At Flashbots, we've been exploring block building inside trusted execution environments (TEEs) since 2022. Initially focusing on Intel SGX, and most recently also Intel TDX.

Our experimental TDX builder (Illuminate Dmocrtz Dstrib Prtct

) has landed several blocks on Ethererum Mainnet so far. The first TDX-built block was at [slot 8970311](#) / [block 19767105](#) (Apr-30-2024 09:02:35 UTC).

Compared with prior experiments, TDX appears to introduce minimal overhead relative to non-TEE builders. We will follow up in the near future with more information and data.