

Hi all,

I've been monitoring the ProposerPayloadsDelivered

and BuilderBlocksReceived

endpoints of the relay api for some time now and I have come across many cases where the proposed payload had a value smaller than another block submitted to a different relay or even the same relay. After some discussion on the Flashbots discord, I've decided that I want to quantify this "unrealized" amount and made a hack over the [mevboost.org repo](https://github.com/mevboost/mevboost).

I fetched the highest value block submitted to each relay for each slot (using the BuilderBlocksReceived endpoint). Then, for each delivered payload, I checked whether it is the highest value block proposed to any relay (including the relay that delivered the payload) for that specific slot. If it is not the case, then I labeled the value difference between the "largest value block" and the delivered payload as "unrealized value".

My syncing process just ended and here are the first results:

[

Screenshot 2022-10-09 at 13.56.02

2842×690 123 KB

](<https://collective.flashbots.net/uploads/default/original/1X/95eb9c0c5ddf73ba92192953e21b53b6f6e21564.png>)

Happy to hear any feedback!

PS: In slot [4849684](#), the block which was delivered as the payload (0x2dcc0c3e5d30a714342e9ebdaf425db57188ca371e021f6d38d098a8c9033f6e) was submitted 1 sec before the first 465 ETH block