

[Skip to main content](#)

r/intel



Search in r/intel

[Log In](#)

r/intel • 1 yr. ago
lasagna_enjoyer



[GUIDE] How to make your i9 12900K incredibly efficient

Overclocking

Hello, I'd like to share with you on how you can improve the efficiency of your i9 12900K tremendously. It's going to work on any CPU really.

Step 1 - Undervolting

1. Enter BIOS
2. Go into CPU settings or advanced CPU settings
3. Edit Dynamic VCore voltage, set it to -50mV (-0.050V)
4. Keep benchmarking it and progressively go down by -10mV each time, or immediately go up to -100mV and work your way down if it's unstable (or up, if it's good!)

Step 2 - Power Limit

[Read more](#) ▾

Archived post. New comments cannot be posted and votes cannot be cast.



10



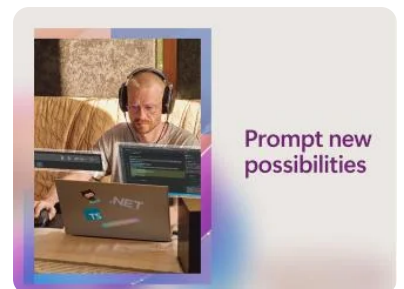
5



Share

**Microsoft** • Promoted

POV: You're building the next big thing with VS Code extensions and GitHub Copilot.

[Learn More](#)developer.microsoft.comSort by: **Best** ▾

Search Comments



Affectionate-Memory4 • 1y ago

[Skip to main content](#)

intel

[Log In](#)

bothered testing down lower as I'm happy to be done tinkering and just use my PC instead. I think a large portion of my apparent performance scaling is that my E-cores magically gained 100mhz somewhere along the way.

  2 **lasagna_enjoyer** OP • 1y ago

You've told us about the performance drop compared to no power limit, could you elaborate by also sharing info about your thermals before and after? That's the most exciting part, for me at least.

 1  ... 1 more reply**AutoModerator** MOD • 1y ago

Hello! It looks like this might be about cooling that violates [our rules](#) on [r/Intel](#). Modern CPUs are designed to run hot. Just like 95C is normal for AMD Ryzen CPUs, 100C is normal for Intel CPUs in many workloads. If your post is about a cooling problem, please delete this post and resubmit it to [r/buildapc](#) or [r/techsupport](#). If not please click report on this comment and the moderators will take a look. Thanks!

I am a bot, and this action was performed automatically. Please [contact the moderators of this subreddit](#) if you have any questions or concerns.

 0  ...**[deleted]** • 1y ago

This also works on other CPUs although you might want to set different power limits for each

I do -60 MV on my r9 5900X

Edit one thing you could try is soc voltage

Soc is always at the same voltage idle and load so it's a significant draw on idle power I was able to drop mine from 1.18v to 0.95V saving around 3 watts at idle and without changing power limits this gave me a small boost in cinebench

 0  ...**r/buildapc** • 3 mo. ago

I have a 12th gen intel core i9-12900k and nvidia GeForce rtx 3060 and a prime z790-v WiFi motherboard should I upgrade?

1 upvote · 50 comments

[Skip to main content](#)

intel

[Log In](#)[11 comments](#)

r/intel • 3 yr. ago

what is the difference between the 12900k and 12900ks[3 upvotes](#) · [12 comments](#)

PROMOTED

...



**You build the future.
We'll handle security.**

Create next-gen apps with
responsible AI and built-in security.

[Get started](#)

r/buildapc • 2 mo. ago

i9-12900K ... should I buy?[16 upvotes](#) · [40 comments](#)

[Skip to main content](#)

intel

[Log In](#)

126 upvotes · 42 comments



r/intel • 3 yr. ago

Core i9-12900K: Performance & efficiency at various power limits (2W to 250W)

65 upvotes · 20 comments



r/buildapcsales • 2 mo. ago

[CPU] Intel Core i9-12900K - Core i9 12th Gen Alder Lake 16-Core (8P+8E) 3.2 GHz LGA 1700 125W Intel UHD Graphics 770 Desktop Processor - BX8071512900K w/ promo code BFEDY2A34 - \$254.99 (279.99...

19 upvotes · 46 comments



r/hardware • 2 yr. ago

Intel claims the i9-13900k's performance at 65w matches the i9-12900k at 241w

1K upvotes · 224 comments



PROMOTED

...

Microsoft

AI with a higher IQ

Build your way with Azure AI Foundry's ready-to-code offerings.

[Start making](#)



r/intel • 7 days ago

Intel claims my i7-13700K from Best Buy is counterfeit - Need advice

221 upvotes · 244 comments



r/intel • 4 days ago

Intel debuts bold modular laptop design for the right-to-repair movement

180 upvotes · 49 comments

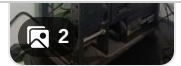


[Skip to main content](#)

intel

[Log In](#)

ranquei tudo fora + um sabonete do lado do PC



20 upvotes · 23 comments



r/pcmasterrace • 2 yr. ago

What does NA mean? This is supposed to be an i9-12900K from Best Buy.



38 upvotes · 35 comments



r/intel • 2 yr. ago

New i9 12900k having low Cinebench score

22 upvotes · 26 comments



r/intel • 22 days ago

Intel is 'confident' about next-gen Arc Celestial GPUs following Battlemage's success



323 upvotes · 47 comments



r/buildapc • 6 mo. ago

Torn between i9 12K vs Ryzen 7 7K

15 comments



r/intel • 1 yr. ago

Instantaneous Thermal Throttling on 12900K/13900KS with Noctua D15 - what can I improve?

7 upvotes · 34 comments



r/intel • 17 days ago

Intel starts to make its mark in new GPU sales stats with the Arc B580, just ahead of B570 release



171 upvotes · 49 comments



r/intel • 2 yr. ago

Should I i7 12700k or i9 12900k for 4K video editing?

3 upvotes · 6 comments



r/intel • 2 yr. ago

i9-12900k Undervolting

[Skip to main content](#)

intel

[Log In](#)

Core i9-12900K: Performance & efficiency at various power limits (2W to 250W)

298 upvotes · 90 comments



r/buildapc • 7 mo. ago

Need Help Deciding Between i9-12900K vs i9-13000K processors

2 upvotes · 21 comments



r/buildapc • 1 yr. ago

4070 Ti Super + i9 12900k. Good match or worthy of CPU upgrade?

4 upvotes · 13 comments



r/intel • 3 yr. ago

i9-12900K Undervolting

11 upvotes · 9 comments



r/intel • 3 yr. ago

Should I get an i7-12700K or an i9-12900K?

9 upvotes · 40 comments



r/intel • 15 days ago

Intel Core i9-14900KF sets new frequency world record at 9121.61 MHz

98 upvotes · 12 comments



Related discussions

[Best I9 Processor](#)[Best I9 Laptop](#)

TOP POSTS



Reddit



Log In



Reddit

reReddit: Top posts of September 2023



Reddit

reReddit: Top posts of 2023