

MEV Opportunity Dashboard

Real-time monitoring of MEV opportunities in Ethereum mainnet

Auto-refresh: 30s Last updated: 03:59:16

Total Transactions

20

Past 24 hours

High-Value Opportunities

20

High or Very High score

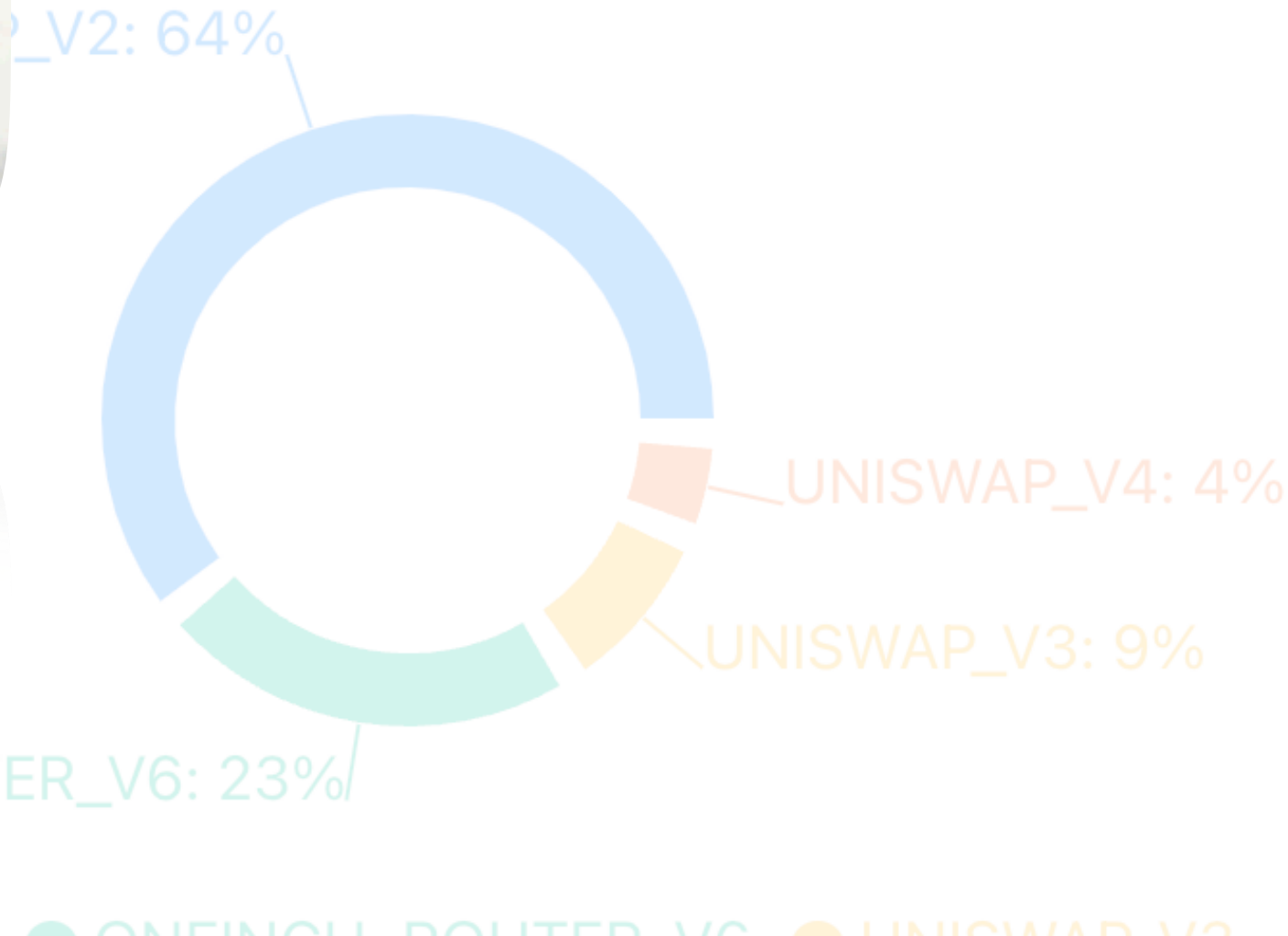
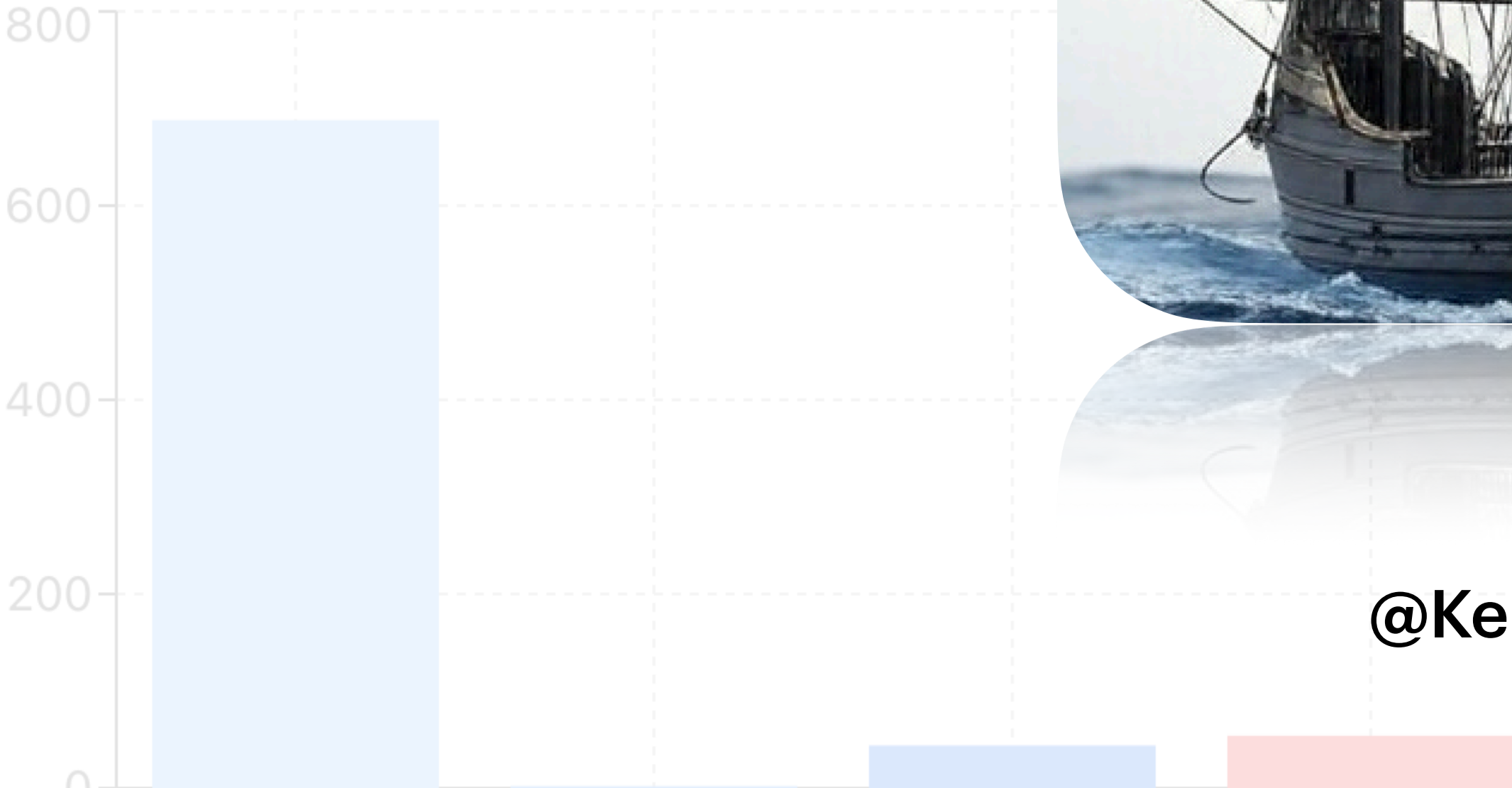
736.0000

Average Slippage

89.68%

Across all transactions

Slippage Distribution



@KernelKennethG

Proposer-Builder Separation (PBS)

Total Transactions

20 **What is PBS?**

Past 24 hours

High-Value Opportunities

20

High or Very High slippage

Total MEV Value

1739190344795828736.0000

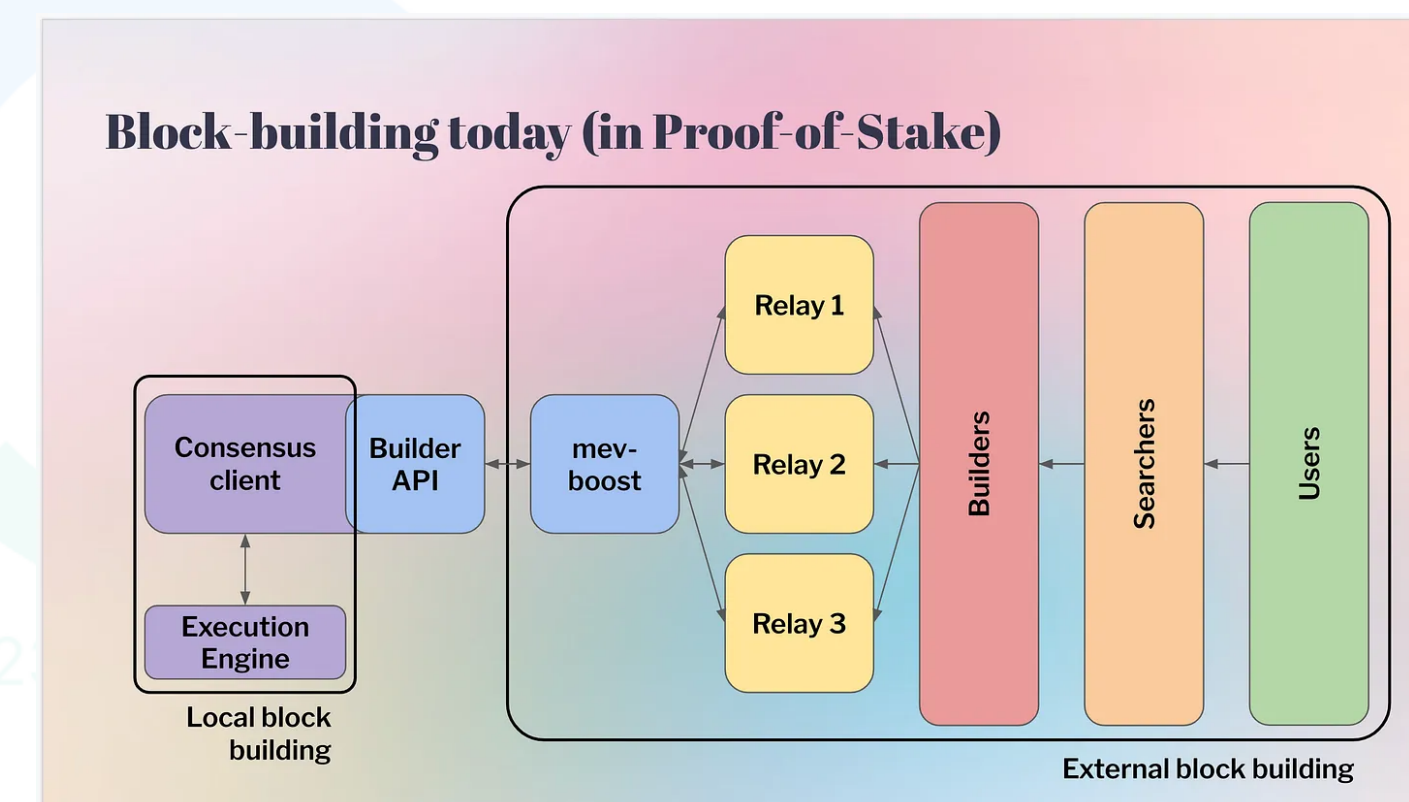
GWEI

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89.68%

Across all transactions

- A mechanism in Ethereum where the task of creating blocks (building) is separated from the task of proposing them to the network.
- Block builders assemble and order transactions
- Block proposers, typically validators, select the most profitable block (usually from relayers) to propose without initially knowing its contents (only knowing it's header, the stateRoot).



Proposer-Builder Separation (PBS)

Total Transactions

20 **Why PBS?**

Past 24 hours

High-Value Opportunities

20

High or Very High slippage

Total MEV Value

1739190344795828736.0000

GWEI

Estimated extractable value

Average Slippage

89.68%

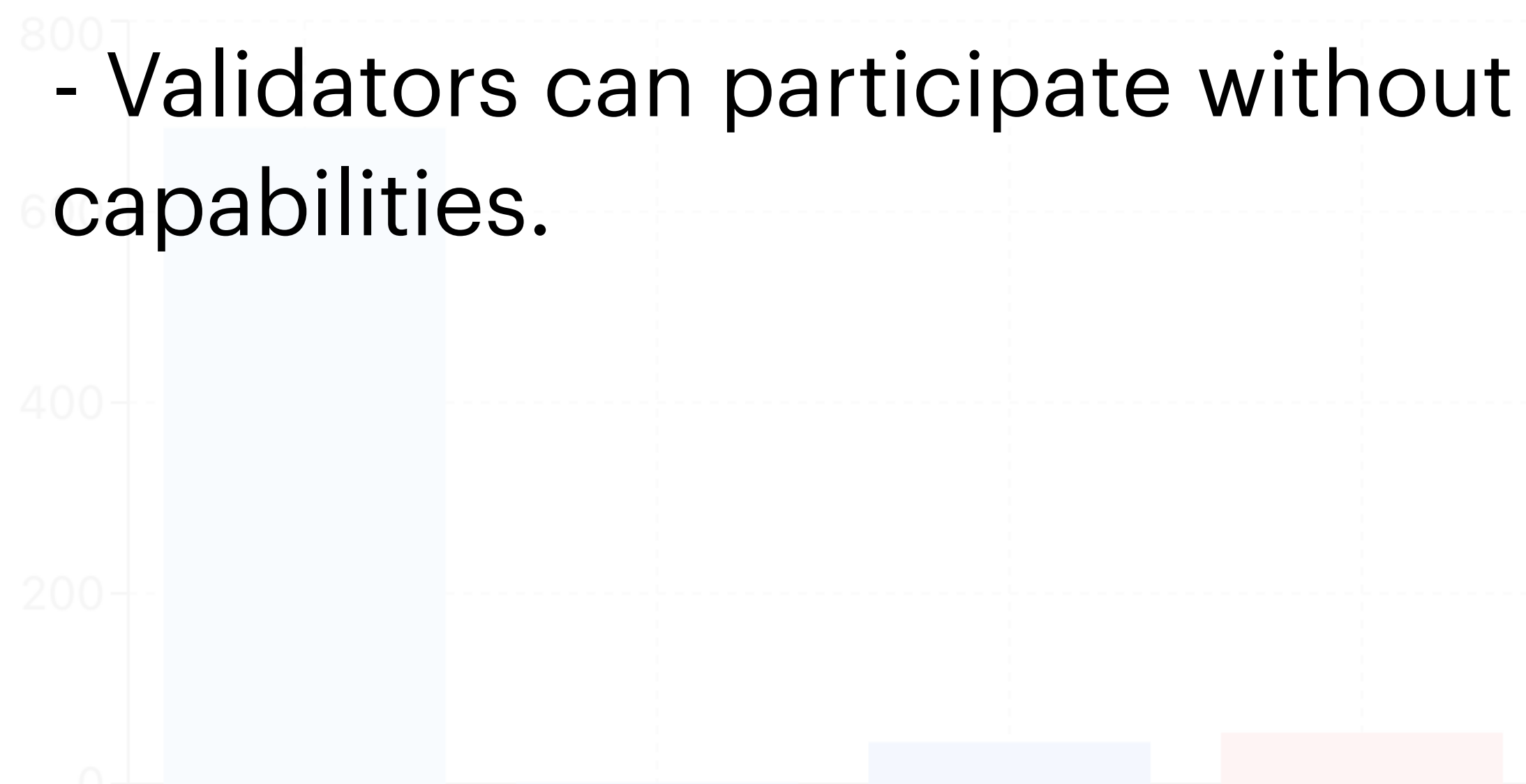
Across all transactions

- Makes it harder for builders to exclude transactions unfairly.

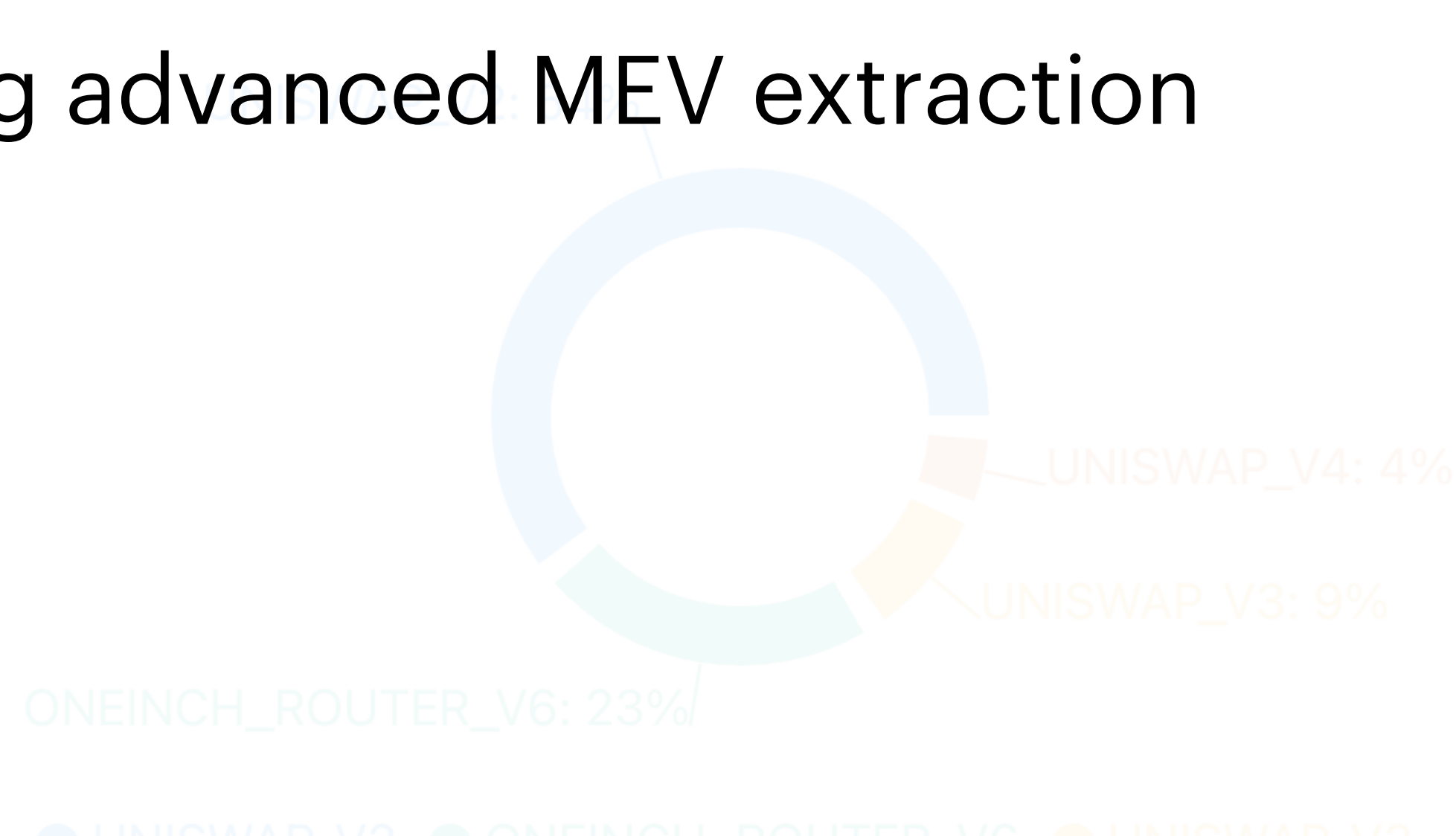
- Seen as a foundation for future upgrades like Danksharding, increasing Ethereum's scalability.

- Validators can participate without needing advanced MEV extraction capabilities.

Slippage Distribution



DEX Distribution



Maximal Extractable Value (MEV)

Total Transactions

20

Past 24 hours

High-Value Opportunities

25

High or Very High slippage

Total MEV Value

1721523478532736.0000

GWEI

Estimated extractable value

Average Slippage

8.68%

Across all transactions

MEV represents the profit from reordering, inserting, or censoring transactions.

- **Front-running:** Placing a transaction ahead of a known upcoming transaction to profit from price movements.
- **Backrunning:** Inserting a transaction immediately after another to capitalize on the state change, such as arbitraging price differences post-trade.
- **Sandwich Attacks:** Surrounding a user's transaction with buy and sell orders to manipulate the price, often to the user's detriment.

Slippage Distribution

800

600

400

200

0

DEX Distribution

UNISWAP_V2: 64%

UNISWAP_V3: 9%

ONEINCH_ROUTER_V6: 23%

UNISWAP_V3: 4% ONEINCH_ROUTER_V6: 23% UNISWAP_V2: 64%

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The MEV Market

Relay	Payloads	Percent
relay.ultrasound.money	2,168	31.92 %
bloxroute.max-profit.blxrbdn.com	1,809	26.64 %
bloxroute.regulated.blxrbdn.com	1,535	22.60 %
titanrelay.xyz	865	12.74 %
boost-relay.flashbots.net	234	3.45 %
agnostic-relay.net	94	1.38 %
aestus.live	65	0.96 %
relay.edennetwork.io	18	0.27 %
mainnet-relay.securerpc.com	3	0.04 %

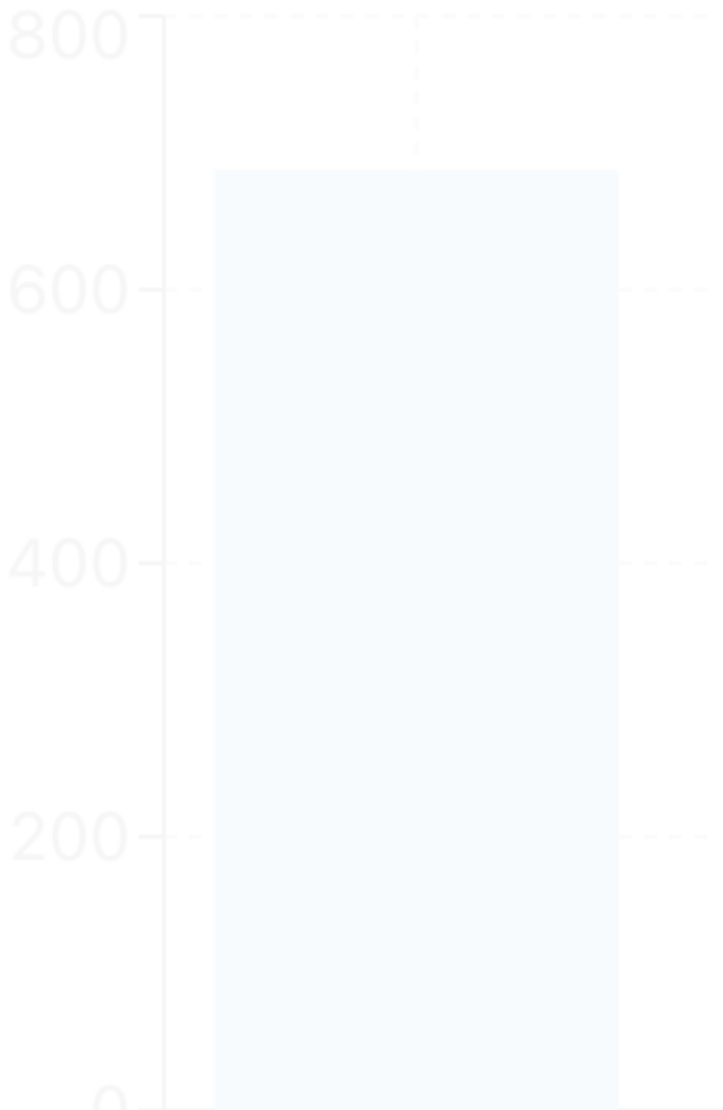
Builder (extra_data)	Blocks	Percent
beaverbuild.org	1,496	45.75 %
Titan (titanbuilder.xyz)	1,461	44.68 %
rsync-builder.xyz ⓘ	157	4.80 %
BuilderNet (Flashbots)	28	0.86 %
Builder+ www.btc.com/builder	25	0.76 %
BuilderNet (Nethermind)	24	0.73 %
Quasar (quasar.win)	22	0.67 %
iobuilder	17	0.52 %
bobTheBuilder.xyz	14	0.43 %
BuilderNet (Beaver)	10	0.31 %
gigabuilder.io	4	0.12 %
BuildAI (https://buildai.net)	4	0.12 %
Ty For The Block	2	0.06 %
boba-builder.com	2	0.06 %
MevRefund - 1, Bad guys - 0	1	0.03 %
Powered by bloXroute	1	0.03 %
smithbot.xyz	1	0.03 %
GrizzlyBuilder	1	0.03 %

Total Transactions

20

Past 24 hours

Slippage Distribution



Average Slippage

9.68%

Loss across all transactions

UNISWAP_V4: 4%

UNISWAP_V3: 9%

UNISWAP_V2

UNISWAP_V2

UNISWAP_V2

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mainnet-relay.securerpc.com	3	0.04 %

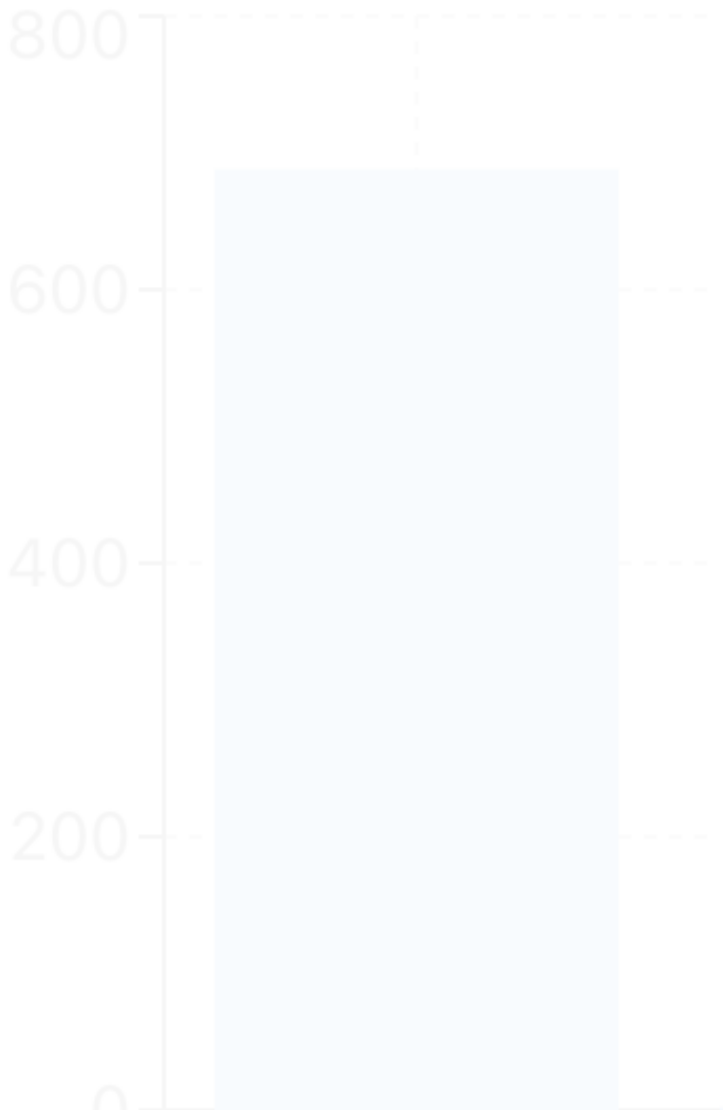
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20

Past 24 hours

Slippage Distribution



Average Slippage

9.68%

Loss across all transactions

UNISWAP_V4: 4%

UNISWAP_V3: 9%

UNISWAP_V2

UNISWAP_V2

UNISWAP_V2

MEV Opportunity Dashboard

Real-time monitoring of MEV opportunities in Ethereum

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Total Transactions

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Past 24 hours

High-V

20

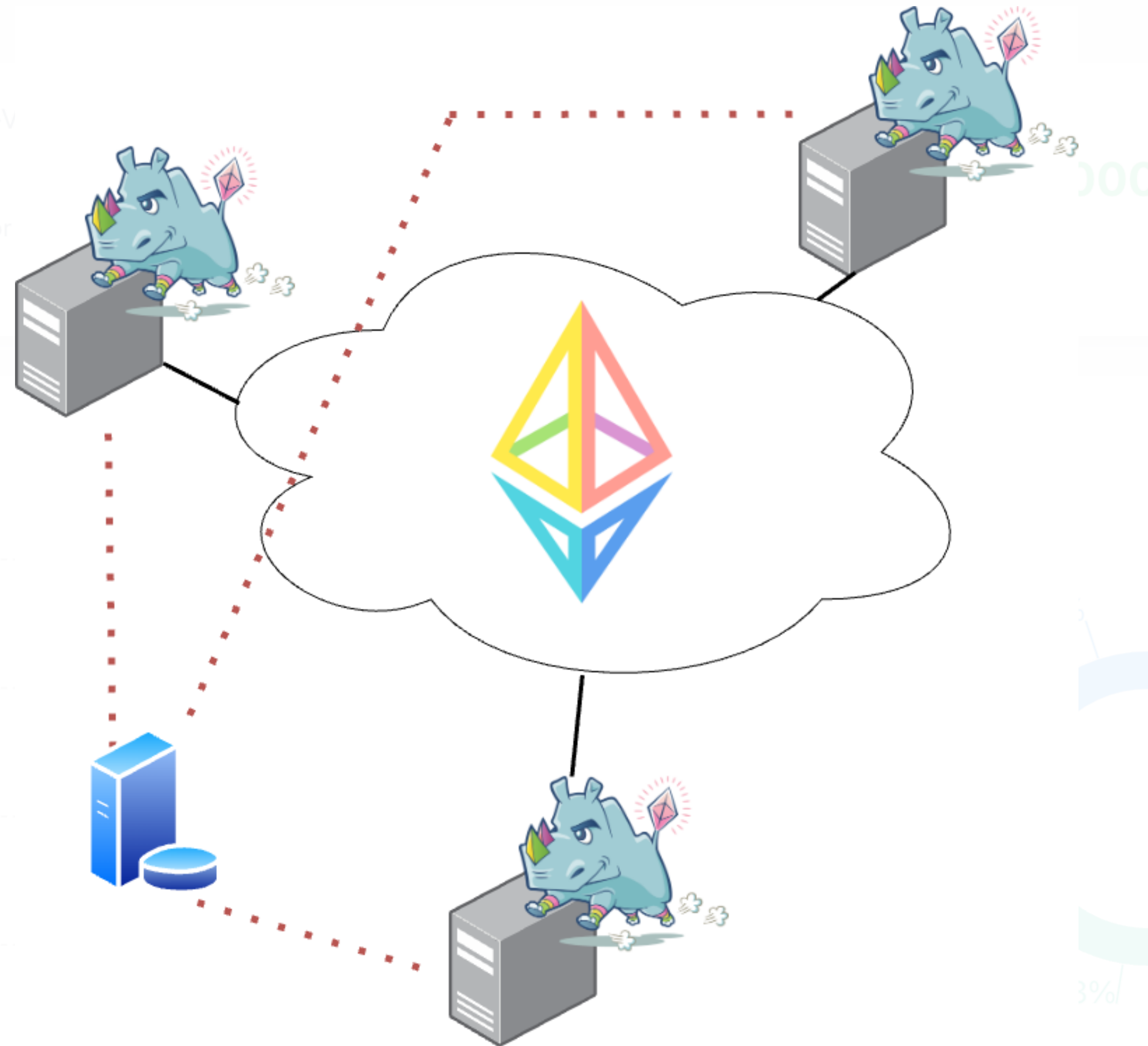
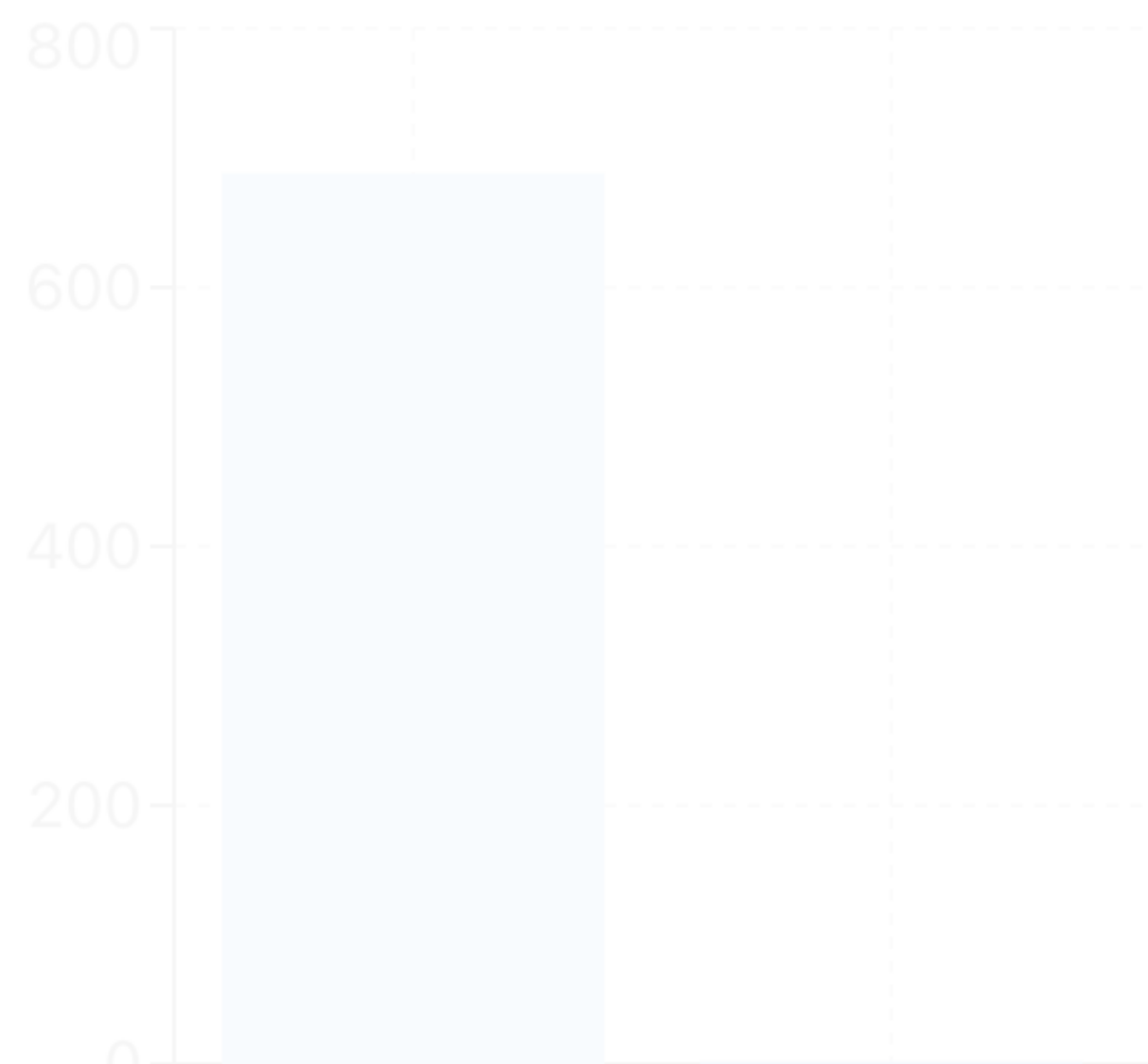
High or

Average Slippage

89.68%

Across all transactions

Slippage Distribution



MEV Opportunity Dashboard

Real-time monitoring of MEV opportunities in Ethereum mempool

Auto-refresh: Last updated: 03:59:16

Uniswap

```
const uniswapV4Decoder = (transaction) => {
  let uniswapV4Interface;
  if (ethers.Interface) {
    uniswapV4Interface = new ethers.Interface([{"inputs":[{"components":[{"internalType":"address","name":"permit"}]}]}]);
  } else {
    throw new Error("Ethers.js Interface not found - check ethers version");
  }
  let rawDecoded = uniswapV4Interface.parseTransaction({ data: transaction.input, value: transaction.value });
  // Add a custom replacer function to convert BigInt to strings
  console.log(JSON.stringify(rawDecoded, (key, value) =>
    typeof value === 'bigint' ? value.toString() : value
  ));

  return rawDecoded
}
```

```
async function getV2Slippage(v2RawDecoded) {
  // v2RawDecoded.fragment.inputs = amountIn|uint256, amountOutMin|uint256, path|address[], to|address, deadline|uint256
  // v2RawDecoded.fragment.outputs = amounts | unit256[]
  let tradingPath = []
  let amountOutMin = 0n; // Use BigInt literal

  switch (v2RawDecoded.name) {
    case "swapExactTokensForTokens":
      tradingPath = v2RawDecoded.args[2]
      break;

    default:
      break;
  }

  let quote = tradingPath.length > 0 ?
    await getMultiQuote(tradingPath[0], tradingPath[tradingPath.length - 1], 3000, v2RawDecoded.args[0])
    : {};

  let slippageAbsolute = 0n; // Use BigInt literal
  let slippagePercentage = 0;
```

```
async function getMultiQuote(tokenInAddress, tokenOutAddress, fee = 3000, amountInWei) {
  // Common fee tiers used by Uniswap V3
  const feeTiers = [100, 500, 3000, 10000]; // 0.01%, 0.05%, 0.3%, 1%

  // If the specified fee is not in our standard tiers, add it to the beginning of the array
  if (!feeTiers.includes(fee)) {
    feeTiers.unshift(fee);
  }

  // Keep track of all errors for detailed reporting if all attempts fail
  const errors = [];

  // Try each fee tier
  for (const currentFee of feeTiers) {
    try {
      // Get token details
      let tokenInDetails = await getTokenDecimals(tokenInAddress, provider);
      console.log(`Attempting quote with fee tier: ${currentFee / 10000}%`);
      console.log("tokenInDetails:", tokenInDetails);

      // Check if provider is connected
      const blockNumber = await provider.getBlockNumber();
      console.log('Connected to network at block:', blockNumber);

      // Convert to BigInt to ensure proper handling
      const amountIn = BigInt(amountInWei.toString());

      // Format for readable output
      const amountInHuman = ethers.formatUnits(amountIn, tokenInDetails.decimals);
      console.log(`Amount in human-readable: ${amountInHuman} ${tokenInDetails.symbol}`);

      // Encode the path
      const path = ethers.solidityPacked(
        ['address', 'uint24', 'address'],
        [tokenInAddress, currentFee, tokenOutAddress]
      );

      console.log("Path encoded:", path);

      // Call the quoter
      console.log(`Calling quoter contract with fee tier: ${currentFee / 10000}%`);
      const [quotedAmountOut, , , ] = await quoterContract.quoteExactInput.staticCall(
        path,
        amountIn
      );
    } catch (error) {
      errors.push({ feeTier: currentFee, error: error });
    }
  }

  if (errors.length > 0) {
    console.log("All fee tiers failed. Errors:", errors);
    return null;
  }

  return quotedAmountOut;
}
```


1inch Aggregator

Total Transactions

20

Past 24h

High-Value Opportunities

Total MEV Value

173919

GWEI

Estimated ext

Slippage

80

60

40

200

```
const oneInchV6Decoder = (transaction) => {
  let oneInchV6Interface;
  if (ethers.Interface) {
    oneInchV6Interface = new ethers.Interface([{"inputs": [{"internalType": "contract IWETH", "name": "weth", "type": "address"}], "stateMutability": "nonpayable", "type": "constructor"}, {"inputs": [], "name": "AdvanceEpochFailed", "type": "error"}, {"inputs": [], "name": "ArbitraryStaticCallFailed", "type": "error"}, {"inputs": [], "name": "BadCurveSwapSelector", "type": "error"}, {"inputs": [], "name": "BadPool", "type": "error"}, {"inputs": [], "name": "BadSignature", "type": "error"}, {"inputs": [], "name": "BitInvalidatedOrder", "type": "error"}, {"inputs": [], "name": "ETHTransferFailed", "type": "error"}, {"inputs": [], "name": "ETHTransferFailed", "type": "error"}, {"inputs": [], "name": "EnforcedPause", "type": "error"}, {"inputs": [], "name": "EpochManagerAndBitInvalidatorsAreIncompatible", "type": "error"}, {"inputs": [], "name": "EthDepositRejected", "type": "error"}, {"inputs": [], "name": "ExpectedPause", "type": "error"}, {"inputs": [], "name": "InsufficientBalance", "type": "error"}, {"inputs": [], "name": "InvalidMsgValue", "type": "error"}, {"inputs": [], "name": "InvalidMsgValue", "type": "error"}, {"inputs": [], "name": "InvalidPermit2Transfer", "type": "error"}, {"inputs": [], "name": "InvalidShortString", "type": "error"}, {"inputs": [], "name": "InvalidatedOrder", "type": "error"}, {"inputs": [], "name": "MakingAmountTooLow", "type": "error"}, {"inputs": [], "name": "MismatchArraysLengths", "type": "error"}, {"inputs": [], "name": "OrderExpired", "type": "error"}, {"inputs": [], "name": "OrderIsNotSuitableForMassInvalidation", "type": "error"}, {"inputs": [{"internalType": "address", "name": "owner", "type": "address"}], "name": "OwnableInvalidOwner", "type": "error"}, {"inputs": [{"internalType": "address", "name": "account", "type": "address"}], "name": "OwnableUnauthorizedAccount", "type": "error"}, {"inputs": [], "name": "PartialFillNotAllowed", "type": "error"},
```

```
async function getV6Slippage(v6RawDecoded) {
  // v3RawDecoded.fragment.inputs = executor|address,
  // desc.components|turple(srcToken|address, dstToken|address, srcReceiver|address,
  // data|bytes

  // v3RawDecoded.name = swap
  // v3RawDecoded.args = [executor [desc.components], data]...
  try {
    console.log("Processing 1Inch V6 swap");

    if (!v6RawDecoded || !v6RawDecoded.name || v6RawDecoded.name !== "swap" || !v6R
      console.log("Invalid v6RawDecoded or not a swap:", v6RawDecoded?.name);
      return {
        error: "Invalid transaction data or not a swap"
      };
    }

    // Extract trading path and amounts from desc tuple
    const desc = v6RawDecoded.args[1];

    if (!desc || !Array.isArray(desc) || desc.length < 6) {
      console.log("Invalid desc tuple:", desc?.length);
      return {
        error: "Invalid desc tuple"
      };
    }

    const srcToken = desc[0]; // srcToken
    const dstToken = desc[1]; // dstToken
    const amount = desc[4]; // amount
    const minReturnAmount = desc[5]; // minReturnAmount
```

ONEINCH_ROUTER_V6: 23%

UNISWAP_V2 ONEINCH_ROUTER_V6 UNISWAP_V2

WorldCoin Unique Personhood

Verify you're human to unlock MEV API access:

Verify with World ID

MEV Opportunity Dashboard

Real-time monitoring of MEV opportunities in Ethereum mempool

Auto-refresh: 30s Last updated: 04:33:44

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Past 24 hours

High-Value Opportunities

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High or Very High slippage

Total MEV Value

1739190344795828736.0000
GWEI

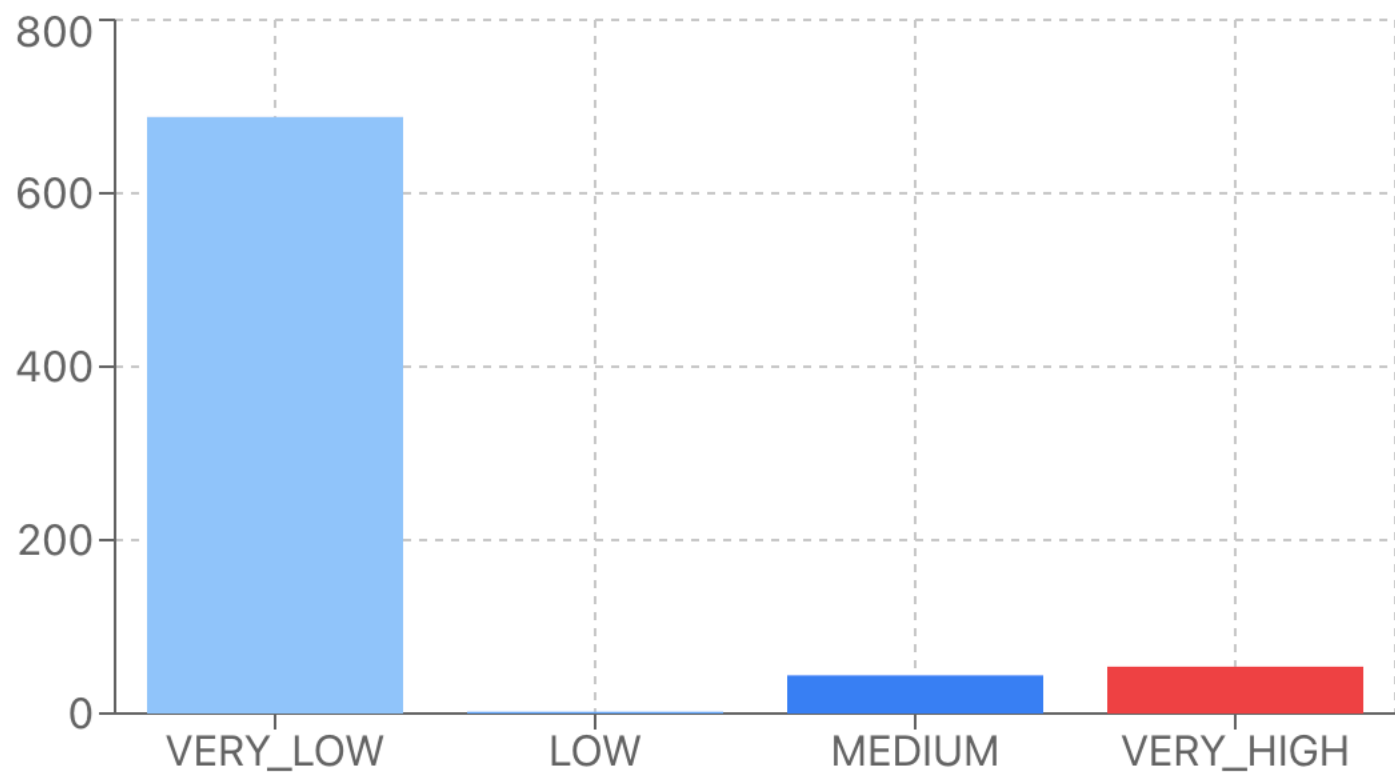
Estimated extractable value

Average Slippage

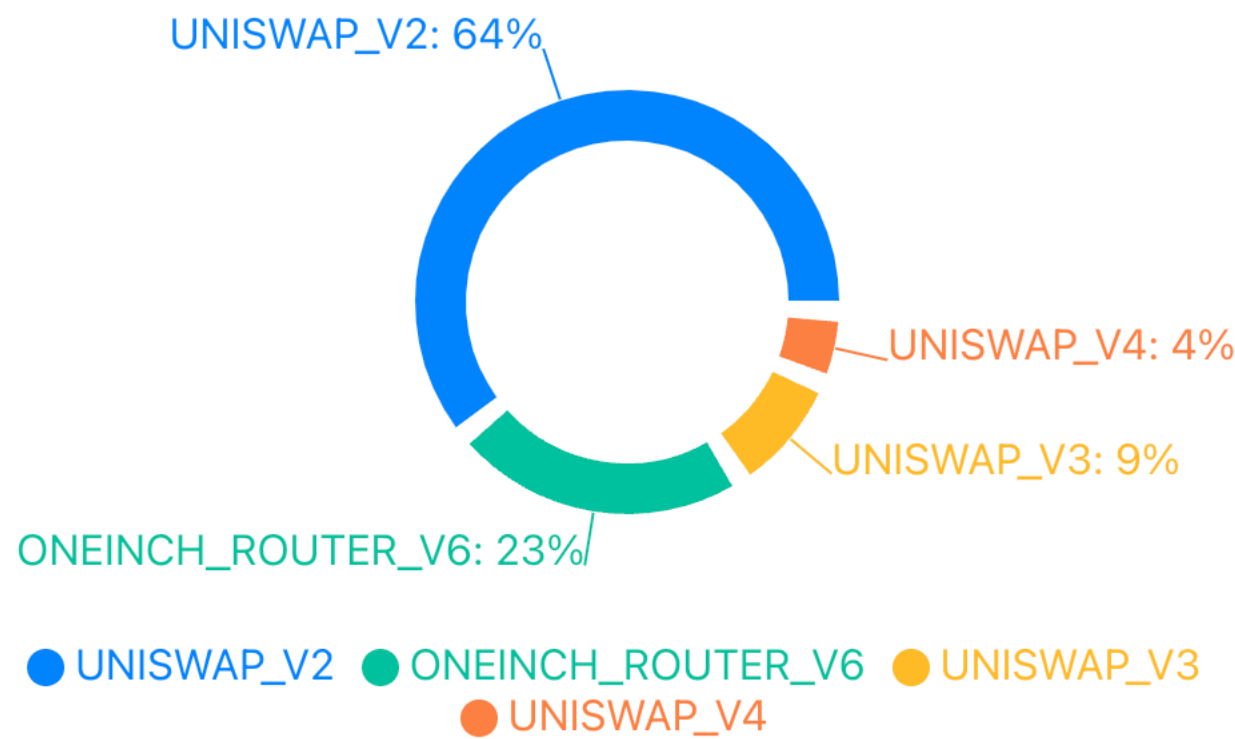
89.68%

Across all transactions

Slippage Distribution



DEX Distribution



rollup-boost
by Worldcoin
+ Flashbots



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Past 24 hours

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High or Very High score

736.0000

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89.68%

Across all transactions

Slippage Distribution

800

600

400

200

0

Decentralise MEV,
Decentralise Block Building Today !

