

[@CPerez](#) [@oskarth](#), Violet, and Chiro had a presentation at the zk residency group for about the future verifiable computation researches, and mentioned that "WASM does not have a gas model, so the computation is unbounded."

So I'm just bringing up an idea here about how to use the gas model in the verifiable computational schemes.

This is a slide that I'm using that why we should contribute to the Ethereum scaling

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Untitled drawing

1493×282 101 KB

](<https://ethresear.ch/uploads/default/original/2X/6/6a6de9196c5fb7ba954e29c3a96444494bba12b7.png>)

So one of the future scaling is something like the end-clients compute something on their devices and submitting a proof instead of letting other execution layer nodes to run all the computations.

In this scenario, we can have an Edge Computing Interface such as

execution(function, input vars, state refs, proof) -> output vars: {[key]: value}

Then, the execution layer nodes updates the state by the output vars

, and we can make the gas cost just depends on the length of the output vars.

Just a quick idea sharing