Recently, a renewed push has been made by researchers to increase Ethereum's throughput by:

a) Increasing the gas limit (see also https://pumpthegas.org/)

b) Increasing blob throughput, which is slated for Pectra.

x.com

Dankrad Feist

@dankrad

I think it is time we increased the gas limit.

If you run a validator, you can contribute to this -- every block acts as a vote on whether to increase it. If more than 50% of the stake agrees to an increase, the gas limit will increase.

I just set my validators to vote for up… x.com/i/web/status/1… x.com/fede_intern/st…

[Fede's intern   @fede_intern

](https://twitter.com/fede_intern/status/1863348249521721769) Why aren't we solving the approve thing and double the gas limit like asap?

I am honestly asking. What else is more urgent than these two things? Hardware performance more than doubled since the last gas limit increase.

2:40 AM - 2 Dec 2024 340

65

Personally, I think changes like this should come about as a result of community consensus and not via mandating increased gas limits to Node Operators participating in protocols, for two chief reasons:

1. It is difficult to assess ahead of time exactly what effects this will have on the network (in this case specifically, especially to solo stakers), and I personally believe in node operators retaining responsibility and ownership of client configuration to the extent possible

2. the solutions for state growth (eg EIP 4444) are things that have been worked on quite a bit but are still not super close. We've gone from suggesting 1TB harddrives for home operators, to 2TB, to 4TB. Additionally, increased blob throughput AND higher gas limit are going to cause additional strain, especially on bandwidth for home stakers.

My personal suggestion would be that if the community collectively moves to try to increase the gas limit, it should probably try to do so sometime before Pectra (e.g. starting in January, as @jgm has made a good point that no one wants to troubleshoot network effectiveness over winter holidays). This will give network participants a little bit of time to assess impact on the network and analyze their own performance and avoid a "double-whammy" of trying to accommodate both increased gas limit and blob count.

I would like to propose that this thread is used to:

1. assess node operator sentiment and willingness to participate in an effort to increase the gas limit. In general this kind of thing will only make a large impact on the network if a substantial portion of the network follows suit.

2. entertain strong arguments for/against, in order to try to drive at least Lido community consensus