5 2400G

66 BUY

BUY • €155
2200G 2400G

Effective Speed +24%

Real World Speed — Benchmark your CPU here.

	Intel Core i5-8400		AMD Ryzen 5 2400G
Effective Speed	92.4 EM	Faster effective speed. +24%	74.7 EM

6,462 User Benchmarks
Best Bench: 96% Base clock 2.8 GHz, turbo 3.85 GHz (avg)
Worst Bench: 87% Base clock 2.8 GHz, turbo 3.8 GHz (avg)

876 User Benchmarks
Best Bench: 87% Base clock 4.1 GHz, turbo 4.05 GHz (avg)
Worst Bench: 61% Base clock 3.6 GHz, turbo 3.8 GHz (avg)

SPEED RANK: 25TH / 1055 — SPEED RANK: 79TH / 1055

	Intel Core i5-8400		AMD Ryzen 5 2400G
Gaming 63% (Number Submitted: 4)	Desktop 89% (Aircraft Carrier: 1)	Workstation 58% (Battle Cruiser: 1)	Gaming 71% (Submitted: 1)	Desktop 76% (Submitted: 1)	Workstation 58% (Surface: 1)

Average User Bench +19%

	Intel Core i5-8400		AMD Ryzen 5 2400G
SC Mixed (Average Single Core Speed)	120 PM	Slightly faster single-core speed. +16%	105 PM
QC Mixed (Average Quad Core Speed)	470 PM	Much faster quad-core speed. +31%	360 PM
MC Mixed (Avg. Multi Core Mixed Speed)	688 PM	Slightly faster multi-core speed. +12%	611 PM

Peak Overclocked Bench +10%

	Intel Core i5-8400		AMD Ryzen 5 2400G
SC Mixed (Peak Single Core Speed)	126 PM	Slightly faster OC single-core speed. +9%	116 PM
QC Mixed (Peak Quad Core Speed)	489 PM	Slightly faster OC quad-core speed. +10%	446 PM
MC Mixed (Peak OC Multi Core Speed)	724 PM	Slightly faster OC multi-core speed. +11%	651 PM

Value & Sentiment +54%

Market Share — Market share trading 30 days. See market share leaders.

	Intel Core i5-8400		AMD Ryzen 5 2400G
Market Share (Market share trading 30 days)	0.77 %	Hugely higher market share. +147%	0.32 %
Value (Value for money)	109 %	Better value. +17%	92.8 %
User Rating (User Rating)	114 %	Much more popular. +73%	66 %
Price (Price paid)	€180		€155	Slightly cheaper. +14%

Nice To Haves +3%

	Intel Core i5-8400		AMD Ryzen 5 2400G
Age (Newer)	5 months		1 month	Much more recent. +80%
SC Int (Single Core Integer Speed)	122 PM	Slightly faster single-core int speed. +9%	112 PM
SC Float (Single Core Floating Point Speed)	129 PM	Slightly faster single-core fp speed. +8%	120 PM
QC Int (Quad Core Integer Speed)	476 PM	Slightly faster quad-core int speed. +5%	431 PM
QC Float (Quad Core Floating Point Speed)	505 PM	Slightly faster quad-core fp speed. +10%	460 PM
MC Int (Multi Core Integer Speed)	703 PM	Slightly faster multi-core int speed. +12%	630 PM
MC Float (Multi Core Floating Point Speed)	749 PM	Slightly faster multi-core fp speed. +13%	662 PM

Conclusion

Average Bench 92.5% — Average Bench 74.7%

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The i5-8400 is a competitively priced hex-core processor from Intel's 8th generation of Core processors (Coffee Lake). Along with the release of the unlocked i5-8600K, this is the first time that six-core processors have featured in the i5 line-up. Like the other Coffee Lake processors, the i5-8400 is based upon an improved version of Intel's 14nm architecture which featured in both Skylake and Kaby Lake. Early benchmarks reveal that for average quad core usage (most games employ a maximum of four cores) the i5-8400 performs way above its pay grade. It achieves quad core mixed speeds close to Intel's outgoing 2017 flagship the $300, quad-core, 8 thread i7-7700k, which to date has been a strong favourite for high end gaming setups. On paper, the i5-8400 has a base clock of 2.8 GHz (Intel are significantly downplaying the performance of this SKU by giving it a relatively low nominal base clock), an all core boost of 3.8 GHz (this is the effective base clock figure that counts) and a single core boost of 4 GHz. This compares reasonably well to the i5-8600K which has a base clock of 3.6 GHz, all core boost of 4.1 GHz and a single core boost of 4.3 GHz. The i5-8400 also features 9MB of L3 cache and an power thrifty TDP of 65W. Priced at under $190, the i5-8400 offers fantastic value for money. Unfortunately, like the other Coffee Lake processors, the i5-8400 will require a new 300 series motherboard, and at the time of writing, the only available version is Intel's high-end Z370 which isn't an ideal pairing for the i5-8400. The Z series motherboards are designed to cater for the unlocked and overclockable "K" SKUs. Cheaper 300 series motherboards will be available in 2018 at which time the B400 will offer even better value for money. [Ex: 17 CPUPro]
MORE DETAILS

"The best yet" in 2018 [Ex: 18 quantumnoise]
MORE DETAILS

User Builds

6,462 — 876

Systems with these CPUs

MSI Z370-A PRO (MS-7B48) (573)	Asus PRIME B350-PLUS (46)
Asus PRIME Z370-P (421)	Asrock A320M Pro4 (46)
Gigabyte Z370 HD3 (351)	Gigabyte GA-A B350N-Gaming WIFI-CF (45)
Asrock Z370 Pro4 (342)	Asus ROG STRIX B350-F GAMING (43)
MSI Z370 GAMING PLUS (MS-7B61) (266)	Asrock A B350 Gaming-ITX/ac (40)
Asus TUF Z370-PLUS GAMING (244)	Asrock AB350 Pro4 (38)
Gigabyte GA-Z370P D3-CF (212)	MSI B350M GAMING PRO (MS-7A39) (33)

Custom PC Builder (Start a new build)

Build your perfect PC! Compare component prices, popularity, speed and value for money.

CHOOSE A COMPONENT:

CPU	GPU	SSD	HDD	RAM	MBD

Processor Rankings (Price vs Performance)

March 2018 CPU Rankings.

We calculate effective speed which measures real world performance for typical consumers. Effective speed is adjusted by current prices to yield a value for money rating which is geared towards gamers. Our calculated values are checked against thousands of individual user ratings. The customizable table below combines these factors to bring you the definitive list of top CPUs. [CPUpro]

ADVERTISEMENT

Group Test Results

Best user rated - User sentiment trumps benchmarks for this comparison.
Fastest real world speed - Real World Speed measures performance for typical consumers.
Best value for money - Value for money is based on real world performance and price.

How Fast Is Your CPU? (Bench your build)

Size up your PC in less than a minute.

Welcome to our freeware PC speed test tool. UserBenchmark will test your PC and compare the results to other users with the same components. You can quickly size up your PC, identify hardware problems and explore the best upgrades.

UserBenchmark of the month

Desktop — Gaming — Workstation

How it works

- CPU: Download and run UserBenchMark (UBM).
- GPU tests include: integer, floating and string.
- GPU tests include: six 3D game simulations.
- Drive tests include: read, write and mixed IO.
- Checks include: 4k Align, NCQ, TRIM, SATA, USB & S.M.A.R.T.
- RAM tests include: single/multi core bandwidth and latency.
- Reports are generated and presented on userbenchmark.com.
- Identify the strongest components in your PC.
- See speed test results from other users.
- Compare your components to the highest voted in class.
- Find the best upgrades.
- Share your opinion by voting.

Frequently Asked Questions

Processors FAQ

How does IPC compare between AMD's Ryzen and Intel's Kaby Lake?
What is multi core mixed speed?
What is multi core integer speed?
What is multi core floating point speed?
What is single core mixed CPU speed?
What is quad core mixed CPU speed?
What is quad core floating point speed?
What is quad core integer speed?
What is single core floating point speed?
What is single core integer speed?
What is the GeekBench single core score?
What is a CPU?
What is the effective CPU speed index?
What is overclocking?
What is thermal design power (TDP)?
What is the GeekBench score?

ALL FAQs »

Best User Rated

Intel Core i7-8700K — Intel Core i7-7700K — Intel Core i5-8600K — AMD Ryzen 5 1600 — Intel Core i5-8400 — AMD Ryzen 7 1700

Intel Core i5-7600K — AMD Ryzen 5 1600X — Intel Core i7-4790K — Intel Pentium G4560 — AMD Ryzen 7 1700X — Intel Core i7-6700K

The Best.

CPU
Intel Core i7-8700K 4.5GHz
Intel Core i7-7700K 4.5GHz
Intel Core i5-8600K 4.1GHz

GPU
Nvidia GTX 1070 [E]
Nvidia GTX 1080 Ti [E]
AMD RX 480 [E]

SSD
Samsung 850 Evo 250GB [E]
Samsung 850 Pro 512GB [E]
Samsung 850 Pro 256GB [E]

HDD
Seagate Barracuda 1TB (ST1000DM003) [E]
Seagate Barracuda 4TB (ST4000DM004) [E]
Seagate Barracuda 7200.14 1TB [E]

RAM
Corsair Vengeance LPX DDR4 3000 C15 2x8GB [E]
G.SKILL Trident Z DDR4 3200 C14 4x16GB [E]
Corsair Vengeance LPX DDR4 3200 C16 2x8GB [E]

USB
SanDisk Extreme 64GB [E]
SanDisk Extreme 32GB [E]
SanDisk Extreme 16GB [E]

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Test your PC — Build a PC

FPS Estimates

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