CardanoCodex'23

Team - DCentral

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Project - TPS-Cooker : A tool for optimizing Cardano transactions.

(Inspired by Indian kitchen theme, where the pressure cooker symbolizes efficiency.)

Project Description

Self-service utility for batched transactions.

- Ideal for distributing tokens to multiple addresses with minimal transaction fees.
- Use cases include NFT drops, airdrops, etc.
- Project and file naming inspired by Indian kitchen theme.

Problem Statement

Addressing Transaction Costs

- Blockchain transactions involve network fees.
- Batching transactions reduces fees.
- Self-service utility using cardano-cli for cost-effective transactions.

Tech stack

Haskell: Parses configuration and data, creates batched transactions.

Shell scripts: Orchestrates various steps.

Cardano-cli and cardano-node: Submits transactions to the blockchain.

How to use

Set properties in `/src/Properties.hs`
Place the signing key for the address holding your tokens under `` `/runtime` `` directory
Build the project : `cabal build tps-cooker`
Place your token distribution data in `` `/runtime/recipe.csv` ``.
Run the utility with `./prepare-and-submit-tx.sh`

(More info available in the github README.md)

Demo transaction

```
https://preprod.cardanoscan.io/transaction/a65f09857a406ba56d43721e7c76b602ce6dd9020b6432cd1fd897
2382a770c7
```

```
# transactions batched together    = 184
Total network fee incurred         = 0.878
Est. network fee without batching  = 30 ADA
Reduction in network fee           > 97 %
```

Thank you!