Tracking Jito-Solana Validators

This is for staking sites or others to detect which validators run Jito-Solana and their MEV commissions.

Jito Stake-Weight Over Time

This API gives Jito Network stake-weight on Solana historically as a percent of total stake

Endpoint:

GET api/v1/jito_stake_over_time

Example Request:

```
Copy curl https://kobe.mainnet.jito.network/api/v1/jito_stake_over_time
```

Example Response:

```
Copy { "stake_ratio_over_time": { "484": 0.27771625202212147, "485": 0.27866636980357196, } }
```

Current Jito Validators

The API below displays all current Jito-enabled validators along with their MEV commission.

Endpoint:

GET https://kobe.mainnet.jito.network/api/v1/validators

Response:

```
Copy { "validators":[ { "vote_account":"9GJmEHGom9eWo4np4L5vC6b6ri1Df2xN8KFoWixvD1Bs",
"mev_commission_bps":800, "running_jito":true }, {
"vote_account":"J1to1yufRnoWn81KYg1XkTWzmKjnYSnmE2VY8DGUJ9Qv", "mev_commission_bps":800,
"running_jito":true }, { "vote_account":"DsiG71AvUHUEo9rMMHqM9NAWQ6ptguRAHyot6wGzLJjx",
"mev_commission_bps":800, "running_jito":true }, ... }
```

To Pull On-Chain

This information is available viaStakeNet or using the directions below.

In order to determine which validators are running Jito-Solana and their configuration with purely on-chain data, you can use the following method.

Each epoch, when a Jito-Solana validator is executing its first leader slot, it will submit a transaction to create a Tip Distribution Account, which is a Program-Derived Account specific to this validator and epoch. By iterating through every active validator vote account pubkey, generating the potential Tip Distribution Account address for each, and checking which accounts have been createdand whose owner is the Tip Distribution Program (confirming this is a valid PDA) you can determine which validators are running Jito. Within the Tip Distribution Account data, you can also findmev_commission_bps which will tell you the commission this validator is charging on MEV tips (in basis points). Some useful functions and structs:

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```
Copy pubfnderive_tip_distribution_account_address( tip_distribution_program_id:&Pubkey, vote_pubkey:&Pubkey,
epoch:Epoch, )->(Pubkey,u8) { Pubkey::find_program_address( &[ TipDistributionAccount::SEED,
vote_pubkey.to_bytes().as_ref(), epoch.to_le_bytes().as_ref(), ], tip_distribution_program_id, ) }
```

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```

Copy /// The account that validators register as**tip_receiver** with the tip-payment program.

# [account]

# [derive(Default)]

pubstructTipDistributionAccount{ /// The validator's vote account, also the recipient of remaining lamports after /// upon closing this account. pubvalidator_vote_account:Pubkey,

/// The only account authorized to upload a merkle-root for this account. pubmerkle_root_upload_authority:Pubkey,

/// The merkle root used to verify user claims from this account. pubmerkle_root:Option,

/// Epoch for which this account was created. pubepoch_created_at:u64,

/// The commission basis points this validator charges. pubvalidator_commission_bps:u16,

/// The epoch (upto and including) that tip funds can be claimed. pubexpires_at:u64,

/// The bump used to generate this account pubbump:u8, }

```

Note that lower-staked validators can take a while to get their first leader slot in an epoch, so each epoch a given validator may not create its TipDistributionAccount for several hours. Therefore we recommend tracking validators over time and merging data from the previous epoch as well as the current one.

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