The MEV Letter

is a weekly collection of papers, articles and resources related to MEV. The intention of this letter is to provide a comprehensive summary of the latest research, discussions, and developments in the space, with links for further reading.

Papers & Articles

- Searching in TDX by @artyom, @fnerdman, @angelfish , and @Moe details the deployment of the top atomic arbitrage bot 0x3face inside TDX to trustlessly capture bottom-of-block arbitrages within rsync-builder without exposing frontrunning risks.

- Post by @angelfish

- Post by 0xprincess

- Post by @socrates1024

- Post by @angelfish

- Post by 0xprincess

- Post by @socrates1024

- Dstack: speedrunning a p2p Confidential VM by @socrates1024 presents Dstack as a prototype for making P2P self-replicating confidential VMs.

- Understanding Minimum Blob Base Fees by @dataalways explains current blob pricing and the impacts of implementing a minimum base fee in blobspace.

- Thread by @dataalways

- Thread by @dataalways

- Tackling Blob Fee Slippage with Preconfirmations by Primev explores the challenges faced by the blob market during the congestion in June with high fees and prolonged inclusion times.

- Thread by Primev

- Thread by Primev

- FOCIL CL & EL workflow by Thomas Thiery outlines the latest FOCIL implementation and defines the roles and duties of IL committee members, nodes, proposers, and attesters.

- Post by Thomas Thiery

- Post by Thomas Thiery

- Early Thoughts on Decentralized Root-of-Trust by @h4x3rotab presents a decentralized Root-of-Trust model to serve as the foundational trust anchor for a TEE network, removing dependencies on specific TEE manufacturers or cloud providers.

- Proposal: Delay stateRoot Reference to Increase Throughput and Reduce Latency by Charlie Noyes and Max Resnick proposes delaying the stateRoot calculation to the following block in order to reduce latency and free up capacity to increase L1 throughput.

- Thread by Charlie Noyes

- Thread by Charlie Noyes

- Are Retail LPs Going Extinct? Exploring the MEV Supply Chain by Arrakis Finance outlines how searchers extract MEV from LPs on AMMs, and how their upcoming AMM HOT is designed to protect LPs from toxic flow.

- Thread by Arrakis Finance

- Thread by Arrakis Finance

- Arbitrum I love you, but you're bringing me down. by joshua criticizes Arbitrum's decision to implement Timeboost, arguing it will enable more MEV extraction and negatively impact users.

- Thread by joshua

- [Thread](#) by [joshua](#)

- [How to Simulate MEV Arbitrage with REVM, Anvil and Alloy](#) by [Pawel Urbanek](#) details how to use Anvil and REVM to detect and simulate arbitrage strategies on Uniswap V3.

- [Protocol-Enshrined Sidecars: Against Blockchain Minimalism](#) by [Ryan Chern](#) highlights the benefits of enshrining sidecars, like MEV-boost, into the Ethereum protocol.

- [Thread](#) by [Ryan Chern](#)

- [Thread](#) by [Ryan Chern](#)

- [WTF are Based Rollups?](#) by [BREAD](#) provides an overview of based rollups and how they differ from traditional rollups.

Posts & Threads

- [@stephen](#) published a [series of threads](#) unraveling various searcher strategies via the [EigenPhi](#) explorer.

- [Day 2: Validator eats, trader cries](#)

- [Day 3: Backrun and hold](#)

- [Day 4: Searcher-builder hiding MEV](#)

- [Day 5: MEV bot vs Rug Scam token](#)

- [Day 2: Validator eats, trader cries](#)

- [Day 3: Backrun and hold](#)

- [Day 4: Searcher-builder hiding MEV](#)

- [Day 5: MEV bot vs Rug Scam token](#)

- [Commit-Boost](#) published a [thread](#) to announce that [Commit-Boost](#) is moving towards audit and production.

- [Post](#) by [EigenLayer](#)

- [Thread](#) by [EigenLayer](#)

- [Thread](#) by [EigenLayer](#)

- [Thread](#) by [Titan Builder](#)

- [Thread](#) by [Figment](#)

- [Thread](#) by [Espresso Systems](#)

- [Thread](#) by [Arthursw.eth](#)

- [Post](#) by [0xyanshu](#)

- [Post](#) by [EigenLayer](#)

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- [Thread](#) by [Figment](#)

- [Thread](#) by [Espresso Systems](#)

- [Thread](#) by [Arthursw.eth](#)

- [Post](#) by [0xyanshu](#)

- [Austin Adams](#) published a [thread](#) highlighting that 92% of the ETH/USDC volume on [Aerodrome](#) comes from bot-like transactions, resulting in LVR for LPs.

- [@sui414](#) published a [thread](#) highlighting that 80% of Ethereum DEX swaps are now going through private mempools,

increasing by 2x in the last 6 months.

- [@shea](#) published a [thread](#) to highlight the currently [open roles](#) in the Flashbots product team.

- [Arindam Singh](#) published a [thread](#) detailing their work on implementing a heuristics-based transaction censorship detection in the [Nethermind](#) client.

- [Post](#) by [Marek Moraczyński](#)

- [Post](#) by [Marek Moraczyński](#)

Talks & Discussions

- [Recordings](#) from [2024 TLDR Conference](#) by [tldresear.ch](#) have been uploaded with sessions on MEV, block building, DEX design, and more.

- [Recordings Day 1](#)

- [Recordings Day 2](#)

- [Recordings Day 1](#)

- [Recordings Day 2](#)

- [ePBS (EIP-7732) breakout room #10](#) hosted by [Potuz](#) discussed client updates, withdrawal processing, and open questions.

- [Agenda](#) by [Potuz](#)

- [Notes](#) by [Terence Tsao](#)

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- [Notes](#) by [Terence Tsao](#)

- [Proposer Commitments in Ethereum](#) hosted by [Blockworks](#) invites [Drew Van der Werff](#), [Justin Drake](#), [Simon Brown](#), and [Michael](#) to discuss [Commit-Boost](#) and the future of proposer commitments on Ethereum.

Other

- [Phala's Recap of TEE.salon Singapore: GPU TEE and more](#) by [@h4x3rotab](#) shares their takeaways from the latest TEE.salon

- [The handwavy case for EIP 7732](#) by [Potuz](#) outlines the high-level benefits of [EIP-7732](#) for validators, builders, and proposers.

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