Hi all,
I've been diving into the Shasper spec and have been crunching some numbers on what it will mean for network throughput. I'm looking for some input on my calculations as well as a question I have on block gas limit.
Here is what I have right now. Everything on the "current chain" section are real numbers with no assumptions.
Value
Current Chain

Shasper

shards

1

1024

block(slot) time

14.5

8

blocks/minute

4.1

7680

blocks/day

5,959

11,059,200

blocks/year

2,174,896

4,036,608,000

block gas limit

8,000,000

8,000,000*

daily gas cap

47,668,965,517

88,473,600,000,000

avg gas/tx

76,364

76,364

624,237
1,158,582,857
tx/min
434
804,571

tx/sec

7.2

13,410

My main question revolves around block gas limit. What are the thoughts on how much this can increase under Shasper? I'm currently keeping the assumption at the same limit but assume this can go way up.

Any feedback is appreciated!