At Flashbots, we are exploring trusted execution environments (TEEs) such as SGX, as well as other privacy technologies such as Multi-Party Computation and Homomorphic Encryption, as important building blocks for trustless collaboration along the transaction supply chain. This is particularly relevant for applications such as decentralized block building and sharing private orderflow.

In collaboration with konVera, a software development company with strong expertise in confidential computing, we have achieved a fully working prototype of Geth running inside SGX and syncing with Ethereum mainnet.

writings.flashbots.net – 20 Dec 22

Running Geth within SGX: Our Experience, Learnings and Code | Flashbots

We are happy to publish our efforts and a number of key learnings about running Geth inside SGX, for others to reuse, experiment with, and build upon.

You can find the code at GitHub - flashbots/geth-sgx-gramine: Geth-in-SGX provides an example of running go-ethereum in SGX.

We hope this is useful to others, and want to invite open research and collaboration!