

Should builder block submissions set a different gas limit than what proposer specified?

## Context

- When Flashbots builder builds a block, it adheres strictly to proposer gas limit when setting the header for the built block.
- For example, if on registration a proposer sets gas limit to 30\_000\_000

, Flashbots builder will set header gas limit to 30\_000\_000

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- Strict adherence to proposer gas limit is problematic. If the proposer's gas limit exceeds what's allowed by the protocol, relays will reject the builders block.
- For example, consider when a parent block has gas limit of 29\_900\_000

. The protocol would only allow child block gas limit up to 29\_929\_199

. If the proposer's gas limit of 30\_000\_000

is used, builder block gets rejected

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## Proposal

- Rather than strict adherence to proposer gas limit, we'd like to explore a "best-effort" approach where Flashbots builder attempts to move towards

proposer's gas limit while staying within protocol limits. \* For example if proposer has gas limit of 30\_000\_000

and protocol allows up to 29\_929\_199

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## Question

- Should builder block submissions set a different gas limit than what proposer specified? Are there downsides or implications with this approach?

We would appreciate feedback from the community on this proposal, and encourage all to voice their questions and concerns! Please let us know your thoughts - we'd like to make a decision in a week assuming there are no significant concerns.