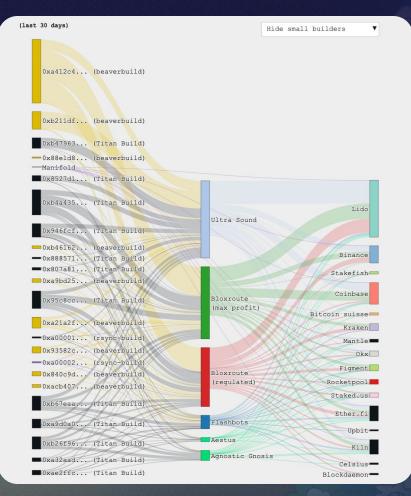


### 1. Trust & centralisation

Trust assumptions and centralizing forces on the base layer threaten credible neutrality of the chain.

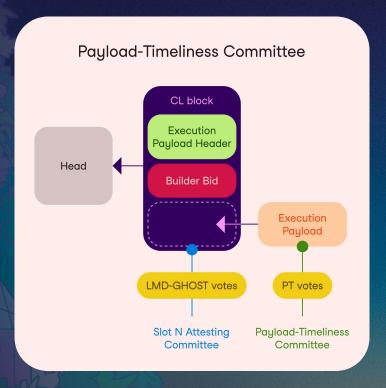
Ethereum is proud to have >1M validators, but the content of over 90% of blocks is chosen by two well known entities.

Trust assumptions break non repetitive high value interactions (e.g. front-running hacks).



### 2. Enshrining PBS will be impossible very hard





1 Adds complexity to the base layer

Adoption remains unclear as some features are simply not possible in a p2p network

- | Bid cancellation
- I Latency optimisations from co-location

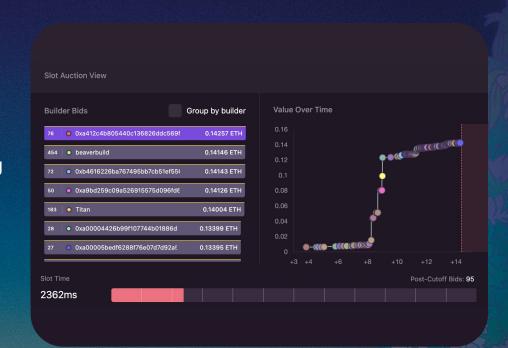
### 3. PBS maximizes harm inflicted on users



PBS is trying to solve MEV by maximizing its extraction in an out-of protocol auction.

It gives searchers advanced tools to accurately and specifically target the ordering of individual transactions in a block.

The optimal outcome in the PBS auction is the worst outcome for users (traders, borrowers, LPs) – extracting the most possible value.

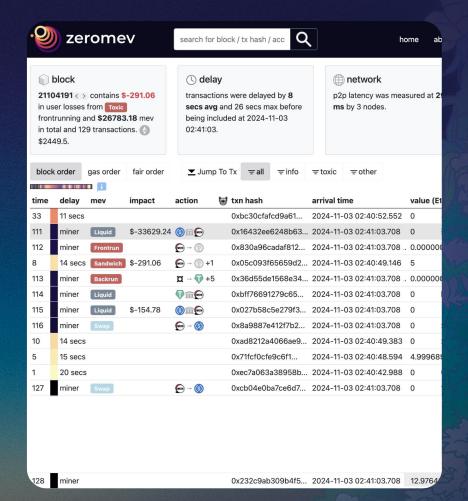




## 3. One asset, one block, many prices

- CEX/DEX arbitrage
- 2 Sandwich/swap MEV
- 3 Liquidations

Buying low and selling high allows the block producer to make a risk free profit.





# DeFi mechanisms are built on the (false) premise of continuous time



# Multi dimensional batch auctions with single price clearing



One price, per token, per block. Trading the same asset in the same block should lead to same execution regardless of trade ordering

Asset	Price	Trades
ETH	\$3100	0x2473 0xb61b
WBTC	\$85000	0x9caa 0xf437 0x8a84
WSOL	\$220	0xb61b

as pioneered by CoW Protocol

### Offering MEV protection for



#### **Swaps**

Traders buying or selling the same asset receive the same price regardless of ordering and can even be matched directly in what is known as a "Coincidence of Wants" (CoW)

#### **AMMs**

By making LPs part of the batch and treating them like swappers, LPs no longer trade at outdated prices and rebalance at the new equilibrium price instead

### Liquidations

Stop loss orders can be treated like regular orders and ensure collateral recovery at the best possible price if the value of an asset falls below a threshold



>97%

of all MEV is DEX related

– Dune (Query <u>3740004</u>)



Let's fix the mechanism, not complexify the base layer

