

Testing Log - Preprod - 2023-01-23

Cardano-cli

```
abc@material-baseball-zwzft4-0:~/workspace/repo$ cd cardano-cli/scripts/
```

```
abc@material-baseball-zwzft4-0:~/workspace/repo/cardano-cli/scripts$ cardano-cli query utxo --out-file ./utxo_out.csv
```

TxHash	TxIx	Amount
4a0364c49f5541a0b409cf85fe3aa3ca1a3cc2e9bcad963b00e476e937e38270	0	100000000 lovelace

```
abc@material-baseball-zwzft4-0:~/workspace/repo/cardano-cli/scripts$ ./transfer-tx.sh
```

```
+ export WORK=/config/workspace/repo/work
+ WORK=/config/workspace/repo/work
+ mkdir -p /config/workspace/repo/work
+ source_addr=addr_test1vq5s7k4kwqz4rrfe8mm9jz9tpm7c5u93yfwwsaw708yx5sm70qjg
+ source_utxo=4a0364c49f5541a0b409cf85fe3aa3ca1a3cc2e9bcad963b00e476e937e38270#0
+ destination_addr=addr_test1qqq967dwdp009smfeqtzhve89fyuqjydkvwc9md5atyg2429gnmszjc7hyf685vp#0
+ user_skey=/config/workspace/repo/.keys/user/key.skey
+ network='--testnet-magic 1'
+ cardano-cli query protocol-parameters --testnet-magic 1 --out-file /config/workspace/repo/work/protocol-parameters.json
+ cardano-cli transaction build --babbage-era --cardano-mode --testnet-magic 1 --change-address=addr_test1qqq967dwdp009smfeqtzhve89fyuqjydkvwc9md5atyg2429gnmszjc7hyf685vp#0
Estimated transaction fee: Lovelace 166953
+ echo 'tx has been built'
tx has been built
+ cardano-cli transaction sign --tx-body-file /config/workspace/repo/work/transfer-tx-alonzo.json
+ echo 'tx has been signed'
tx has been signed
+ echo 'Submit the tx with pluto script and wait 5 seconds...'
Submit the tx with pluto script and wait 5 seconds...
+ cardano-cli transaction submit --tx-file /config/workspace/repo/work/transfer-tx-alonzo.json
Transaction successfully submitted.
```

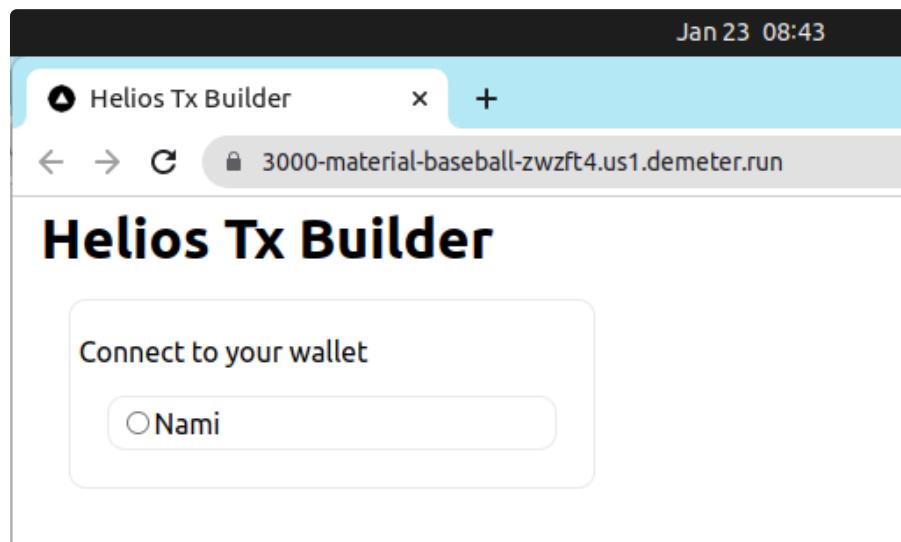
```
abc@material-baseball-zwzft4-0:~/workspace/repo/cardano-cli/scripts$ cardano-cli query utxo --out-file ./utxo_out.csv
```

TxHash	TxIx	Amount
eef1464bd7fbfc8eee6945c84c8a2fc6f59a48036d8ca59c8a6f809d46a553ad	1	7833047 lovelace

```
abc@material-baseball-zwzft4-0:~/workspace/repo/cardano-cli/scripts$ cardano-cli query utxo --out-file ./utxo_out.csv
```

TxHash	TxIx	Amount
eef1464bd7fbfc8eee6945c84c8a2fc6f59a48036d8ca59c8a6f809d46a553ad	0	200000000 lovelace

Helios Tx Builder



A screenshot of a web browser window titled "Helios Tx Builder". The address bar shows the URL "3000-material-baseball-zwzft4.us1.demeter.run". The main content area displays the title "Helios Tx Builder" and a "Connect to your wallet" button. Below the button is a dropdown menu with the option "Nami" selected. At the bottom of the screen, there is a summary card showing "Wallet Balance In Lovelace 10,000,000". Another summary card below it shows "Destination Wallet Address" with the value "addr_test1qrkvmepf8lzh6mj4yn237f63tm4tzu7gchahvlmqnn2jkevlv9p983fmyphtfw2g6nlplq60pv4207lwwhqf97tj68s58rzv7". A third summary card shows "Amount To Transfer" with the value "2" and a "Transfer Ada" button.

Jan 23 08:53

Helios Tx Builder x +

← → C 🔒 3000-material-baseball-zwzft4.us1.demeter.run

Helios Tx Builder

Connect to your wallet

Nami

Transaction Success!!!

TxId [5c5fd6b7a20d7eab5f49c9fb3a0b0733b873bfec2ea60c8431ed68c6b3cb4d7a](#)

Please wait until the transaction is confirmed on the blockchain and reload this page before doing another transaction

Google Chrome ▾ Jan 23 08:55

Helios Tx Builder x Transaction 5c5fd6b7a20d7eab5f49c9fb3a0b0733b873bfec2ea60c8431ed68c6b3cb4d7a +

← → C 🔒 preprod.cexplorer.io/tx/5c5fd6b7a20d7eab5f49c9fb3a0b0733b873bfec2ea60c8431ed68c6b3cb4d7a

Cexplorer.io preprod @ your button | Hi, SleepingCharles ✓

Share this

Transaction detail

Hash: [5c5fd6b7a20d7eab5f49c9fb3a0b0733b873bfec2ea60c8431ed68c6b3cb4d7a](#)

Date	1m2s ago
Epoch	47
Block	550,906
Slot	18,798,778 (epoch slot 136,378)
Total Output	9.83 ₪ (\$ 3.6) 0.00016
Fee	0.17 ₪ (\$ 0)
Outputs	2

3/8 Assurance

0.28kB (0.28kB) Transaction Size

0.28kB (1) Block Size (TX Count)

Minted by **[SNSOB] THE SUN NEVER SETS ON A BADASS**

Content

1m2s ago	# 5c5fd6b7a2...b4d7a	Total 9.83 ₪	-2.17 ₪ (\$ 0.8) 0.00004
10A	addr_test1...vhgn8	7.83 ₪	addr_test1...vhgn8
2A	addr_test1...8rzv7	2A	addr_test1...8rzv7

Mint NFT

Positive Test Cases

The screenshot displays two windows related to the Helios Tx Builder for minting an NFT.

Left Window (Helios Tx Builder):

- Header:** Google Chrome, Jan 23 09:15, Helios Tx Builder, 3000-material-baseball-zwzft4.us1.demeter.run
- Connect to your wallet:** Nami (selected)
- Wallet Balance In Lovelace:** 7,832,123
- Destination Wallet Address:** addr_test1qrkvmepf8lzh6mj4yn237f63tm4tzu7gchahvlmqnn2jkeviv9p983fmyphtfw2g6nplq60pv4207wwhqf97ij68s58rzv7
- NFT Token Name:** Mad Dog
- NFT Description:** Crazy dog that loves treats
- NFT Image:** QmckPPzthjkS9GRSxdw2SzSinAwdDW34xDZd26MrV5S
- Mint NFT** button

Right Window (Nami):

- Header:** Nami, User, 3000-material-baseball-zwzft4.us1.demeter.run
- Message:** This app requests a signature for:
- Fee:** - 2.245638 tA
- Fee Details:** 0.245638 tA fee
- Buttons:** Details >, Cancel, Preprod, Sign

Google Chrome ▾ Jan 23 09:17

Helios Tx Builder +

3000-material-baseball-zwzft4.us1.demeter.run

Helios Tx Builder

Connect to your wallet
Nami

Wallet Balance In Lovelace 7,832,123

Destination Wallet Address
addr_test1qrkvmepf8izh6m4yn237f63tm4tzu7gchahvlnmqnn2jkevlv9p983fmyptfw2g6nlpq60pv4207lwwhqf97lj68s58rzv7

NFT Token Name
Mad Dog

NFT Description
Crazy dog that loves treats

NFT Image
QmckPQPzthJjkS9GRSxdw2SzSinAwdDW34xDZd26MrV5S

Mint NFT

Details

Recipients
2 tx
addr_test1...j68s58rzv7
+ 1 Asset

Metadata

```
{ "721": { "d88b8377638d8ae70efb2a7acae60266e8a1d842599bb34cf2e9a4fe": { "Mad Dog": { "description": "Crazy dog that loves treats", "image": "QmckPQPzthJjkS9GRSxdw2SzSinAwdDW34xDZd26MrV5S", "name": "Mad Dog" } } } }
```

Signing keys
payment

Tags

Back

Jan 23 09:22

Helios Tx Builder +

3000-material-baseball-zwzft4.us1.demeter.run

Helios Tx Builder

Connect to your wallet
Nami

Transaction Success!!!

TxId [2a85d401ea7a8e8c08f82086097163c4e66dd7f24f31987e29d7bc1a7abb893b](#)

Please wait until the transaction is confirmed on the blockchain and reload this page before doing another transaction

Google Chrome ▾ Jan 23 09:23

Helios Tx Builder x Transaction 2a85d401ea7 x +

← → C preprod.explorer.io/tx/2a85d401ea7a8e8c08f82086097163c4e66dd7f24f31987e29d7bc1a7abb893b

Cexplorer.io prepod your button Hi, SleepingCharles

CARDANO EXPLORER

- Dashboard
- Watchlist
- Pools
- Assets
- Blocks
- Transactions
- dApps
- Metadata
- More

EDUCATION

- Articles
- Videos
- Wiki

ANALYTICS

- Decentralization
- Network

Hash: 2a85d401ea7a8e8c08f82086097163c4e66dd7f24f31987e29d7bc1a7abb893b

Date	57s ago
Epoch	47
Block	550,973
Slot	18,800,533 (epoch slot 138,133)
Total Output	7.59 A (\$ 28) B 0.00012
Fee	0.25 A (\$ 0)
Outputs	2

4/8 Assurance

1.57kB (0.67kB) Transaction Size this tx 100%

0.91kB Script Size script 58% I/O 42%

1.58kB (1) Block Size (TX Count) available 98%

Minted by [ALFA] Alfa Pool

Content Contracts (1) Collateral (1) Mint (1) Metadata (1) Script (1)

57s ago # 2a85d401ea7abb893b Total 7.59A

7.59A addr_test1.vhgn8 5.59A addr_test1.vhgn8
2A addr_test1.Brzv7 Mad Dog 1

Google Chrome ▾ Jan 23 09:25

Helios Tx Builder x NFT preview Mad Dog | C x +

← → C preprod.explorer.io/asset/asset1tlzk06d7u9zxcw049xrt56xwn7ej2whc46pvkm/preview#data

Cexplorer.io prepod your button Hi, SleepingCharles

CARDANO EXPLORER

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ANALYTICS

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/ Assets / Policy d88b8377638d8ae70efb2a... / Mad Dog / NFT preview

Fingerprint: asset1tlzk06d7u9zxcw049xrt56xwn7ej2whc46pvkm

Policy ID: d88b8377638d8ae70efb2a7acae60266e8a1d842599bb34cf2e9a4fe

Name (onchain) Mad Dog Encoded: 4d616420446f67

Onchain data (epoch snapshot)

Supply 1

Owner stake_test_k6nc4

NFT Asset Type

1/1 Assets with same policy

Preview TXs Mints Metadata Owners Embed

Mad Dog

Note: Data are loaded directly from blockchain and decentralised ipfs storage and are NOT stored or hosted on our website.

Metadata

```
{
  "name": "Mad Dog",
  "image": "QmcKPQPzthJjkS9GRSxdw2SzSinAwDDW34xDZd26MrV5S",
  "description": "crazy dog that loves treats"
}
```

Mint Multisig NFT

Positive Test Cases

The screenshot shows the Helios Tx Builder interface with the following details:

- Header:** Jan 23 09:48
- Title Bar:** Helios Tx Builder
- URL:** 3000-material-baseball-zwzft4.us1.demeter.run
- Section: Connect to your wallet**
 - Selected wallet: Nami
- Section: Wallet Balance In Lovelace** 14,000,000
- Section: Buyer Wallet Address** addr_test1qq5vczw9q0tagsk5v8k5tr35kzd06ur3grdv7afmt3us5mdq56r869vgx0wnpw5cerwfgs5glfrm9069dys57z0lgvq7vhg
- Section: NFT Token Name** Mad Dog
- Section: NFT Description** Crazy dog that loves treats
- Section: NFT Image** QmckPQPzthJjkS9GRSxdw2SzSinAwdDW34xDZd26MrV5S
- Section: Seller Wallet Address** addr_test1qrkvmepf8lzh6mj4yn237f63tm4tzu7gchahvlmqnn2jkevlv9p983fmyphfw2g6nlplq60pv4207lwwhqf97j68s58rzv7
- Bottom Button:** Mint NFT

Jan 23 09:49

Helios Tx Builder x +

← → C 🔒 3000-material-baseball-zwzft4.us1.demeter.run

Helios Tx Builder

Connect to your wallet

Nami

Wallet Balance In Lovelace 14,000,000

Buyer Sign NFT Transaction

Jan 23 09:50

Helios Tx Builder

3000-material-baseball-7wzft4.us1.demeter.run

Helios Tx Builder

Connect to your wallet

@ Nami

Wallet Balance In Lovelace 14,000,000

Buyer Sign NFT Transaction

Buyer Sign

User

5.586485 tA

2.10 \$

Receive

Send

QR code

addr_test1qq5vczw9q0tagsk5v0k5tr
35kzd06ui3gidv7afml3us5mndq56r8
69vgx0wnpw5cerwtgs5glfrnl9069dy
s57z0lgvq7vhgn8

Preprod

buyer address and wallet account

Jan 23 09:52

Helios Tx Builder +

3000-material-baseball-zwzft4.us1.demeter.run

Helios Tx Builder

Connect to your wallet

Nami

Wallet Balance In Lovelace 14,000,000

Buyer Sign NFT Transaction

Buyer Sign

Nami

User

3000-material-baseball-zwzft4.us1.demeter.run

This app requests a signature for:

+ 2 tA

+ 1 Asset

0.269886 tA fee

Details >

Cancel

Preprod

Sign

sign with correct buyer

Jan 23 09:56

Helios Tx Builder x +

← → C 🔒 3000-material-baseball-zwzft4.us1.demeter.run

Helios Tx Builder

Connect to your wallet

Nami

Wallet Balance In Lovelace 14,000,000

Seller Sign And Submit NFT Transaction

[Seller Sign and Submit Tx](#)

Jan 23 09:59

Helios Tx Builder

Connect to your wallet

Nami

Wallet Balance In Lovelace 14,000,000

Seller Sign And Submit NFT Transaction

Seller Sign and Submit Tx

Nami

User

3000-material-baseball-zwzft4.us1.demeter.run

This app requests a signature for:

- 2.269886 t₮

0.269886 t₮ fee

Details >

Cancel

Preprod

Sign

sign with correct seller wallet

Jan 23 10:03

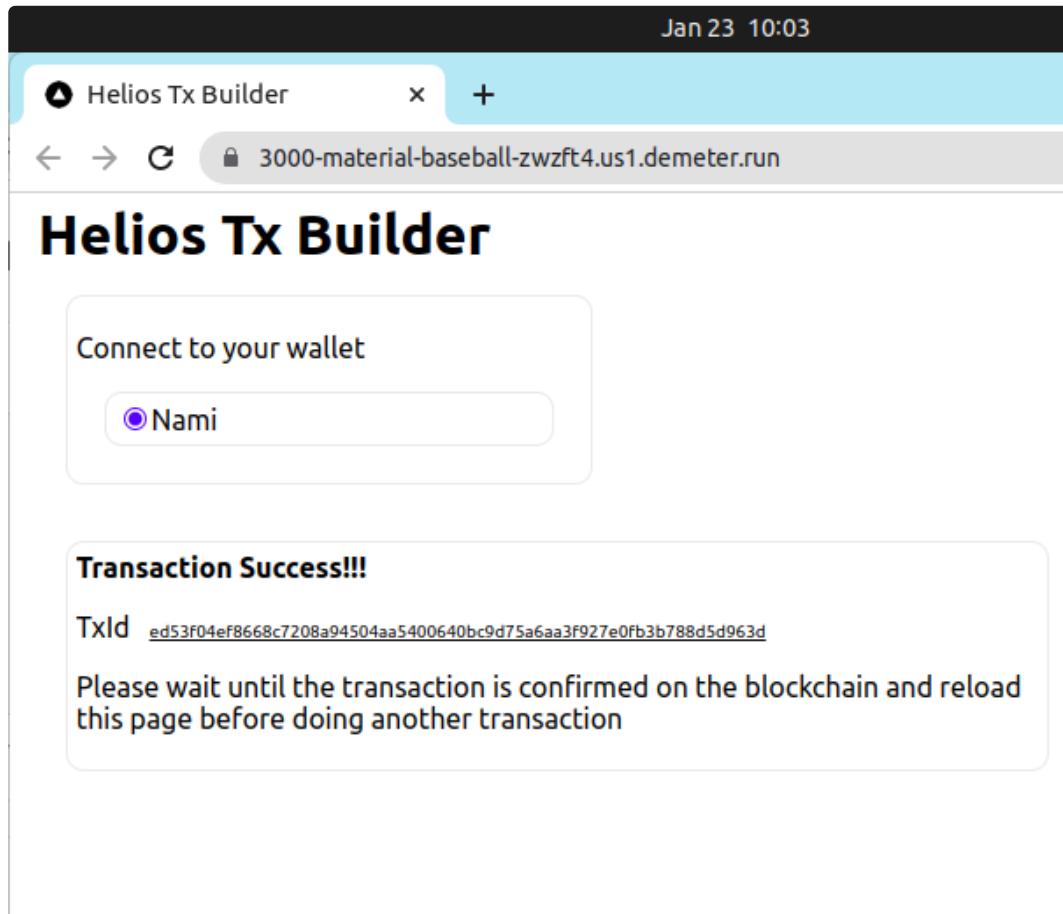
Helios Tx Builder

Connect to your wallet
Nami

Transaction Success!!!

TxId [ed53f04ef8668c7208a94504aa5400640bc9d75a6aa3f927e0fb3b788d5d963d](#)

Please wait until the transaction is confirmed on the blockchain and reload this page before doing another transaction



Jan 23 10:06

Helios Tx Builder

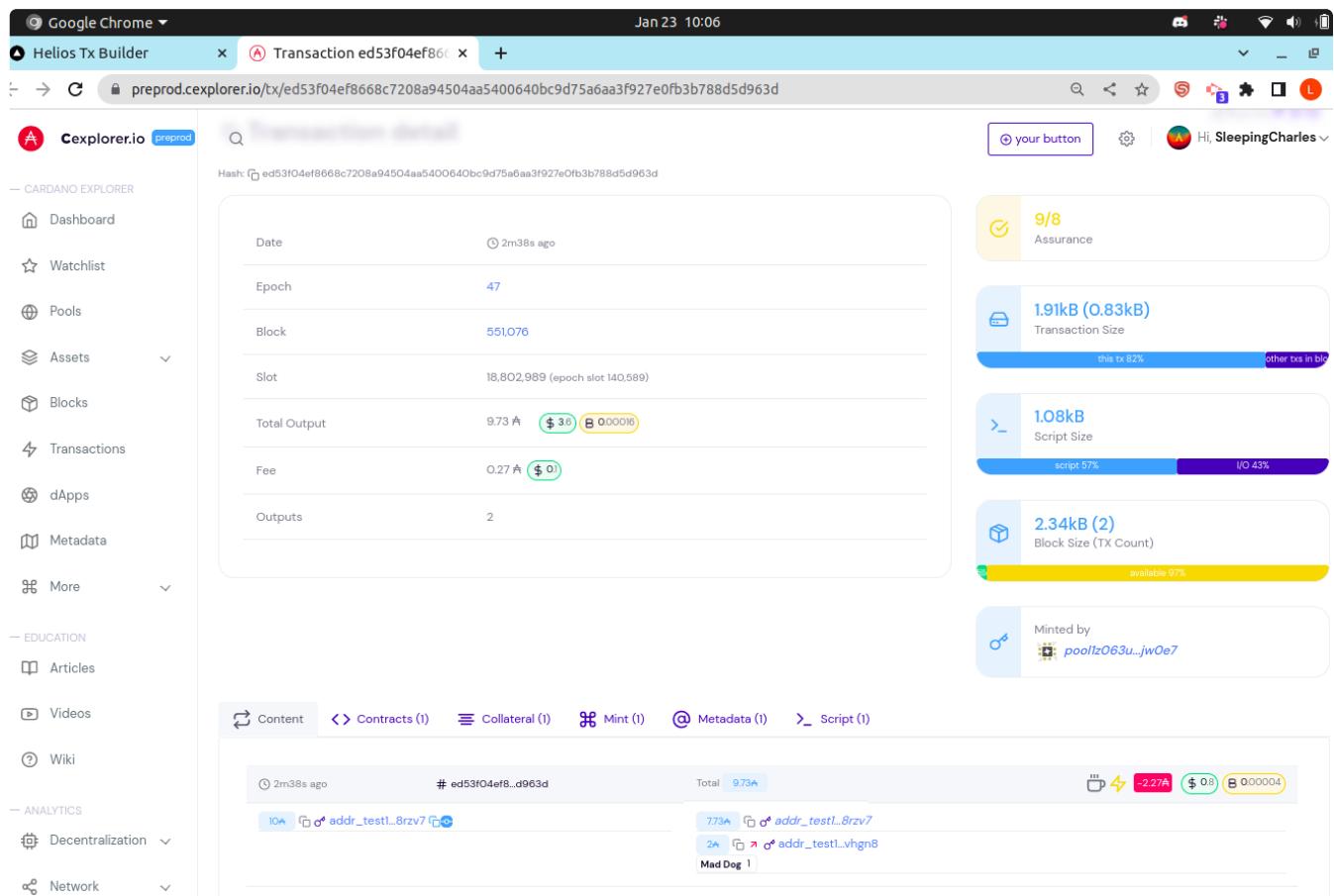
Hash: [ed53f04ef8668c7208a94504aa5400640bc9d75a6aa3f927e0fb3b788d5d963d](#)

Date: 2m38s ago
Epoch: 47
Block: 551,076
Slot: 18,802,989 (epoch slot 140,589)
Total Output: 9.73 A (\$ 38) B 0.00016
Fee: 0.27 A (\$ 0)
Outputs: 2

Assurance: 9/8
Transaction Size: 1.91kB (0.83kB)
Script Size: 1.08kB
Block Size (TX Count): 2.34kB (2)
Minted by: pool1z063u...jw0e7

Content Contracts (1) Collateral (1) Mint (1) Metadata (1) Script (1)

2m38s ago # ed53f04ef8...d963d Total 9.73A
10A ↗ addr_test1...8rzv7 ↗ 773A ↗ addr_test1...8rzv7 ↗ -2.27A (\$ 0.8) B 0.00004
2A ↗ addr_test1...vhgn8 ↗ Mad Dog 1



Negative Test Cases

Jan 23 10:09

Helios Tx Builder x +

3000-material-baseball-zwzft4.us1.demeter.run

Helios Tx Builder

Connect to your wallet

Nami

Wallet Balance In Lovelace 11,730,114

Buyer Sign NFT Transaction

Buyer Sign

Nami User

3000-material-baseball-zwzft4.us1.demeter.run

This app requests a signature for:

+ 0 t₮

0.269886 t₮ fee

Details >

Signature not possible

Cancel ⓘ Preprod

Sign

incorrect buyer wallet

Jan 23 10:11

Helios Tx Builder x +

← → C 3000-material-baseball-zwzft4.us1.demeter.run

Helios Tx Builder

Connect to your wallet

Nami

Wallet Balance In Lovelace 11,730,114

Seller Sign And Submit NFT Transaction

Seller Sign and Submit Tx

Nami User

3000-material-baseball-zwzft4.us1.demeter.run

This app requests a signature for:

+ 0 tA

0.269886 tA fee

Details >

Signature not possible

Cancel Preprod Sign

The image shows two overlapping web browser windows. The left window is titled 'Helios Tx Builder' and displays a 'Seller Sign And Submit NFT Transaction' form. It includes a 'Seller Sign and Submit Tx' button and a 'Seller Sign And Submit NFT Transaction' section. The right window is titled 'Nami' and shows a 'User' profile with a red robot icon. It displays a transaction request for '+ 0 tA' with a fee of '0.269886 tA fee'. A 'Signature not possible' message is shown above two large buttons: 'Cancel' (with a small 'Preprod' label) and 'Sign'. The URL in both windows is '3000-material-baseball-zwzft4.us1.demeter.run'.

incorrect seller wallet

Jan 23 10:13

Helios Tx Builder

Connect to your wallet
Nami

Wallet Balance In Lovelace 11,730,114

Seller Sign And Submit NFT Transaction
Seller Sign and Submit Tx

User
6.435715 tA ⓘ
2.41 \$

Receive Send

1 Asset

tA Ada 6.435715

Preprod

trying to sign and submit using buyer wallet

Jan 23 10:16

Helios Tx Builder

Connect to your wallet
Nami

Wallet Balance In Lovelace 11,730,114

Seller Sign And Submit NFT Transaction
Seller Sign and Submit Tx

Elements Console

1 Issue: 1

```

Waiting for seller wallet signature... index.tsx?07ff:277
Verifying seller signature... index.tsx?07ff:280
sellerSigned index.tsx?07ff:284
  Tx {#body: TxBody, #witnesses: TxWitnesses, #valid: true, #metadata: TxMetadata, #validTo: null, ...}
Submitting transaction... index.tsx?07ff:286
✖ Uncaught (in promise) index.tsx?07ff:200
  {code: 2, info: 'Wallet could not send the tx.', message:
    "transaction submit error ShelleyTxValidationError...72a926a8f7558b9e462fdbb3fb04e6a95b\\\")))))' }
  code: 2
  info: "Wallet could not send the tx."
  message: "\"transaction submit error ShelleyTxValidationEr"

```

"transaction submit error ShelleyTxValidationError ShelleyBasedEraBabbage(ApplyTxError [UtxowFailure (FromAlonzoUtxowFail (WrappedShelleyEraFailure (MissingVKeyWitnessesUTXOW (WltHashes (fromList [KeyHash \"c7666f2149fe2beb72a976a8f93a8af7558b9e462fdbb3fb04e6a95b\\\"]))))), UtxowFailure (FromAlonzoUtxowFail (MissingRequiredSigners (fromList [KeyHash \"c7666f2149fe2beb72a926a8f7558b9e452fdbb3fb04e6a95b\\\"]))))]" }

can't sign transaction because incorrect signature

Google Chrome ▾ Jan 23 10:31

Helios Tx Builder 3000-material-baseball-zwzft4.us1.demeter.run

Unhandled Runtime Error

Error: Trace: line 598 of IR
RuntimeError on line 64 of IR: transaction rejected

Source

```
pages/index.tsx (253:4) @ async mintNFT
```

```

251 |
252 | // Send any change back to the buyer
> 253 | await tx.finalize(networkParams, changeAddress)
|   ^
254 | console.log("tx after final", tx.dump());
255 |
256 | // Store the transaction so it can be signed

```

Buyer Wallet Address: addr_test1qrkvmepf8z6m4yjn237f63tm4tzu7gchahvlmqn2jkeviv9p983lmphtfw26nlplq60pv4207wwhq97y68s58rzv7

Mint NFT

Console

Default levels 3 Issues: 3

```

value_minted == Value::new(assetclass, 1) &&
(tx.inputs.any((input: TxInput) -> Bool {
    (input.output_id ==
outputId).trace("NFT1: ")
}) &&
tx.is_signed_by(BUYER).trace("NFT2: ") &&
tx.is_signed_by(SELLER).trace("NFT3: ")
)
}

tx before final
▶ {body: {...}, witnesses: {...}, valid: false, metadata: {...}}
```

NFT1: true	helios.js?3acb:33333
NFT2: true	helios.js?3acb:33333
NFT3: false	helios.js?3acb:33333

✖ ▶ Uncaught (in promise) Error: Trace: helios.js?3acb:1334
line 598 of IR
RuntimeError on line 64 of IR: transaction rejected
at RuntimeError.addTrace (helios.js?3acb:1334:1)
at RuntimeError.addTraceSite (helios.js?3acb:1344:1)
at UplcAnon.call (helios.js?3acb:8960:1)
at async UplcProgram.runInternal (helios.js?3acb:11252:
1)
at async UplcProgram.run (helios.js?3acb:11293:1)
at async UplcProgram.profile (helios.js?3acb:11362:1)
at async TxWitnesses.executeRedeemers (helios.js?3acb:330:1)
at async Tx.executeRedeemers (helios.js?3acb:32172:1)
at async Tx.finalize (helios.js?3acb:32357:1)
at async mintNFT (index.tsx?07ff:253:5)

trying to build a transaction without the seller signature in the transaction

Vesting (Time Lock)

Positive Test Cases

Beneficiary Claiming Funds

The screenshot shows the Helios Tx Builder interface in a Google Chrome browser window. The URL is 3000-material-baseball-zwzft4.us1.demeter.run. The page displays a beneficiary's wallet information and a QR code for funding.

Beneficiary Wallet Address: addr_test1qqpau0m8y57y2jf7623uw67maxe2p9lxunrrmgccchujhw0lp62r7dpms2ujjfvmgcezovuhn3ja7s8h0xclmx0ca3c

Amount Of Ada To Lock: Enter Amount

Vesting Expiry Date: mm/dd/yyyy

Claim Funds: Enter The Vesting Key

Beneficiary: Nami (represented by a green alien icon)

Balance: 10.000000 lovelace (3.78 \$)

QR Code: A QR code representing the vesting key: addr_test1qqpau0m8y57y2jf7623uw67maxe2p9lxunrrmgccchujhw0lp62r7dpms2ujjfvmgcezovuhn3ja7s8h0xclmx0ca3c

Status: Prepared

Google Chrome ▾ Jan 23 11:18

Helios Tx Builder 3000-material-baseball-zwzft4.us1.demeter.run

Helios Tx Builder

Connect to your wallet
Nami

View Smart Contract: vesting.hl

Wallet Balance In Lovelace 11,730,114

Beneficiary Wallet Address
addr_tcat1qqgau0m8y57y2j762euw67muc0p9lxunrrmgcchujhwoip62r7dpm82ujifrmgecovuhtn8ja7bs8l0xclmz0cs3e

Amount Of Ada To Lock
100

Vesting Expiry Date
01/16/2023

Lock Ada

Claim Funds
Enter The Vesting Key
Claim Funds

Cancel Vesting
Enter The Vesting Key
Cancel Vesting

Owner
110.000000 tA
41.67 \$

Receive Send

QR code A

addr_test1qrz47gdrlmcxsw7sup6c7yprz8csxezckmafa96hfcmqnu3qiznkwc kyzzxcuytmgas0qh7y8ppmd5nhkv u5wlcsj0qv5je4g

Preprod

Owner wallet locking 100 Ada into vesting contract with deadline in the past

Google Chrome ▾

Jan 23 11:21

Helios Tx Builder

3000-material-baseball-zwzft4.us1.demeter.run

Helios Tx Builder

Connect to your wallet

Nami

View Smart Contract: [vesting.hl](#)

Wallet Balance In Lovelace 11,730,114

Beneficiary Wallet Address
addr_test1qqpau0m8y57y2j7623uw67munc9pr9kxunmmgcehujhw0kp62r7dpm82ujifvmggezcvulhtn3ja7s8hl9xetmx9as3z

Amount Of Ada To Lock
100

Vesting Expiry Date
01/16/2023

Lock Ada

Claim Funds
Enter The Vesting Key

Claim Funds

Nami

Owner

3000-material-baseball-zwzft4.us1.demeter.run

This app requests a signature for:

- 100.238795 tA

0.238795 tA fee

Details >

Cancel

Preprod

Sign

Google Chrome ▾

Jan 23 11:22

Helios Tx Builder

3000-material-baseball-zwzft4.us1.demeter.run

Nami

Helios Tx Builder

Connect to your wallet

Nami

View Smart Contract: [vesting.hl](#)

Wallet Balance In Lovelace 11,730,114

Beneficiary Wallet Address
addr_test1qqpau0m8y5y2j7f623uw67mucx9pr9kxunmmgohujhw0kp62r7dpm82ujfvmggezcvu1htn3a7fs8h9xetmx9as3z

Amount Of Ada To Lock
100

Vesting Expiry Date
01/16/2023

Claim Funds

Cancel Vesting

Details

Recipients

addr_test1...yljc7qekxy
Contract

100 **tA**
+ 1 Asset

Signing keys

payment

Tags

Minting Contract Datum

Raw transaction

```
84a6008182582025f7acd518f60eb7610d5bebfa591a1a830d72137bc256d96be2e7bfd1d534e3000182a30
0581d7072233182065bae1ca2b5c520d8353da54353d6233b168f63d27aa4fc0b1821a05f5e100a1581c65f1c
2ec2d3543a87d3f54c21c14b70d8d867c6c60524a7e72a5df37a14b56657374696e67204b657901028201d8
1858479f581cc55f21a3de0d477a1c0eb1e604623e206cb816df5202ae9c6c13e45581c03de3f67253c4549
3ed2a3c76bdb1eb508cb63727bda319bf25773e1b00000185b8f2d480ff82583900c55f21a3de0d477a1c0
eb1e604623e206c8b16df5202ae9c6c13e451214ceb608251b1c22f74760f05fc43843b6d277b339477f1
02c8e1a0094fb5021a003a4cb09a1581c65f1c2ec2d3543a87d3f54c21c14b70d8d867c6c60524a7e72a5d
f37a14b56657374696e67204b6579010b5820fd42e8a77e23bd3369a7c6764bc31fb1d694fc80e42feb3eb5
5a2f8h077f13he0dR1R25R2070rl777frdr9h4h0rl6epah7922rl52f193r121818nrlrlf07r7r9r12r9eh0h4ra
```

Helios Tx Builder

Connect to your wallet

Nami

View Smart Contract: [vesting.hl](#)

Transaction Success!!!

TxId [248e78852c7d674af342042b4ccf35be06e9a0471bcc3f57497f1ab201d82c27](#)

Please wait until the transaction is confirmed on the blockchain and reload this page before doing another transaction

Please copy and save your vesting key

cb2303de208e7c1d1f295310c9abb76f431bafedaa846c57010e288a

You will need this key to unlock your funds

Google Chrome ▾ Jan 23 11:30

Helios Tx Builder x Transaction 248e78852c7 x +

← → C 🔒 prepod.explorer.io/tx/248e78852c7d674af342042b4ccf35be06e9a0471bcc3f57497f1ab201d82c27

Cexplorer.io prepod

your button | Hi, SleepingCharles ▾

— CARDANO EXPLORER

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- Decentralization
- Network

Date 56s ago

Epoch 47

Block 551284

Slot 18,808,129 (epoch slot 145,729)

Total Output 104.59 A (\$ 387 B 0.000170)

Fee 0.24 A (\$ 0.1)

Outputs 2

2/8 Assurance

1.42kB (0.51kB) Transaction Size

0.91kB Script Size

2.43kB (3) Block Size (TX Count)

Minted by [ATADA] ATADA Austria - PreProd Pool #1

Content Contracts () Collateral () Mint () Script ()

56s ago # 248e78852c...82c27 Total 104.59A

104.83A addr_test1...5je4g

100A addr_test1...5je4g Vesting Key 1

4.50A addr_test1...5je4g

Jan 23 11:33

Helios Tx Builder 3000-material-baseball-zwzft4.us1.demeter.run

Helios Tx Builder

Connect to your wallet
 Nami

View Smart Contract: [vesting.hi](#)

Wallet Balance In Lovelace 10,000,000

Beneficiary Wallet Address
Enter Beneficiary Wallet Address

Amount Of Ada To Lock
Enter Amount

Vesting Expiry Date
mm/dd/yyyy

Lock Ada

Claim Funds
cb2303de208e7c1d1f295310c9abb76c131bafedaa816c57010e288a

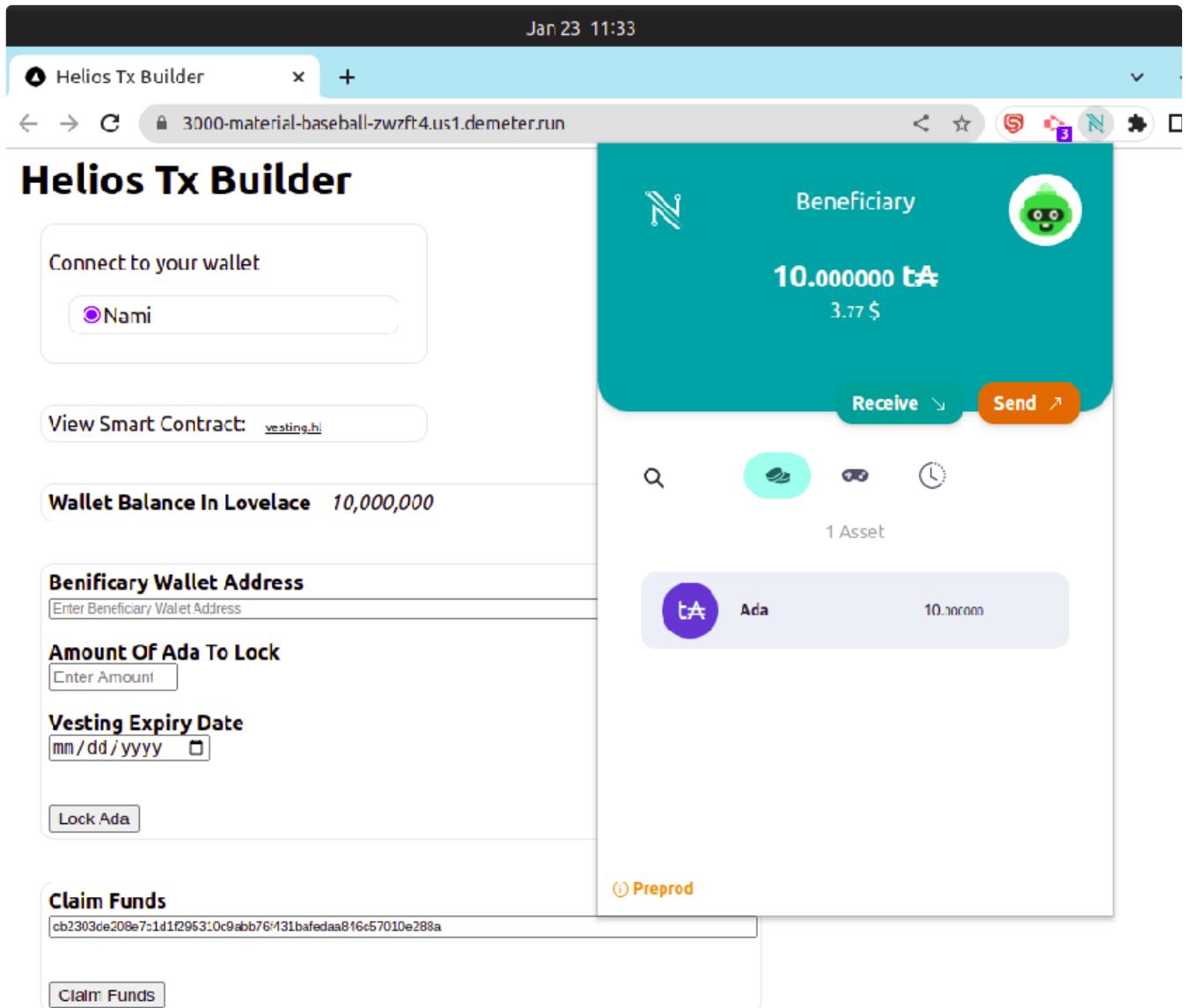
Beneficiary
10.000000 tA
3.77 \$

Receive Send

Search Filter Clock
1 Asset

Ada 10.000000

Preprod



Beneficiary wallet

Jan 23 11:35

Helios Tx Builder +

← → ⌛ 🔒 3000-material-baseball-zwzft4.us1.demeter.run

Connect to your wallet

● Nami

View Smart Contract: [vesting.hl](#)

Wallet Balance In Lovelace 10,000,000

Beneficiary Wallet Address
Enter Beneficiary Wallet Address

Amount Of Ada To Lock
Enter Amount

Vesting Expiry Date
mm/dd/yyyy

Lock Ada

Claim Funds
cb2303de208e7c1d1f295310c9abb76f431bafedaa846c57010e288a

Claim Funds

Nami

Beneficiary

3000-material-baseball-zwzft4.us1.demeter.run

This app requests a signature for:

+ 99.790862 t₮

+ 1 Asset

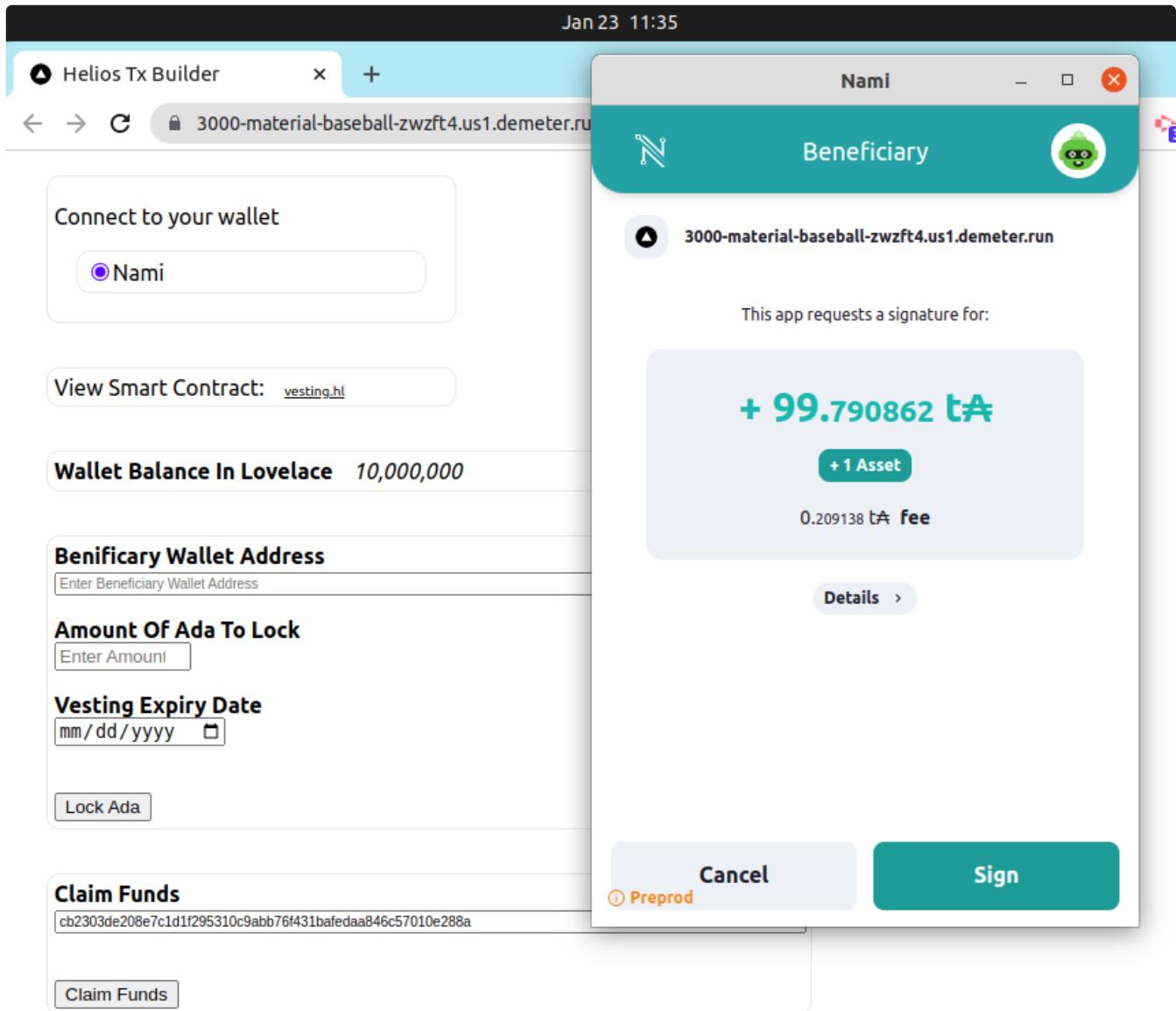
0.209138 t₮ fee

Details >

Cancel

Preprod

Sign



Jan 23 11:36

Helios Tx Builder

3000-material-baseball-zwzft4.us1.demeter.run

Connect to your wallet
Nami

View Smart Contract: [vesting.hl](#)

Transaction Success!!!

TxId [6df50ae95e46375921a82fa66688ddda5db493a1905ea46648dead0a2317accb](#)

Please wait until the transaction is confirmed on the blockchain and reload this page before doing another transaction

Google Chrome ▾ Jan 23 11:37

Helios Tx Builder Transaction 6df50ae95e46375921a82fa66688ddda5db493a1905ea46648dead0a2317accb

Cexplorer.io preprod

Hash: [6df50ae95e46375921a82fa66688ddda5db493a1905ea46648dead0a2317accb](#)

Date: 20s ago

Epoch: 47

Block: 551,303

Slot: 18,808,611 (epoch slot 146,211)

Total Output: 109.79 ⓘ (\$ 408) Ⓛ 0.00178

Fee: 0.21 ⓘ (\$ 0)

Outputs: 2

TTL: locked in 1h58m (18,815,713)

1/8 Assurance

0.97kB (0.49kB) Transaction Size

0.47kB Script Size

2.02kB (2) Block Size (TX Count)

Minted by [DRKSN] Derksen IT preprod pool

Content Contracts (1) Collateral (1)

20s ago # 6df50ae95e...7accb Total 109.79 ⓘ

100 ⓘ addr_test1_qekxy Ⓛ ⓘ ⓘ

Vesting Key -1

100 ⓘ addr_test1_zdgj8 Ⓛ ⓘ

9.79 ⓘ addr_test1_zdgj8 Ⓛ ⓘ

Owner cancelling contract

Google Chrome ▾ Jan 23 11:44

Helios Tx Builder x +

3000-material-baseball-zwzft4.us1.demeter.run

Helios Tx Builder

Connect to your wallet
Nami

View Smart Contract: [vesting.hl](#)

Wallet Balance In Lovelace 109,592,888

Beneficiary Wallet Address
addr_test1qqpau0m8y57y2j7623uw67muxc9pr9kxunrrmgcehujhw0kp62r7dpm82ujfvmggezcvuhnt3ja7s8hl9xetmx9as3z

Amount Of Ada To Lock
50

Vesting Expiry Date
01/30/2023

Lock Ada

Claim Funds
Enter The Vesting Key

Owner
104.592888 tA ⓘ
39.45 \$
Receive ⚡ Send ↗

1 Asset

tA Ada 104.592888

⌚ Preprod

locks funds with future date

Google Chrome ▾ Jan 23 11:45

Helios Tx Builder x +

3000-material-baseball-zwzft4.us1.demeter.run

Helios Tx Builder

Connect to your wallet
Nami

View Smart Contract: [vesting.hl](#)

Wallet Balance In Lovelace 109,592,888

Beneficiary Wallet Address
addr_test1qqpau0m8y57y2j7623uw67muxc9pr9kxunrrmgcehujhw0kp62r7dpm82ujfvmggezcvuhnt3ja7s8hl9xetmx9as3z

Amount Of Ada To Lock
50

Vesting Expiry Date
01/30/2023

Lock Ada

Claim Funds
Enter The Vesting Key

Nami Owner

3000-material-baseball-zwzft4.us1.demeter.run

This app requests a signature for:

- 50.238795 tA

0.238795 tA fee

Details >

Cancel Sign

⌚ Preprod

Google Chrome ▾ Jan 23 11:46

Helios Tx Builder × +

← → C 3000-material-baseball-zwzft4.us1.demeter.run

Helios Tx Builder

Connect to your wallet

Nami

View Smart Contract: [vesting.hl](#)

Transaction Success!!!

TxId [5202067dafb71dee447e9ca26f45e7157127058b2ed25fd4dce9ad2d208ef3ef](#)

Please wait until the transaction is confirmed on the blockchain and reload this page before doing another transaction

Please copy and save your vesting key

6578f4768e1532e19e4d4031316e141d17be4330288892fd10cc6090

You will need this key to unlock your funds

Google Chrome ▾

Jan 23 11:49

Helios Tx Builder x +

3000-material-baseball-zwzft4.us1.demeter.run

Nami

View Smart Contract: vesting.hl

Wallet Balance In Lovelace 59,354,093

Beneficiary Wallet Address
Enter Beneficiary Wallet Address

Amount Of Ada To Lock
Enter Amount

Vesting Expiry Date
mm/dd/yyyy

Lock Ada

Claim Funds
Enter The Vesting Key

Claim Funds

Cancel Vesting
65781476Re1532e19e4d4031316e141d17he4330288892H10cr6090

Cancel Vesting

Owner 

54.354093 tA ⓘ
20.51 \$

Receive ⚡ Send ⚡

Q   

1 Asset

tA Ada 54.354093

ⓘ Preprod

Google Chrome ▾ Jan 23 11:50

Helios Tx Builder 3000-material-baseball-zwzft4.us1.demeter.run

Nami

View Smart Contract: vesting.hl

Wallet Balance In Lovelace 59,354,093

Beneficiary Wallet Address
Enter Beneficiary Wallet Address

Amount Of Ada To Lock
Enter Amount

Vesting Expiry Date
mm/dd/yyyy

Lock Ada

Claim Funds
Enter The Vesting Key

Claim Funds

Cancel Vesting
6578f4768e1532e19e4d4031316e141d17be4330288892fd10cc6090

Cancel Vesting

Nami Owner

3000-material-baseball-zwzft4.us1.demeter.run

This app requests a signature for:

+ 49.784963 tA
+ 1 Asset

0.215037 tA fee

Details >

Cancel

Preprod

Sign

Google Chrome ▾ Jan 23 11:51

Helios Tx Builder x +

← → C 3000-material-baseball-zwzft4.us1.demeter.run

Helios Tx Builder

Connect to your wallet

Nami

View Smart Contract: vesting.hl

Transaction Success!!!

TxId [8aca321833e2fc7efa7b892ffc71acaa2becfec0ed417649857c2ba4abcd1ac](#)

Please wait until the transaction is confirmed on the blockchain and reload this page before doing another transaction

Google Chrome ▾ Jan 23 11:52

Helios Tx Builder x Transaction 8aca321833e2fc7efa7b892ffc71acaa2becfec0ed417649857c2ba4abcd1ac +

← → C preprod.explorer.io/tx/8aca321833e2fc7efa7b892ffc71acaa2becfec0ed417649857c2ba4abcd1ac

Cexplorer.io preprod

your button

Hi, SleepingCharlie

2/8 Assurance

1kB (0.53kB) Transaction Size

0.47kB Script Size

1kB (1) Block Size (TX Count)

Minted by [CARDS] Cardanistas (PPE-Testnet)

Date 41s ago

Epoch 47

Block 551,337

Slot 18,809,477 (epoch slot 147,077)

Total Output 104.14 ADA (\$ 38.5) 0.000169

Fee 0.22 ADA (\$ 0)

Outputs 2

TTL locked in 1h59m (18,816,630)

Content Contracts (1) Collateral (1)

41s ago # 8aca321833..df1ac Total 104.14 ADA

50 ADA addr_test1..qekxy 54.14 ADA addr_test1..5je4g

49.76 ADA addr_test1..5je4g 50 ADA addr_test1..5je4g

4.59 ADA addr_test1..5je4g 4.59 ADA addr_test1..5je4g

Negative Test Cases

Beneficiary trying to claim before deadline

The screenshot shows two windows: a web browser and a mobile application.

Web Browser (Left):

- Title: Google Chrome
- Tab: Helios Tx Builder
- URL: 3000-material-baseball-zwzft4.us1.demeter.run
- Content:
 - Header: Helios Tx Builder
 - Section: Connect to your wallet
Input: Nami (selected)
 - Section: View Smart Contract: [vesting.hl](#)
 - Section: Wallet Balance In Lovelace: 109,139,056
 - Section: Beneficiary Wallet Address: `addr_test1qqpau0m8y57y2jf7623uw67muxc9pr9kxunmmgcehujhw0kp62r7dpm82ujifvmgezcvuhtn3ja7fs8hl9xetmx9as3z`
 - Section: Amount Of Ada To Lock: 20
 - Section: Vesting Expiry Date: 01/30/2023
 - Button: Lock Ada
 - Section: Claim Funds

Mobile Application (Right):

- Title: Nami
- User: Owner
- Content:
 - Header: 3000-material-baseball-zwzft4.us1.demeter.run
 - Text: This app requests a signature for:
 - Text: - 20.240819 **ADA**
 - Text: 0.240819 ADA fee
 - Text: Details >
 - Buttons: Cancel (orange), Sign (green)

Helios Tx Builder

Connect to your wallet

Nami

View Smart Contract: [vesting.hl](#)

Transaction Success!!!

TxId [68ace6c8d770740f01f832cf053a8601fc7eab2d8445356dc2fbed3b864f01d3](#)

Please wait until the transaction is confirmed on the blockchain and reload this page before doing another transaction

Please copy and save your vesting key

e79b9ca9d56ac850f563c4b5e61ccaf1104f3e9fd870599a39216036

You will need this key to unlock your funds

Google Chrome ▾ Jan 23 11:59

Helios Tx Builder 3000-material-baseball-zwzft4.us1.demeter.run

Helios Tx Builder

Connect to your wallet
Nami

View Smart Contract: vesting.bl

Wallet Balance In Lovelace 109,790,862

Beneficiary Wallet Address
Enter Beneficiary Wallet Address

Amount Of Ada To Lock
Enter Amount

Vesting Expiry Date
mm/dd/yyyy

Lock Ada

Claim Funds
e79b9ca9d56ac850f563c4b5e61ccaf1104f3e9fd870599a39216036

Claim Funds

Cancel Vesting
Enter The Vesting Key

Elements Console 1 Filter Default levels

1 Issue: 1

```
keyMPH index.tsx?07ff:348  
e79b9ca9d56ac850f563c4b5e61ccaf1104f3e9fd870599a39216036  
getKeyUTXO:keyMPH index.tsx?07ff:301  
e79b9ca9d56ac850f563c4b5e61ccaf1104f3e9fd870599a39216036  
getKeyUTXO:keyName 56657374696e67204b6579 index.tsx?07ff:302  
blockfrost url https://cardano-preprod.blo index.tsx?07ff:305  
ckfrost.io/api/v0/addresses/addr_test1wpezxvvzqe...9ca9d56..  
tx before final index.tsx?07ff:426  
▶ {body: {...}, witnesses: {...}, valid: false, metadata: null}  
VS3: false helios.js?0af6:33311  
✖ Uncaught (in promise) Error: Trace: helios.js?0af6:1334  
line 328 of IR  
RuntimeError on line 44 of IR: transaction rejected  
at RuntimeError.addTrace (helios.js?0af6:1334:1)  
at RuntimeError.addTraceSite (helios.js?0af6:1344:1)  
at UplcAnon.call (helios.js?0af6:8960:1)  
at async UplcProgram.runInternal (helios.js?0af6:11252:1)  
at async UplcProgram.run (helios.js?0af6:11293:1)  
at async UplcProgram.profile (helios.js?0af6:11362:1)  
at async TxWitnesses.executeRedeemers (helios.js?0af6:333  
08:1)  
at async Tx.executeRedeemers (helios.js?0af6:32172:1)  
at async Tx.finalize (helios.js?0af6:32357:1)  
at async claimFunds (index.tsx?07ff:429:5)
```

Beneficiary trying to claim funds before deadline

Google Chrome ▾ Jan 23 12:01

Helios Tx Builder https://3000-material-baseball-zwzft4.us1.demeter.run/api/vesting

```
spending vesting

struct Datum {
    creator: PubKeyHash
    beneficiary: PubKeyHash
    deadline: Time
}

enum Redeemer {
    Cancel
    Claim
}

func main(datum: Datum, redeemer: Redeemer, context: ScriptContext) -> Bool {
    tx: Tx = context.tx;
    now: Time = tx.time_range.start;

    redeemer.switch {
        Cancel => {
            // Check if deadline hasn't passed
            (now < datum.deadline).trace("VS1: ") &&

            // Check that the owner signed the transaction
            tx.is_signed_by(datum.creator).trace("VS2: ")
        },
        Claim => {
            // Check if deadline has passed.
            (now > datum.deadline).trace("VS3: ") &&

            // Check that the beneficiary signed the transaction.
            tx.is_signed_by(datum.beneficiary).trace("VS4: ")
        }
    }
}
```

Owner cancel after deadline

Google Chrome ▾

Helios Tx Builder x +

3000-material-baseball-zwzft4.us1.demeter.run

Helios Tx Builder

Connect to your wallet

Nami

View Smart Contract: [vesting.hl](#)

Wallet Balance In Lovelace 88,898,237

Beneficiary Wallet Address
addr_test1qqpau0m8y57y2jf7623uw67muxc9pr9kxunmmgcehujhw0kp62r7dpm82ujffvmggezcvu1htn

Amount Of Ada To Lock
20

Vesting Expiry Date
01/16/2023

Lock Ada

Claim Funds

Jan 23 12:04

Nami

Owner

3000-material-baseball-zwzft4.us1.demeter.run

This app requests a signature for:

- 20.238795 tA

0.238795 tA fee

Details >

Cancel

Preprod

Sign

Helios Tx Builder

Connect to your wallet

Nami

View Smart Contract: [vesting.hl](#)

Transaction Success!!!

TxId [b2b945064a0e135e471171c6b8a88b545fc5cc076589822b61fe91d3e15a48f3](#)

Please wait until the transaction is confirmed on the blockchain and reload this page before doing another transaction

Please copy and save your vesting key

0a860ee82d4373085cb73dab659f50b1c928d59467f985502eaf25dc

You will need this key to unlock your funds

Google Chrome ▾ Jan 23 12:06

Helios Tx Builder x +

3000-material-baseball-zwzft4.us1.demeter.run

1 of 1 unhandled error

Unhandled Runtime Error

Error: Trace: line 328 of IR
RuntimeError on line 44 of IR: transaction rejected

Source

```
pages/index.tsx (530:4) @ async cancelVesting
  528 |
  529 | // Send any change back to the buyer
> 530 | await tx.finalize(networkParams, changeAddress)
    |   ^
  531 | console.log("tx after final", tx.dump());
  532 |
  533 | console.log("Waiting for wallet signature..")
```

Claim Funds
Enter The Vesting Key

Claim Funds

Cancel Vesting
0a860ee82d4373085cb73dab659f50b1c928d59467f985502eaf25dc
Cancel Vesting

Console

```
keyMPH
0a860ee82d4373085cb73dab659f50b1c928d59467f985502eaf25dc
getKeyUTXO:keyMPH
index.tsx?07ff:301
0a860ee82d4373085cb73dab659f50b1c928d59467f985502eaf25dc
getKeyUTXO:keyName 56657374696e67204b6579 index.tsx?07ff:302
blockfrost url https://cardano-preprod.blo index.tsx?07ff:305
ckfrost.io/api/v0/addresses/addr_testlwpezxvvzqe...0ee82d4...
tx before final
index.tsx?07ff:527
▶ {body: {...}, witnesses: {...}, valid: false, metadata: null}
VS1: false
helios.js?0af6:3331
✖ Uncaught (in promise) Error: Trace: helios.js?0af6:1334
line 328 of IR
RuntimeError on line 44 of IR: transaction rejected
at RuntimeError.addTrace (helios.js?0af6:1334:1)
at RuntimeError.addTraceSite (helios.js?0af6:1344:1)
at UplcAnon.call (helios.js?0af6:8960:1)
at async UplcProgram.runInternal (helios.js?0af6:11252:1)
at async UplcProgram.run (helios.js?0af6:11293:1)
at async UplcProgram.profile (helios.js?0af6:11362:1)
at async TxWitnesses.executeRedeemers (helios.js?0af6:333
08:1)
at async Tx.executeRedeemers (helios.js?0af6:32172:1)
at async Tx.finalize (helios.js?0af6:32357:1)
at async cancelVesting (index.tsx?07ff:530:5)
```

Google Chrome ▾ Jan 23 12:07

Helios Tx Builder x https://3000-material-bas x +

3000-material-baseball-zwzft4.us1.demeter.run/api/vesting

```
spending vesting

struct Datum {
    creator: PubKeyHash
    beneficiary: PubKeyHash
    deadline: Time
}

enum Redeemer {
    Cancel
    Claim
}

func main(datum: Datum, redeemer: Redeemer, context: ScriptContext) -> Bool {
    tx: Tx = context.tx;
    now: Time = tx.time_range.start;

    redeemer.switch {
        Cancel => {
            // Check if deadline hasn't passed
            (now < datum.deadline).trace("VS1: ") &&

            // Check that the owner signed the transaction
            tx.is_signed_by(datum.creator).trace("VS2: ")
        },
        Claim => {
            // Check if deadline has passed.
            (now > datum.deadline).trace("VS3: ") &&

            // Check that the beneficiary signed the transaction.
            tx.is_signed_by(datum.beneficiary).trace("VS4: ")
        }
    }
}
```


Donation (Lock Ada)

Positive Test Cases

The screenshot shows a Shopify payment page for a donation item named "Widget". The item is listed with a price of \$50.00 CAD. The payment section includes options for Credit card, PayPal, and Pay With Ada. The "Pay With Ada" option is selected, with a note below stating "Paying with Ada using your Cardano Wallet". At the bottom, there are buttons for "Return to information" and "Complete order".

Jan 23 15:55

Payment - test-payment-poc

test-payment-poc

Cart > Information > Payment

Contact lawrence.ley@contextolutions.ca Change

Billing 123 Street, Miami ON M1T 2N2, Canada Change

Widget \$50.00

Total CAD \$50.00

Credit card VISA MasterCard AMEX DISCOVER and more...

PayPal

Pay With Ada

Paying with Ada using your Cardano Wallet

Return to information Complete order

All rights reserved test-payment-poc

Jan 23 15:56

Thank you for your purchase + test-payment-poc.myshopify.com/checkouts/c/d8549daff51bc85dbf360c285a8511c3/thank_you

Widget \$50.00

Total CAD \$50.00

Your order is confirmed
Please select to the Pay Now With Ada link below to pay using your Cardano Wallet

Pay To Complete Your Order

Pay Now In Ada

Contact information Payment method
lawrence.ley@contextssolutions.ca Pay With Ada - \$50.00

Billing address
Test
123 Street
Miami ON M1T 2N2
Canada

Need help? [Contact us](#)

Continue shopping

Jan 23 16:05

Helios Tx Builder

x +

3000-material-baseball-zwzft4.us1.demeter.run/?id=5244835692823

Helios Tx Builder

Connect to your wallet

Nami

View Smart Contract: [donation.hl](#)

Wallet Balance In Lovelace 1,000,000,000

Buy Product

Order ID 5244835692823

Order Total \$50.00

ADA Amount Estimate 133.51

[Pay With Ada](#)

Jan 23 16:09

Helios Tx Builder

3000-material-baseball-zwzft4.us1.demeter.run/?id=5244835692823

Helios Tx Builder

Connect to your wallet

Nami

View Smart Contract: [donation.hl](#)

Wallet Balance In Lovelace 1,000,000,000

Buy Product

Order ID 5244835692823

Order Total \$50.00

ADA Amount Estimate 133.51

Pay With Ada

Nami Shopper

3000-material-baseball-zwzft4.us1.demeter.run

This app requests a signature for:

- 133.678317 tA

0.168317 tA fee

Details >

Cancel

Sign

ⓘ Preprod

Jan 23 16:10

Helios Tx Builder

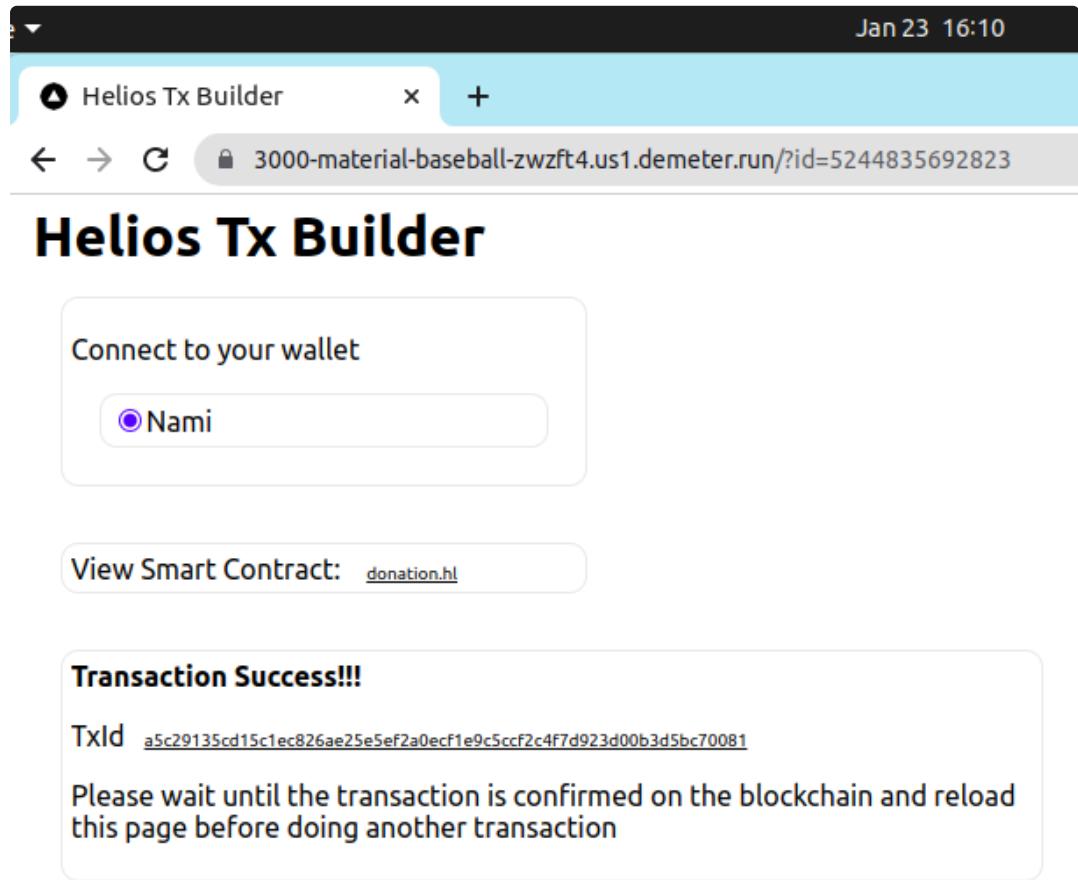
Connect to your wallet
Nami

View Smart Contract: [donation.hl](#)

Transaction Success!!!

TxId [a5c29135cd15c1ec826ae25e5ef2a0ecf1e9c5ccf2c4f7d923d00b3d5bc70081](#)

Please wait until the transaction is confirmed on the blockchain and reload this page before doing another transaction



Google Chrome ▾ Jan 23 16:11

Helios Tx Builder

Transaction a5c29135cd15c1ec826ae25e5ef2a0ecf1e9c5ccf2c4f7d923d00b3d5bc70081

Cexplorer.io (preprod)

Transaction detail

Hash: [a5c29135cd15c1ec826ae25e5ef2a0ecf1e9c5ccf2c4f7d923d00b3d5bc70081](#)

Date	38s ago
Epoch	47
Block	551,885
Slot	18,825,011 (epoch slot 162,611)
Total Output	999.83 A (\$ 369.5) B 0.001621
Fee	0.17 A (\$ 0)
Outputs	2

0/8 Assurance

0.29kB (0.29kB) Transaction Size

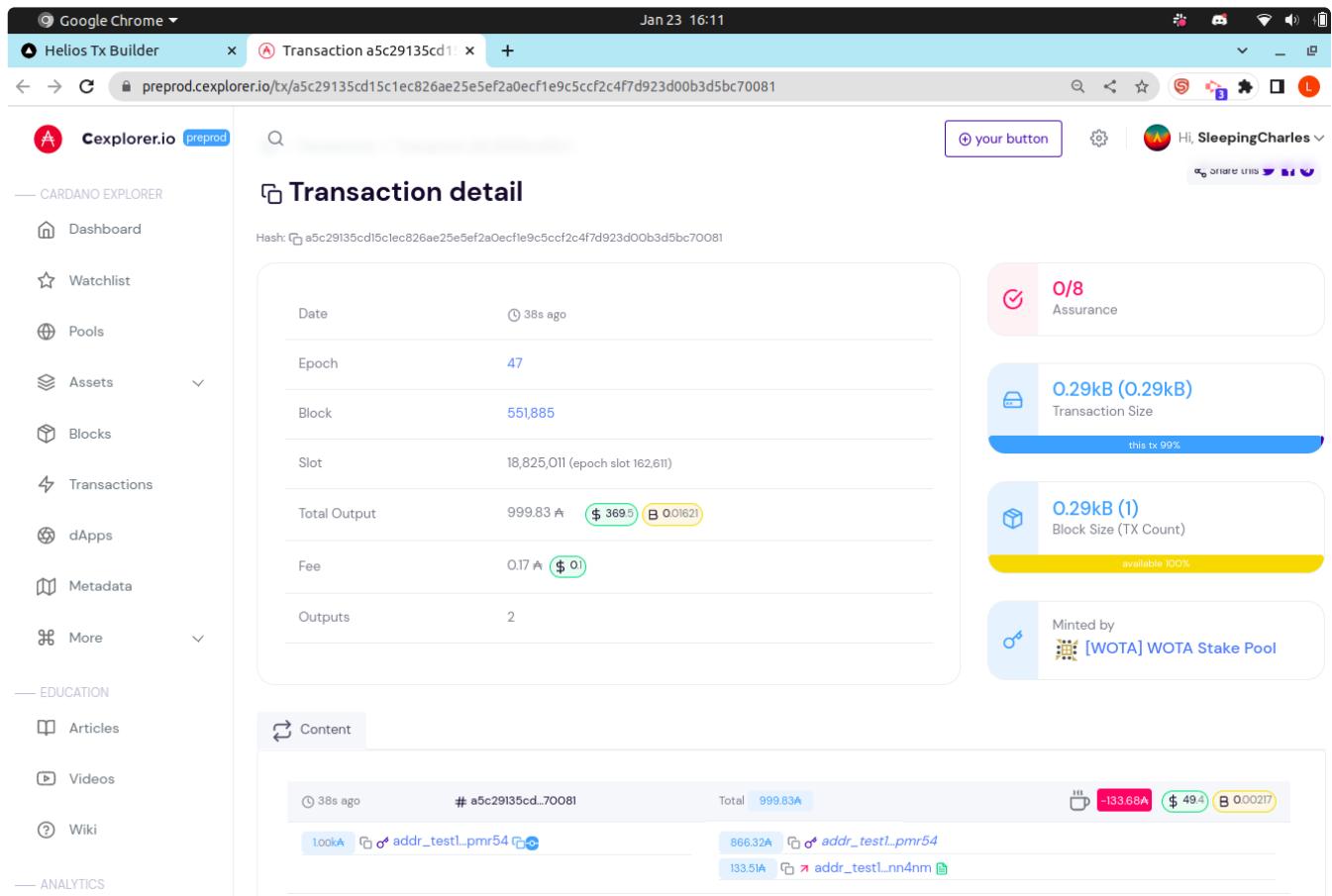
0.29kB (1) Block Size (TX Count)

Minted by [WOTA] WOTA Stake Pool

Content

38s ago # a5c29135cd...70081 Total 999.83A

addr_test1...pmr54 866.32A addr_test1...pmr54 133.51A addr_test1...nn4nm



Google Chrome ▾ Jan 23 16:12

Helios Tx Builder x https://3000-material-bas... x Transaction a5c29135cd15 x +

3000-material-baseball-zwzft4.us1.demeter.run/api/donation

```
spending vesting

struct Datum {
    orderAmount: Int
    orderId: ByteArray
    adaUsdPrce: ByteArray
}

enum Redeemer {
    Spend
    Refund
}

// Define the pkh of the merchant
const MERCHANT_PKH: ByteArray = #3d62bfdff66855d150b6cf97e4509ef78f5ea6245f642adf7629338c
const merchantPkh: PubKeyHash = PubKeyHash::new(MERCHANT_PKH)

// Define the pkh of the Donation
const DONOR_PKH: ByteArray = #b2b0a5ceaf7bc9a56fe619819b8891e6baff5c2cb275e333f97a9f
const donorPkh: PubKeyHash = PubKeyHash::new(DONOR_PKH)

// Define the pkh of the Refund
const REFUND_PKH: ByteArray = #a0aab2573c3bf101740f6e860e35cb92eea0dd30e8117b30771029a9
const refundPkh: PubKeyHash = PubKeyHash::new(REFUND_PKH)

// Define the pkh of the Admin
const ADMIN_PKH: ByteArray = #b9abcf6867519e28042048aa11207214a52e6d5d3288b752d1c27682
const adminPkh: PubKeyHash = PubKeyHash::new(ADMIN_PKH)

// Define the split merchant to donor
const SPLIT: Int = 90

// Define minimum Ada for a donation
const minAda = 1000000

// Increment version number for the contract if needed
const version = 1

func getDonationAmt (orderAmt: Int) -> Int {
    donationAmt: Int = (orderAmt * (100 - SPLIT)) / 100;

    if (donationAmt < minAda) {
        minAda
    } else {
        donationAmt
    }
}

func main(datum: Datum, redeemer: Redeemer, context: ScriptContext) -> Bool {
    tx: Tx = context.tx;
```

Google Chrome ▾ Jan 23 16:13

Helios Tx Builder x https://3000-material-bas... x Transaction a5c29135cd1... x +

← → C 🔒 3000-material-baseball-zwzft4.us1.demeter.run/api/donation

```
// Define the pkh of the Admin
const ADMIN_PKH: ByteArray = #b9abcf6867519e28042048aa11207214a52e6d5d3288b752d1c27682
const adminPkh: PubKeyHash = PubKeyHash::new(ADMIN_PKH)

// Define the split merchant to donor
const SPLIT: Int = 90

// Define minimum Ada for a donation
const minAda = 1000000

// Increment version number for the contract if needed
const version = 1

func getDonationAmt (orderAmt: Int) -> Int {
    donationAmt: Int = (orderAmt * (100 - SPLIT)) / 100;

    if (donationAmt < minAda) {
        minAda
    } else {
        donationAmt
    }
}

func main(datum: Datum, redeemer: Redeemer, context: ScriptContext) -> Bool {
    tx: Tx = context.tx;

    redeemer.switch {
        Spend => {
            orderAmt: Int = datum.orderAmount;
            donationAmt: Int = getDonationAmt(orderAmt);
            merchantAmt: Int = orderAmt - donationAmt;
            donationAmtVal: Value = Value::lovelace(donationAmt);
            merchantAmtVal: Value = Value::lovelace(merchantAmt);
            merchOutTxs : []TxOutput = tx.outputs_sent_to(merchantPkh);
            donorOutTxs : []TxOutput = tx.outputs_sent_to(donorPkh);

            tx.is_signed_by(adminPkh).trace("DN1: ") &&
                (merchOutTxs.head.value == merchantAmtVal).trace("DN2: ") &&
                (donorOutTxs.head.value == donationAmtVal).trace("DN3: ")
        },
        Refund => {
            orderAmt: Int = datum.orderAmount;
            returnAmtVal: Value = Value::lovelace(orderAmt);
            refundOutTxs : []TxOutput = tx.outputs_sent_to(refundPkh);

            tx.is_signed_by(adminPkh).trace("DN4: ") &&
                (refundOutTxs.head.value == returnAmtVal).trace("DN5: ")
        }
    }
}
```


Donation (Unlock Ada)

Positive Test Cases

```
abc@material-baseball-zwzft4-0:~/workspace/repo/donation/scripts/cardano-cli$ ./init-tx.sh pr  
+ '[' -z preprod ']'  
+ ENV=preprod  
++ readlink -f ./init-tx.sh  
++ dirname /config/workspace/repo/donation/scripts/cardano-cli/init-tx.sh  
+ MY_DIR=/config/workspace/repo/donation/scripts/cardano-cli  
+ source /config/workspace/repo/donation/scripts/cardano-cli/preprod/global-export-variables.  
++ set -e  
++ set -o pipefail  
++ export BASE=/config/workspace/repo/donation  
++ BASE=/config/workspace/repo/donation  
++ export WORK=/config/workspace/repo/donation/work  
++ WORK=/config/workspace/repo/donation/work  
++ export TESTNET_MAGIC=1  
++ TESTNET_MAGIC=1  
++ export ADMIN_VKEY=/config/workspace/repo/.keys/admin/key.vkey  
++ ADMIN_VKEY=/config/workspace/repo/.keys/admin/key.vkey  
++ export ADMIN_SKEY=/config/workspace/repo/.keys/admin/key.skey  
++ ADMIN_SKEY=/config/workspace/repo/.keys/admin/key.skey  
++ export ADMIN_PKH=/config/workspace/repo/.keys/admin/key.pkh  
++ ADMIN_PKH=/config/workspace/repo/.keys/admin/key.pkh  
++ export MIN_ADA_OUTPUT_TX=2000000  
++ MIN_ADA_OUTPUT_TX=2000000  
++ export MIN_ADA_OUTPUT_TX_REF=20000000  
++ MIN_ADA_OUTPUT_TX_REF=20000000  
++ export COLLATERAL_ADA=5000000  
++ COLLATERAL_ADA=5000000  
++ export MERCHANT_ADDR=addr_test1vq7k907l7e59t52skm8e0ezsnmmc7h4xy30kg2klwc5n8rqug2pds  
++ MERCHANT_ADDR=addr_test1vq7k907l7e59t52skm8e0ezsnmmc7h4xy30kg2klwc5n8rqug2pds  
++ export DONOR_ADDR=addr_test1vzetpfww4aaunft0ucvcrxugj8nt4lhltksktya0rx0uh48cqghjfg  
++ DONOR_ADDR=addr_test1vzetpfww4aaunft0ucvcrxugj8nt4lhltksktya0rx0uh48cqghjfg  
++ export REFUND_ADDR=addr_test1vzs24vjh8salzqt5pahgvr34ewfwagxaxr5pz7eswugzn2gmw4f5w  
++ REFUND_ADDR=addr_test1vzs24vjh8salzqt5pahgvr34ewfwagxaxr5pz7eswugzn2gmw4f5w  
++ export VAL_REF_SCRIPT=b8a3af2835b5f2789b1f9e1d53c953a26db9a7dfab0e204e8629d85772c9fc30#1  
++ VAL_REF_SCRIPT=b8a3af2835b5f2789b1f9e1d53c953a26db9a7dfab0e204e8629d85772c9fc30#1  
++ export SPLIT=90
```

TxHash	TxIx	Amount
71b83747636e2bbe0726ca258ea4c56ca902d4cdf1a247e2771e13e84d3ee1d3	0	20000000 lovelace
a5c29135cd15c1ec826ae25e5ef2a0ecf1e9c5ccf2c4f7d923d00b3d5bc70081	0	133510000 lovelace

```
abc@material-baseball-zwzft4-0:~/workspace/repo/donation/scripts/cardano-cli$ ./spend-tx.sh p
+ '[' -z preprod ']'
+ ENV=preprod
++ readlink -f ./spend-tx.sh
++ dirname /config/workspace/repo/donation/scripts/cardano-cli/spend-tx.sh
+ MY_DIR=/config/workspace/repo/donation/scripts/cardano-cli
+ source /config/workspace/repo/donation/scripts/cardano-cli/preprod/global-export-variables.
++ set -e
++ set -o pipefail
++ export BASE=/config/workspace/repo/donation
++ BASE=/config/workspace/repo/donation
++ export WORK=/config/workspace/repo/donation/work
++ WORK=/config/workspace/repo/donation/work
++ export TESTNET_MAGIC=1
++ TESTNET_MAGIC=1
++ export ADMIN_VKEY=/config/workspace/repo/.keys/admin/key.vkey
++ ADMIN_VKEY=/config/workspace/repo/.keys/admin/key.vkey
++ export ADMIN_SKEY=/config/workspace/repo/.keys/admin/key.skey
++ ADMIN_SKEY=/config/workspace/repo/.keys/admin/key.skey
++ export ADMIN_PKH=/config/workspace/repo/.keys/admin/key.pkh
++ ADMIN_PKH=/config/workspace/repo/.keys/admin/key.pkh
++ export MIN_ADA_OUTPUT_TX=2000000
++ MIN_ADA_OUTPUT_TX=2000000
++ export MIN_ADA_OUTPUT_TX_REF=20000000
++ MIN_ADA_OUTPUT_TX_REF=20000000
++ export COLLATERAL_ADA=5000000
++ COLLATERAL_ADA=5000000
++ export MERCHANT_ADDR=addr_test1vq7k907l7e59t52skm8e0ezsnmmc7h4xy30kg2klwc5n8rqug2pds
++ MERCHANT_ADDR=addr_test1vq7k907l7e59t52skm8e0ezsnmmc7h4xy30kg2klwc5n8rqug2pds
++ export DONOR_ADDR=addr_test1vzetpfww4aaunft0ucvcrxugj8nt4lhltksktya0rx0uh48cqghjfg
++ DONOR_ADDR=addr_test1vzetpfww4aaunft0ucvcrxugj8nt4lhltksktya0rx0uh48cqghjfg
++ export REFUND_ADDR=addr_test1vzs24vjh8salzqt5pahgvr34ewfwagxaxr5pz7eswugzn2gmw4f5w
++ REFUND_ADDR=addr_test1vzs24vjh8salzqt5pahgvr34ewfwagxaxr5pz7eswugzn2gmw4f5w
++ export VAL_REF_SCRIPT=71b83747636e2bbe0726ca258ea4c56ca902d4cdf1a247e2771e13e84d3ee1d3#0
++ VAL_REF_SCRIPT=71b83747636e2bbe0726ca258ea4c56ca902d4cdf1a247e2771e13e84d3ee1d3#0
++ export SPLIT=90
++ SPLIT=90
++ export MIN_ADA_DONATION=1000000
++ MIN_ADA_DONATION=1000000
+ '[' preprod == mainnet ']'
+ network='--testnet-magic 1'
+ mkdir -p /config/workspace/repo/donation/work
+ mkdir -p /config/workspace/repo/donation/work-backup
+ rm -f /config/workspace/repo/donation/work/ada_usd_price.encoded /config/workspace/repo/donat
+ rm -f '/config/workspace/repo/donation/work-backup/*'
+ cardano-cli query protocol-parameters --testnet-magic 1 --out-file /config/workspace/repo/donat
+ validator_script=/config/workspace/repo/donation/scripts/cardano-cli/preprod/data/donation.i
++ cardano-cli address build --payment-script-file /config/workspace/repo/donation/scripts/can
+ validator_script_addr=addr_test1wzhzlyg7ewqjvj0zkf8jhu5vmaxrjaqnp8whxajg545kgsgjnn4nm
+ redeemer_file_path=/config/workspace/repo/donation/scripts/cardano-cli/preprod/data/redeeme
++ cat /config/workspace/repo/.keys/admin/key.pkh
+ admin_pkh=b9abcf6867519e28042048aa11207214a52e6d5d3288b752d1c27682
```

```

++ cardano-cli address build --testnet-magic 1 --payment-verification-key-file /config/workspace/repo/donation/work/admin-utxo.json
+ admin_utxo_addr=addr_test1vzu6hnmgvageu2qyypy25yfqwg222tndt5eg3d6j68p8dqspgdxn7
+ cardano-cli query utxo --address addr_test1vzu6hnmgvageu2qyypy25yfqwg222tndt5eg3d6j68p8dqspgdxn7
+ cat /config/workspace/repo/donation/work/admin-utxo.json
+ jq -r 'to_entries[] | select(.value.value.lovelace > 5000000) | .key'
+ readarray admin_utxo_valid_array
++ echo 21eb969fa8880d6431b31b9c0f638f5becd9af1fce1b8278ecad71639a1cc782#0
++ tr -d '\n'
+ admin_utxo_in=21eb969fa8880d6431b31b9c0f638f5becd9af1fce1b8278ecad71639a1cc782#0
+ cat /config/workspace/repo/donation/work/admin-utxo.json
+ jq -r 'to_entries[] | select(.value.value.lovelace == 5000000) | .key'
+ readarray admin_utxo_valid_array
++ echo e06d00315b692ac604cbd2105019dc7d524d3e500d6a0b8c0258ce38699978d6#0
++ tr -d '\n'
+ admin_utxo_collateral_in=e06d00315b692ac604cbd2105019dc7d524d3e500d6a0b8c0258ce38699978d6#0
+ readarray black_list_utxo_array
+ cardano-cli query utxo --address addr_test1wzhzlyg7ewqjvj0zkf8jhu5vmaxrjaqnp8whxajg545kgsgj1
+ jq -r 'to_entries[] | select(.value.inlineDatum | length > 0) | .key'
+ cat /config/workspace/repo/donation/work/validator-utxo.json
+ readarray order_utxo_in_array
+ order_array_length=1
+ order_utxo_in=
+ (( c=0 ))
+ (( c<1 ))
+ printf %s '79eaa22fc34832e998164f23b44ef87d00f4d70c6098df19198af526ae591dac#0
' '26b06ef773ac553c8216d87f5bd37e6cae2de5c82eccef03861cec66bad4b75b#0
' '6a8aececa2d95d1dd2637d612397a30709bfd99dc80766438435b33045c56fde#0
' '81adf7b562b8c4fe97eb21da67ea64c890b2b0d2f79f8c35c0f3850d9bab2f02#0
'
+ grep -q -x 'a5c29135cd15c1ec826ae25e5ef2a0ecf1e9c5ccf2c4f7d923d00b3d5bc70081#0
'
++ echo a5c29135cd15c1ec826ae25e5ef2a0ecf1e9c5ccf2c4f7d923d00b3d5bc70081#0
++ tr -d '\n'
+ order_utxo_in=a5c29135cd15c1ec826ae25e5ef2a0ecf1e9c5ccf2c4f7d923d00b3d5bc70081#0
+ break
+ '[' -z a5c29135cd15c1ec826ae25e5ef2a0ecf1e9c5ccf2c4f7d923d00b3d5bc70081#0 ']'
++ jq -r 'to_entries[]
| select(.key == "a5c29135cd15c1ec826ae25e5ef2a0ecf1e9c5ccf2c4f7d923d00b3d5bc70081#0")
| .value.inlineDatum' /config/workspace/repo/donation/work/validator-utxo.json
+ order_datum_in='{
  "list": [
    {
      "int": 133010000
    },
    {
      "bytes": "35323434383335363932383233"
    },
    {
      "bytes": "302e3337353932"
    }
  ]
}'
+ echo -n '{
```

```

"list": [
  {
    "int": 133010000
  },
  {
    "bytes": "35323434383335363932383233"
  },
  {
    "bytes": "302e3337353932"
  }
]
}'
++ jq -r '.list[0].int' /config/workspace/repo/donation/work/datum-in.json
+ order_ada=133010000
++ jq -r '.list[1].bytes' /config/workspace/repo/donation/work/datum-in.json
+ order_id_encoded=35323434383335363932383233
+ echo -n 35323434383335363932383233
++ python3 hexdump.py -r /config/workspace/repo/donation/work/order_id.encoded
+ order_id=5244835692823
++ jq -r '.list[2].bytes' /config/workspace/repo/donation/work/datum-in.json
+ ada_usd_price_encoded=302e3337353932
+ echo -n 302e3337353932
++ python3 hexdump.py -r /config/workspace/repo/donation/work/ada_usd_price.encoded
+ ada_usd_price=0.37592
+ merchant_split=90
+ donor_split=10
+ donor_ada_amount=13301000
+ (( 13301000 < 1000000 ))
+ donor_ada=13301000
+ merchant_ada=119709000
++ date +%Y/%m/%d-%H:%M:%S
+ now=2023/01/23-22:32:27
++ curl -H 'X-Shopify-Access-Token: shpat_XXXXXXX' https://test-payment-poc.myshopify.com/admin/orders/13301000
++ jq -r .order.total_price
% Total    % Received % Xferd  Average Speed   Time     Time      Time Current
                                         Dload  Upload   Total Spent   Left Speed
100  5809     0  5809     0      0  18185       0 --:--:-- --:--:-- --:--:-- 18210
+ shopify_order_amount=50.00
++ python3 -c 'print(round((50.00 / 0.37592), 3))'
+ shopify_order_ada=133.007
++ python3 -c 'print(133.007 * 1000000)'
+ shopify_order_lovelace=133007000.0
+ shopify_order_ada_truncated=133007000
+ difference=3000
++ echo 3000
+ difference_abs=3000
+ (( 3000 > 10000 ))
+ metadata='{
"1" : {
  "order_detail" : {
    "date" : "2023/01/23-22:32:27",
    "donation_ada_amount" : "13301000",
    "donation_split" : "10%",
}
}
}'
```

```

    "order_id" : "5244835692823",
    "order_ada_amount" : "133010000",
    "ada_usd_price" : "0.37592",
    "version" : "0.1"
  }
}

'
+ echo '{' '"1"' : '{' '"order_detail"' : '{' '"date"' : '"2023/01/23-22:32:27",' '"donation_i
+ metadata_file_path=/config/workspace/repo/donation/scripts/cardano-cli/preprod/data/donation
+ cardano-cli transaction build --babbage-era --cardano-mode --testnet-magic 1 --change-addre
Estimated transaction fee: Lovelace 223509
+ echo 'tx has been built'
tx has been built
+ cardano-cli transaction sign --tx-body-file /config/workspace/repo/donation/work/spend-tx-a
+ echo 'tx has been signed'
tx has been signed
+ echo 'Submit the tx with plutos script and wait 5 seconds...'
Submit the tx with plutos script and wait 5 seconds...
+ cardano-cli transaction submit --tx-file /config/workspace/repo/donation/work/spend-tx-alon
Transaction successfully submitted.
+ curl -s -S -d '{"order":{"id":5244835692823,"tags":"PAID IN FULL"}}' -X PUT https://test-pa

```

Negative Test Cases

The screenshot shows a web browser window for the Cardano explorer. The URL is https://preprod.explorer.io/address/addr_test1wr3m0vrrccxygtmexw7ur7vujz5gqg4fjn0k.... The page title is "TXs Address addr_test1w". The main content area shows the "Address Detail > TXs" for the specified address. The address itself is displayed as a long string of characters. The total balance is listed as 866.15 ADA. Below the balance, a recent transaction is shown, which is a withdrawal of 866.32 ADA to another address. The transaction timestamp is 44 seconds ago.

```
abc@material-baseball-zwzft4-0:~/workspace/repo/donation$ cardano-cli query utxo --address address
                                         TxHash          TxIx      Amount
-----
c953c437244a7c272d3fe7ecac7e16905a172c349155f825d9840d9f2182a03c      0      133190000 lovelace
```

```
abc@material-baseball-zwzft4-0:~/workspace/repo/donation/scripts/cardano-clis ./init-tx.sh pr
+ '[' -z preprod ']'
+ ENV=preprod
++ readlink -f ./init-tx.sh
++ dirname /config/workspace/repo/donation/scripts/cardano-cli/init-tx.sh
+ MY_DIR=/config/workspace/repo/donation/scripts/cardano-cli
+ source /config/workspace/repo/donation/scripts/cardano-cli/preprod/global-export-variables.s
++ set -e
++ set -o pipefail
++ export BASE=/config/workspace/repo/donation
++ BASE=/config/workspace/repo/donation
++ export WORK=/config/workspace/repo/donation/work
++ WORK=/config/workspace/repo/donation/work
++ export TESTNET_MAGIC=1
++ TESTNET_MAGIC=1
++ export ADMIN_VKEY=/config/workspace/repo/.keys/admin/key.vkey
++ ADMIN_VKEY=/config/workspace/repo/.keys/admin/key.vkey
++ export ADMIN_SKEY=/config/workspace/repo/.keys/admin/key.skey
++ ADMIN_SKEY=/config/workspace/repo/.keys/admin/key.skey
++ export ADMIN_PKH=/config/workspace/repo/.keys/admin/key.pkh
++ ADMIN_PKH=/config/workspace/repo/.keys/admin/key.pkh
++ export MIN_ADA_OUTPUT_TX=2000000
++ MIN_ADA_OUTPUT_TX=2000000
++ export MIN_ADA_OUTPUT_TX_REF=25000000
++ MIN_ADA_OUTPUT_TX_REF=25000000
++ export COLLATERAL_ADA=5000000
++ COLLATERAL_ADA=5000000
++ export MERCHANT_ADDR=addr_test1vq7k907l7e59t52skm8e0ezsnmmc7h4xy30kg2klwc5n8rqug2pds
++ MERCHANT_ADDR=addr_test1vq7k907l7e59t52skm8e0ezsnmmc7h4xy30kg2klwc5n8rqug2pds
++ export DONOR_ADDR=addr_test1vzetpfww4aaunft0ucvcrxugj8nt4lhltksktya0rx0uh48cqghjfg
++ DONOR_ADDR=addr_test1vzetpfww4aaunft0ucvcrxugj8nt4lhltksktya0rx0uh48cqghjfg
++ export REFUND_ADDR=addr_test1vzs24vjh8salzqt5pahgvr34ewfwagxaxr5pz7eswugzn2gmw4f5w
++ REFUND_ADDR=addr_test1vzs24vjh8salzqt5pahgvr34ewfwagxaxr5pz7eswugzn2gmw4f5w
++ export VAL_REF_SCRIPT=71b83747636e2bbe0726ca258ea4c56ca902d4cdf1a247e2771e13e84d3ee1d3#0
++ VAL_REF_SCRIPT=71b83747636e2bbe0726ca258ea4c56ca902d4cdf1a247e2771e13e84d3ee1d3#0
++ export SPLIT=80
++ SPLIT=80
++ export MIN_ADA_DONATION=1000000
++ MIN_ADA_DONATION=1000000
+ '[' preprod == mainnet ']'
+ network='--testnet-magic 1'
+ mkdir -p /config/workspace/repo/donation/work
+ mkdir -p /config/workspace/repo/donation/work-backup
+ rm -f /config/workspace/repo/donation/work/admin-utxo-collateral-valid.json /config/workspace/repo/donation/work-backup/*
+ cardano-cli query protocol-parameters --testnet-magic 1 --out-file /config/workspace/repo/donation/validator_script=/config/workspace/repo/donation/scripts/cardano-cli/preprod/data/donation.json
++ cardano-cli address build --payment-script-file /config/workspace/repo/donation/scripts/cardano-cli/validator_script_addr=addr_test1wr3m0vrrccxygtmexw7ur7vujjz5gqg4fjn0k2sjjsjn04sdckk0k
++ cat /config/workspace/repo/.keys/admin/key.pkh
+ admin_pkh=b9abcf6867519e28042048aa11207214a52e6d5d3288b752d1c27682
+ echo 'starting donation init script'
```

```

starting donation init script
++ cardano-cli address build --testnet-magic 1 --payment-verification-key-file /config/workspace/repo/donation/work/admin-utxo.json
+ admin_utxo_addr=addr_test1vzu6hnmgvageu2qyypy25yfqwg222tn5eg3d6j68p8dqspgdxn7
+ cardano-cli query utxo --address addr_test1vzu6hnmgvageu2qyypy25yfqwg222tn5eg3d6j68p8dqspgdxn7
+ cat /config/workspace/repo/donation/work/admin-utxo.json
+ jq -r 'to_entries[] | select(.value.value.lovelace > 25000000) | .key'
+ readarray admin_utxo_valid_array
++ echo 71b83747636e2bbe0726ca258ea4c56ca902d4cdf1a247e2771e13e84d3ee1d3#1
++ tr -d '\n'
+ admin_utxo_in=71b83747636e2bbe0726ca258ea4c56ca902d4cdf1a247e2771e13e84d3ee1d3#1
+ cat /config/workspace/repo/donation/work/admin-utxo.json
+ jq -r 'to_entries[] | select(.value.value.lovelace == 5000000) | .key'
+ readarray admin_utxo_valid_array
++ tr -d '\n'
++ echo e06d00315b692ac604cbd2105019dc7d524d3e500d6a0b8c0258ce38699978d6#0
+ admin_utxo_collateral_in=e06d00315b692ac604cbd2105019dc7d524d3e500d6a0b8c0258ce38699978d6#0
+ cardano-cli transaction build --babbage-era --cardano-mode --testnet-magic 1 --change-address=addr_test1vzu6hnmgvageu2qyypy25yfqwg222tn5eg3d6j68p8dqspgdxn7
Estimated transaction fee: Lovelace 240653
+ echo 'tx has been built'
tx has been built
+ cardano-cli transaction sign --tx-body-file /config/workspace/repo/donation/work/init-tx.alonzo
+ echo 'tx has been signed'
tx has been signed
+ echo 'Submit the tx with plutos script and wait 5 seconds...'
Submit the tx with plutos script and wait 5 seconds...
+ cardano-cli transaction submit --tx-file /config/workspace/repo/donation/work/init-tx.alonzo
Transaction successfully submitted.

```

	TxHash	TxIx	Amount
c953c437244a7c272d3fe7ecac7e16905a172c349155f825d9840d9f2182a03c	0	133190000	lovelace
d6c4a585ffbbdcc371a3472e829133643c9dfa4f1b61a4ccb8e75fd4480c22ce	0	25000000	lovelace

Incorrect donation split

```
abc@material-baseball-zwzft4-0:~/workspace/repo/donation/scripts/cardano-cli$ ./spend-tx.sh p
+ '[' -z preprod ']'
+ ENV=preprod
++ readlink -f ./spend-tx.sh
++ dirname /config/workspace/repo/donation/scripts/cardano-cli/spend-tx.sh
+ MY_DIR=/config/workspace/repo/donation/scripts/cardano-cli
+ source /config/workspace/repo/donation/scripts/cardano-cli/preprod/global-export-variables.
++ set -e
++ set -o pipefail
++ export BASE=/config/workspace/repo/donation
++ BASE=/config/workspace/repo/donation
++ export WORK=/config/workspace/repo/donation/work
++ WORK=/config/workspace/repo/donation/work
++ export TESTNET_MAGIC=1
++ TESTNET_MAGIC=1
++ export ADMIN_VKEY=/config/workspace/repo/.keys/admin/key.vkey
++ ADMIN_VKEY=/config/workspace/repo/.keys/admin/key.vkey
++ export ADMIN_SKEY=/config/workspace/repo/.keys/admin/key.skey
++ ADMIN_SKEY=/config/workspace/repo/.keys/admin/key.skey
++ export ADMIN_PKH=/config/workspace/repo/.keys/admin/key.pkh
++ ADMIN_PKH=/config/workspace/repo/.keys/admin/key.pkh
++ export MIN_ADA_OUTPUT_TX=2000000
++ MIN_ADA_OUTPUT_TX=2000000
++ export MIN_ADA_OUTPUT_TX_REF=25000000
++ MIN_ADA_OUTPUT_TX_REF=25000000
++ export COLLATERAL_ADA=5000000
++ COLLATERAL_ADA=5000000
++ export MERCHANT_ADDR=addr_test1vq7k907l7e59t52skm8e0ezsnmmc7h4xy30kg2klwc5n8rqug2pds
++ MERCHANT_ADDR=addr_test1vq7k907l7e59t52skm8e0ezsnmmc7h4xy30kg2klwc5n8rqug2pds
++ export DONOR_ADDR=addr_test1vzetpfww4aaunft0ucvcrxugj8nt4lhltksktya0rx0uh48cqghjfg
++ DONOR_ADDR=addr_test1vzetpfww4aaunft0ucvcrxugj8nt4lhltksktya0rx0uh48cqghjfg
++ export REFUND_ADDR=addr_test1vzs24vjh8salzqt5pahgvr34ewfwagxaxr5pz7eswugzn2gmw4f5w
++ REFUND_ADDR=addr_test1vzs24vjh8salzqt5pahgvr34ewfwagxaxr5pz7eswugzn2gmw4f5w
++ export VAL_REF_SCRIPT=d6c4a585ffbbdcc371a3472e829133643c9dfa4f1b61a4ccb8e75fd4480c22ce#0
++ VAL_REF_SCRIPT=d6c4a585ffbbdcc371a3472e829133643c9dfa4f1b61a4ccb8e75fd4480c22ce#0
++ export SPLIT=80
++ SPLIT=80
++ export MIN_ADA_DONATION=1000000
++ MIN_ADA_DONATION=1000000
+ '[' preprod == mainnet ']'
+ network='--testnet-magic 1'
+ mkdir -p /config/workspace/repo/donation/work
+ mkdir -p /config/workspace/repo/donation/work-backup
+ rm -f /config/workspace/repo/donation/work/admin-utxo-collateral-valid.json /config/workspace/repo/donation/work-backup/*
+ cardano-cli query protocol-parameters --testnet-magic 1 --out-file /config/workspace/repo/donation/validator_script=/config/workspace/repo/donation/scripts/cardano-cli/preprod/data/donation.validator-script
++ cardano-cli address build --payment-script-file /config/workspace/repo/donation/scripts/cardano-cli/preprod/data/donation.validator-script
++ validator_script_addr=addr_test1wr3m0vrrccxygtmexw7ur7vujjz5gqg4fjn0k2sjsjn04sdckk0k
+ redeemer_file_path=/config/workspace/repo/donation/scripts/cardano-cli/preprod/data/redeemer.cat
++ cat /config/workspace/repo/.keys/admin/key.pkh
+ admin_pkh=b9abcf6867519e28042048aa11207214a52e6d5d3288b752d1c27682
```

```

++ cardano-cli address build --testnet-magic 1 --payment-verification-key-file /config/workspace/repo/donation/work/admin-utxo.json
+ admin_utxo_addr=addr_test1vzu6hnmgvageu2qyypy25yfqwg222tndt5eg3d6j68p8dqspgdxn7
+ cardano-cli query utxo --address addr_test1vzu6hnmgvageu2qyypy25yfqwg222tndt5eg3d6j68p8dqspgdxn7
+ cat /config/workspace/repo/donation/work/admin-utxo.json
+ jq -r 'to_entries[] | select(.value.value.lovelace > 5000000) | .key'
+ readarray admin_utxo_valid_array
++ tr -d '\n'
++ echo 316f6ce3844093c30f9ee6d54d9103369b65a0ef48df9d7777f65723e9944e43#2
+ admin_utxo_in=316f6ce3844093c30f9ee6d54d9103369b65a0ef48df9d7777f65723e9944e43#2
+ cat /config/workspace/repo/donation/work/admin-utxo.json
+ jq -r 'to_entries[] | select(.value.value.lovelace == 5000000) | .key'
+ readarray admin_utxo_valid_array
++ echo e06d00315b692ac604cbd2105019dc7d524d3e500d6a0b8c0258ce38699978d6#0
++ tr -d '\n'
+ admin_utxo_collateral_in=e06d00315b692ac604cbd2105019dc7d524d3e500d6a0b8c0258ce38699978d6#0
+ readarray black_list_utxo_array
+ cardano-cli query utxo --address addr_test1wr3m0vrrccxygtmexw7ur7vujjz5gqg4fjn0k2sjsjn04sd#0
+ cat /config/workspace/repo/donation/work/validator-utxo.json
+ jq -r 'to_entries[] | select(.value.inlineDatum | length > 0) | .key'
+ readarray order_utxo_in_array
+ order_array_length=1
+ order_utxo_in=
+ (( c=0 ))
+ (( c<1 ))
+ printf %s '79eaa22fc34832e998164f23b44ef87d00f4d70c6098df19198af526ae591dac#0
' '26b06ef773ac553c8216d87f5bd37e6cae2de5c82eccef03861cec66bad4b75b#0
' '6a8aececa2d95d1dd2637d612397a30709bfd99dc80766438435b33045c56fde#0
' '81adf7b562b8c4fe97eb21da67ea64c890b2b0d2f79f8c35c0f3850d9bab2f02#0
'
+ grep -q -x 'c953c437244a7c272d3fe7ecac7e16905a172c349155f825d9840d9f2182a03c#0
'
++ tr -d '\n'
++ echo c953c437244a7c272d3fe7ecac7e16905a172c349155f825d9840d9f2182a03c#0
+ order_utxo_in=c953c437244a7c272d3fe7ecac7e16905a172c349155f825d9840d9f2182a03c#0
+ break
+ '[' -z c953c437244a7c272d3fe7ecac7e16905a172c349155f825d9840d9f2182a03c#0 ']'
++ jq -r 'to_entries[]
| select(.key == "c953c437244a7c272d3fe7ecac7e16905a172c349155f825d9840d9f2182a03c#0")
| .value.inlineDatum' /config/workspace/repo/donation/work/validator-utxo.json
+ order_datum_in='{
  "list": [
    {
      "int": 132690000
    },
    {
      "bytes": "35323435323530333339303935"
    },
    {
      "bytes": "302e3337363831"
    }
  ]
}'
+ echo -n '{
```

```

"list": [
  {
    "int": 132690000
  },
  {
    "bytes": "35323435323530333339303935"
  },
  {
    "bytes": "302e3337363831"
  }
]
}'
++ jq -r '.list[0].int' /config/workspace/repo/donation/work/datum-in.json
+ order_ada=132690000
++ jq -r '.list[1].bytes' /config/workspace/repo/donation/work/datum-in.json
+ order_id_encoded=35323435323530333339303935
+ echo -n 35323435323530333339303935
++ python3 hexdump.py -r /config/workspace/repo/donation/work/order_id.encoded
+ order_id=5245250339095
++ jq -r '.list[2].bytes' /config/workspace/repo/donation/work/datum-in.json
+ ada_usd_price_encoded=302e3337363831
+ echo -n 302e3337363831
++ python3 hexdump.py -r /config/workspace/repo/donation/work/ada_usd_price.encoded
+ ada_usd_price=0.37681
+ merchant_split=80
+ donor_split=20
+ donor_ada_amount=26538000
+ (( 26538000 < 1000000 ))
+ donor_ada=26538000
+ merchant_ada=106152000
++ date +%Y/%m/%d-%H:%M:%S
+ now=2023/01/24-01:15:52
++ jq -r .order.total_price
++ curl -H 'X-Shopify-Access-Token: shpat_XXXXXXX' https://test-payment-poc.myshopify.com//adr
% Total      % Received % Xferd  Average Speed   Time     Time     Time  Current
                                         Dload  Upload   Total  Spent   Left  Speed
100  5809      0  5809      0      0  17559       0  --:--:--  --:--:-- 17603
+ shopify_order_amount=50.00
++ python3 -c 'print(round((50.00 / 0.37681), 3))'
+ shopify_order_ada=132.693
++ python3 -c 'print(132.693 * 1000000)'
+ shopify_order_lovelace=132693000.0000001
+ shopify_order_ada_truncated=132693000
+ difference=-3000
++ echo 3000
+ difference_abs=3000
+ (( 3000 > 10000 ))
+ metadata='{
"1" : {
  "order_detail" : {
    "date" : "2023/01/24-01:15:52",
    "donation_ada_amount" : "26538000",
    "donation_split" : "20%",
    "order_id" : "35323435323530333339303935",
    "order_ada" : "132690000",
    "order_lovelace" : "132693000.0000001",
    "order_usd_price" : "302e3337363831"
  }
}
'

```

```
"order_id" : "5245250339095",
"order_ada_amount" : "132690000",
"ada_usd_price" : "0.37681",
"version" : "0.1"
}
}'
+ echo '{' '"1"' : '{' '"order_detail"' : '{' '"date"' : '"2023/01/24-01:15:52",'
+ metadata_file_path=/config/workspace/repo/donation/scripts/cardano-cli/preprod/data/donation
+ cardano-cli transaction build --babbage-era --cardano-mode --testnet-magic 1 --change-addre
Command failed: transaction build  Error: The following scripts have execution failures:
the script for transaction input 1 (in the order of the TxIds) failed with:
The Plutus script evaluation failed: An error has occurred: User error:
The machine terminated because of an error, either from a built-in function or from an explicit
Script debugging logs: DN1: true
DN2: false
```

```
abc@material-baseball-zwzft4-0:~/workspace/repo/donation/scripts/cardano-clis$
```

Incorrect donor and merchant addresses

```
abc@material-baseball-zwzft4-0:~/workspace/repo/donation/scripts/cardano-cli$ ./spend-tx.sh p
+ '[' -z preprod ']'
+ ENV=preprod
++ readlink -f ./spend-tx.sh
++ dirname /config/workspace/repo/donation/scripts/cardano-cli/spend-tx.sh
+ MY_DIR=/config/workspace/repo/donation/scripts/cardano-cli
+ source /config/workspace/repo/donation/scripts/cardano-cli/preprod/global-export-variables.s
++ set -e
++ set -o pipefail
++ export BASE=/config/workspace/repo/donation
++ BASE=/config/workspace/repo/donation
++ export WORK=/config/workspace/repo/donation/work
++ WORK=/config/workspace/repo/donation/work
++ export TESTNET_MAGIC=1
++ TESTNET_MAGIC=1
++ export ADMIN_VKEY=/config/workspace/repo/.keys/admin/key.vkey
++ ADMIN_VKEY=/config/workspace/repo/.keys/admin/key.vkey
++ export ADMIN_SKEY=/config/workspace/repo/.keys/admin/key.skey
++ ADMIN_SKEY=/config/workspace/repo/.keys/admin/key.skey
++ export ADMIN_PKH=/config/workspace/repo/.keys/admin/key.pkh
++ ADMIN_PKH=/config/workspace/repo/.keys/admin/key.pkh
++ export MIN_ADA_OUTPUT_TX=2000000
++ MIN_ADA_OUTPUT_TX=2000000
++ export MIN_ADA_OUTPUT_TX_REF=25000000
++ MIN_ADA_OUTPUT_TX_REF=25000000
++ export COLLATERAL_ADA=5000000
++ COLLATERAL_ADA=5000000
++ export DONOR_ADDR=addr_test1vq7k907l7e59t52skm8e0ezsnmmc7h4xy30kg2klwc5n8rqug2pds
++ DONOR_ADDR=addr_test1vq7k907l7e59t52skm8e0ezsnmmc7h4xy30kg2klwc5n8rqug2pds
++ export MERCHANT_ADDR=addr_test1vzetpfww4aaunft0ucvcrxugj8nt4lhltstya0rx0uh48cqghjfg
++ MERCHANT_ADDR=addr_test1vzetpfww4aaunft0ucvcrxugj8nt4lhltstya0rx0uh48cqghjfg
++ export REFUND_ADDR=addr_test1vzs24vjh8salzqt5pahgvr34ewfwagxaxr5pz7eswugzn2gmw4f5w
++ REFUND_ADDR=addr_test1vzs24vjh8salzqt5pahgvr34ewfwagxaxr5pz7eswugzn2gmw4f5w
++ export VAL_REF_SCRIPT=d6c4a585ffbbdcc371a3472e829133643c9dfa4f1b61a4ccb8e75fd4480c22ce#0
++ VAL_REF_SCRIPT=d6c4a585ffbbdcc371a3472e829133643c9dfa4f1b61a4ccb8e75fd4480c22ce#0
++ export SPLIT=90
++ SPLIT=90
++ export MIN_ADA_DONATION=1000000
++ MIN_ADA_DONATION=1000000
+ '[' preprod == mainnet ']'
+ network='--testnet-magic 1'
+ mkdir -p /config/workspace/repo/donation/work
+ mkdir -p /config/workspace/repo/donation/work-backup
+ rm -f /config/workspace/repo/donation/work/ada_usd_price.encoded /config/workspace/repo/donat
+ rm -f '/config/workspace/repo/donation/work-backup/*'
+ cardano-cli query protocol-parameters --testnet-magic 1 --out-file /config/workspace/repo/donat
+ validator_script=/config/workspace/repo/donation/scripts/cardano-cli/preprod/data/donation.i
++ cardano-cli address build --payment-script-file /config/workspace/repo/donation/scripts/c
+ validator_script_addr=addr_test1wr3m0vrrccxygtmexw7ur7vujjz5gqg4fjn0k2sjsjn04sdckk0k
+ redeemer_file_path=/config/workspace/repo/donation/scripts/cardano-cli/preprod/data/redeeme
++ cat /config/workspace/repo/.keys/admin/key.pkh
+ admin_pkh=b9abcf6867519e28042048aa11207214a52e6d5d3288b752d1c27682
```

```

++ cardano-cli address build --testnet-magic 1 --payment-verification-key-file /config/workspace/repo/donation/work/admin-utxo.json
+ admin_utxo_addr=addr_test1vzu6hnmgvageu2qyypy25yfqwg222tndt5eg3d6j68p8dqspgdxn7
+ cardano-cli query utxo --address addr_test1vzu6hnmgvageu2qyypy25yfqwg222tndt5eg3d6j68p8dqspgdxn7
+ cat /config/workspace/repo/donation/work/admin-utxo.json
+ jq -r 'to_entries[] | select(.value.value.lovelace > 5000000) | .key'
+ readarray admin_utxo_valid_array
++ echo 316f6ce3844093c30f9ee6d54d9103369b65a0ef48df9d7777f65723e9944e43#2
++ tr -d '\n'
+ admin_utxo_in=316f6ce3844093c30f9ee6d54d9103369b65a0ef48df9d7777f65723e9944e43#2
+ cat /config/workspace/repo/donation/work/admin-utxo.json
+ jq -r 'to_entries[] | select(.value.value.lovelace == 5000000) | .key'
+ readarray admin_utxo_valid_array
++ echo e06d00315b692ac604cbd2105019dc7d524d3e500d6a0b8c0258ce38699978d6#0
++ tr -d '\n'
+ admin_utxo_collateral_in=e06d00315b692ac604cbd2105019dc7d524d3e500d6a0b8c0258ce38699978d6#0
+ readarray black_list_utxo_array
+ cardano-cli query utxo --address addr_test1wr3m0vrrccxygtmexw7ur7vujjz5gqg4fjn0k2sjsjn04sd0
+ cat /config/workspace/repo/donation/work/validator-utxo.json
+ jq -r 'to_entries[] | select(.value.inlineDatum | length > 0) | .key'
+ readarray order_utxo_in_array
+ order_array_length=1
+ order_utxo_in=
+ (( c=0 ))
+ (( c<1 ))
+ printf %s '79eaa22fc34832e998164f23b44ef87d00f4d70c6098df19198af526ae591dac#0
' '26b06ef773ac553c8216d87f5bd37e6cae2de5c82eccef03861cec66bad4b75b#0
' '6a8aececa2d95d1dd2637d612397a30709bfd99dc80766438435b33045c56fde#0
' '81adf7b562b8c4fe97eb21da67ea64c890b2b0d2f79f8c35c0f3850d9bab2f02#0
'
+ grep -q -x 'c953c437244a7c272d3fe7ecac7e16905a172c349155f825d9840d9f2182a03c#0
'
++ echo c953c437244a7c272d3fe7ecac7e16905a172c349155f825d9840d9f2182a03c#0
++ tr -d '\n'
+ order_utxo_in=c953c437244a7c272d3fe7ecac7e16905a172c349155f825d9840d9f2182a03c#0
+ break
+ '[' -z c953c437244a7c272d3fe7ecac7e16905a172c349155f825d9840d9f2182a03c#0 ']'
++ jq -r 'to_entries[]
| select(.key == "c953c437244a7c272d3fe7ecac7e16905a172c349155f825d9840d9f2182a03c#0")
| .value.inlineDatum' /config/workspace/repo/donation/work/validator-utxo.json
+ order_datum_in='{
  "list": [
    {
      "int": 132690000
    },
    {
      "bytes": "35323435323530333339303935"
    },
    {
      "bytes": "302e3337363831"
    }
  ]
}'
+ echo -n '{
```

```

"list": [
  {
    "int": 132690000
  },
  {
    "bytes": "35323435323530333339303935"
  },
  {
    "bytes": "302e3337363831"
  }
]
}'
++ jq -r '.list[0].int' /config/workspace/repo/donation/work/datum-in.json
+ order_ada=132690000
++ jq -r '.list[1].bytes' /config/workspace/repo/donation/work/datum-in.json
+ order_id_encoded=35323435323530333339303935
+ echo -n 35323435323530333339303935
++ python3 hexdump.py -r /config/workspace/repo/donation/work/order_id.encoded
+ order_id=5245250339095
++ jq -r '.list[2].bytes' /config/workspace/repo/donation/work/datum-in.json
+ ada_usd_price_encoded=302e3337363831
+ echo -n 302e3337363831
++ python3 hexdump.py -r /config/workspace/repo/donation/work/ada_usd_price.encoded
+ ada_usd_price=0.37681
+ merchant_split=90
+ donor_split=10
+ donor_ada_amount=13269000
+ (( 13269000 < 1000000 ))
+ donor_ada=13269000
+ merchant_ada=119421000
++ date +%Y/%m/%d-%H:%M:%S
+ now=2023/01/24-01:23:00
++ curl -H 'X-Shopify-Access-Token: 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' https://test-paym...
++ jq -r .order.total_price
% Total    % Received % Xferd  Average Speed   Time     Time      Time  Current
                                         Dload  Upload   Total  Spent   Left  Speed
100  5809     0  5809     0      0  17994       0 --:--:-- --:--:-- --:--:-- 18040
+ shopify_order_amount=50.00
++ python3 -c 'print(round((50.00 / 0.37681), 3))'
+ shopify_order_ada=132.693
++ python3 -c 'print(132.693 * 1000000)'
+ shopify_order_lovelace=132693000.0000001
+ shopify_order_ada_truncated=132693000
+ difference=-3000
++ echo 3000
+ difference_abs=3000
+ (( 3000 > 10000 ))
+ metadata='{
"1" : {
  "order_detail" : {
    "date" : "2023/01/24-01:23:00",
    "donation_ada_amount" : "13269000",
    "donation_split" : "10%",
}
}
}

```

```
"order_id" : "5245250339095",
"order_ada_amount" : "132690000",
"ada_usd_price" : "0.37681",
"version" : "0.1"
}
}'
+ echo '{' '"1"' : '{' '"order_detail"' : '{' '"date"' : '"2023/01/24-01:23:00",'
+ metadata_file_path=/config/workspace/repo/donation/scripts/cardano-cli/preprod/data/donation
+ cardano-cli transaction build --babbage-era --cardano-mode --testnet-magic 1 --change-addre
Command failed: transaction build  Error: The following scripts have execution failures:
the script for transaction input 1 (in the order of the TxIds) failed with:
The Plutus script evaluation failed: An error has occurred: User error:
The machine terminated because of an error, either from a built-in function or from an explicit
Script debugging logs: DN1: true
DN2: false
```

Events

Positive Test Cases

The screenshot shows a Google Chrome browser window displaying the Cardano Explorer.io transaction details page. The transaction hash is `c1ea6bf1114044bccd42ca1085098d81d7717a412781d202e2c141c146d809e`, and it was processed on Jan 24 07:08.

Transaction Summary:

- Date: 1m25s ago
- Epoch: 47
- Block: 553,994
- Slot: 18,878,757 (epoch slot 216,357)
- Total Output: 935.74 A (USD \$345.8, ADA 0.01517)
- Fee: 0.17 A (USD \$0)
- Outputs: 2

Assurance: 2/8

Transaction Size: 0.29kB (0.29kB)
this tx 40% other txs in block 60%

Block Size (TX Count): 0.72kB (3)
available 99%

Minted by: [AVA] AVA - Testnet Pool

Content:

Time	Address	Value	USD Value	ADA Value
1m25s ago	# c1ea6bf111...d809e	Total	935.74A	
935.91A	addr_test1...pmr54	-132.89A	\$49	0.00215
803.02A	addr_test1...pmr54			
132.72A	addr_test1...57tdd			

Google Chrome ▾ Jan 24 07:11

TxPipe Console +

console.us1.demeter.run/smart-contract-book-e626a0/cardano-webhooks/critical-response-98gtmu/logs

demeter.run > Smart Contracts PREPROD L

```
[2023-01-24T12:04:50Z DEBUG pallas_miniprotocols::chainsync::agents] tip was reached
[2023-01-24T12:04:56Z DEBUG pallas_multiplexer::bearers] parsed inbound msg, protocol id: 5, ts: 2166490815, payload length: 916
[2023-01-24T12:04:56Z DEBUG pallas_miniprotocols::chainsync::agents] rolling forward
[2023-01-24T12:04:56Z INFO oura::sources::n2c::run] rolling forward to point (18878696, e7ae20484e084528210698c9b997e68d81e6aa39daa745ac987fd)
[2023-01-24T12:04:56Z DEBUG oura::sources::n2c::run] found 1 points with required min depth
[2023-01-24T12:04:56Z INFO oura::sources::n2c::run] rollback buffer state, size: 0, oldest: None, latest: None
[2023-01-24T12:04:56Z DEBUG pallas_multiplexer::bearers] parsed inbound msg, protocol id: 5, ts: 2166495338, payload length: 2
[2023-01-24T12:04:56Z DEBUG pallas_miniprotocols::chainsync::agents] reached tip, await reply
[2023-01-24T12:04:56Z DEBUG pallas_miniprotocols::chainsync::agents] tip was reached
[2023-01-24T12:05:57Z DEBUG pallas_multiplexer::bearers] parsed inbound msg, protocol id: 5, ts: 2227692972, payload length: 1651
[2023-01-24T12:05:57Z DEBUG pallas_miniprotocols::chainsync::agents] rolling forward
[2023-01-24T12:05:57Z INFO oura::sources::n2c::run] rolling forward to point (18878757, 8ff33c225f644f61c6133304e8cc09bb6c0818a8f1105372bae29ef)
[2023-01-24T12:05:57Z DEBUG oura::sources::n2c::run] found 1 points with required min depth
[2023-01-24T12:05:57Z INFO oura::sources::n2c::run] rollback buffer state, size: 0, oldest: None, latest: None
[2023-01-24T12:05:57Z DEBUG reqwest::connect] starting new connection: https://3000-material-baseball-zwzft4.us1.demeter.run/
[2023-01-24T12:05:57Z DEBUG pallas_multiplexer::bearers] parsed inbound msg, protocol id: 5, ts: 2227693844, payload length: 2
[2023-01-24T12:05:57Z DEBUG pallas_miniprotocols::chainsync::agents] reached tip, await reply
[2023-01-24T12:05:57Z DEBUG pallas_miniprotocols::chainsync::agents] tip was reached
[2023-01-24T12:05:57Z DEBUG hyper::client::connect::dns] resolving host="3000-material-baseball-zwzft4.us1.demeter.run"
[2023-01-24T12:05:57Z DEBUG hyper::client::connect::http] connecting to 34.213.123.117:443
[2023-01-24T12:05:57Z DEBUG hyper::client::connect::http] connected to 34.213.123.117:443
[2023-01-24T12:05:57Z DEBUG hyper::proto::h1::io] flushed 828 bytes
[2023-01-24T12:06:01Z DEBUG hyper::proto::h1::io] parsed 8 headers
[2023-01-24T12:06:01Z DEBUG hyper::proto::h1::conn] incoming body is content-length (82 bytes)
[2023-01-24T12:06:01Z DEBUG hyper::proto::h1::conn] incoming body completed
[2023-01-24T12:06:01Z DEBUG hyper::client::pool] pooling idle connection for ("https", 3000-material-baseball-zwzft4.us1.demeter.run)
[2023-01-24T12:07:07Z DEBUG pallas_miniprotocols::chainsync::agents] rolling forward
[2023-01-24T12:07:07Z INFO oura::sources::n2c::run] rolling forward to point (18878827, eb41f02aa30577d4a463d85bbb4a7e4cdeacd73216fb70a24640a35)
[2023-01-24T12:07:07Z DEBUG oura::sources::n2c::run] found 1 points with required min depth
[2023-01-24T12:07:07Z INFO oura::sources::n2c::run] rollback buffer state, size: 0, oldest: None, latest: None
[2023-01-24T12:07:07Z DEBUG pallas_multiplexer::bearers] parsed inbound msg, protocol id: 5, ts: 2297689902, payload length: 2
[2023-01-24T12:07:07Z DEBUG pallas_miniprotocols::chainsync::agents] reached tip, await reply
[2023-01-24T12:07:07Z DEBUG pallas_miniprotocols::chainsync::agents] tip was reached
```

```

+ '[' -z 0 ']'
+ ENV=preprod
+ txHash=c1ea6bf11141044bccd42ca1085098d81d7717a412781d202e2c141c146d809e
+ txIdx=0
+ event_utxo=c1ea6bf11141044bccd42ca1085098d81d7717a412781d202e2c141c146d809e#0
+++ readlink -f ./spend-tx.sh
++ dirname /config/workspace/repo/events/scripts/cardano-cli/spend-tx.sh
+ MY_DIR=/config/workspace/repo/events/scripts/cardano-cli
+ source /config/workspace/repo/events/scripts/cardano-cli/preprod/global-export-variables.sh
++ set -e
++ set -o pipefail
++ export BASE=/config/workspace/repo/events
++ BASE=/config/workspace/repo/events
++ export WORK=/config/workspace/repo/events/work
++ WORK=/config/workspace/repo/events/work
++ export TESTNET_MAGIC=1
++ TESTNET_MAGIC=1
++ export ADMIN_VKEY=/config/workspace/repo/.keys/admin/key.vkey
++ ADMIN_VKEY=/config/workspace/repo/.keys/admin/key.vkey
++ export ADMIN_SKEY=/config/workspace/repo/.keys/admin/key.skey
++ ADMIN_SKEY=/config/workspace/repo/.keys/admin/key.skey
++ export ADMIN_PKH=/config/workspace/repo/.keys/admin/key.pkh
++ ADMIN_PKH=/config/workspace/repo/.keys/admin/key.pkh
++ export MIN_ADA_OUTPUT_TX=2000000
++ MIN_ADA_OUTPUT_TX=2000000
++ export MIN_ADA_OUTPUT_TX_REF=25000000
++ MIN_ADA_OUTPUT_TX_REF=25000000
++ export COLLATERAL_ADA=5000000
++ COLLATERAL_ADA=5000000
++ export MERCHANT_ADDR=addr_test1vq7k907l7e59t52skm8e0ezsnmmc7h4xy30kg2klwc5n8rqug2pds
++ MERCHANT_ADDR=addr_test1vq7k907l7e59t52skm8e0ezsnmmc7h4xy30kg2klwc5n8rqug2pds
++ export DONOR_ADDR=addr_test1vzetpfww4aaunft0ucvcrxugj8nt4lhltksktya0rx0uh48cqghjfg
++ DONOR_ADDR=addr_test1vzetpfww4aaunft0ucvcrxugj8nt4lhltksktya0rx0uh48cqghjfg
++ export REFUND_ADDR=addr_test1vzs24vjh8salzqt5pahgvr34ewfwagxaxr5pz7eswugzn2gmw4f5w
++ REFUND_ADDR=addr_test1vzs24vjh8salzqt5pahgvr34ewfwagxaxr5pz7eswugzn2gmw4f5w
++ export VAL_REF_SCRIPT=6af1c7ea85bd3222be2e31e5fcd664318b0897b2ab5b68a4db667508aa21a5f8#0
++ VAL_REF_SCRIPT=6af1c7ea85bd3222be2e31e5fcd664318b0897b2ab5b68a4db667508aa21a5f8#0
++ export SPLIT=90
++ SPLIT=90
++ export MIN_ADA_DONATION=1000000
++ MIN_ADA_DONATION=1000000
+ '[' preprod == mainnet ']'
+ network='--testnet-magic 1'
+ mkdir -p /config/workspace/repo/events/work
+ mkdir -p /config/workspace/repo/events/work-backup
+ rm -f /config/workspace/repo/events/work/ada_usd_price.encoded /config/workspace/repo/events/work/ada_usd_price.encoded
+ rm -f '/config/workspace/repo/events/work-backup/*'
+ cardano-cli query protocol-parameters --testnet-magic 1 --out-file /config/workspace/repo/events/validator_script.protocol-parameters
+ validator_script=/config/workspace/repo/events/scripts/cardano-cli/preprod/data/donation.plutus
++ cardano-cli address build --payment-script-file /config/workspace/repo/events/scripts/cardano-cli/preprod/data/donation.plutus
+ validator_script_addr=addr_test1wprnf503jfajvzycwnrt8vmfepsdg5qcnafps3p4yc37mesc57tdd
+ redeemer_file_path=/config/workspace/repo/events/scripts/cardano-cli/preprod/data/redeemer-data

```

```

++ cat /config/workspace/repo/.keys/admin/key.pkh
+ admin_pkh=b9abcf6867519e28042048aa11207214a52e6d5d3288b752d1c27682
++ cardano-cli address build --testnet-magic 1 --payment-verification-key-file /config/workspace/repo/.keys/admin/key.pkh
+ admin_utxo_addr=addr_test1vzu6hnmgvageu2qyypy25yfqwg222tndt5eg3d6j68p8dqspgdxn7
+ cardano-cli query utxo --address addr_test1vzu6hnmgvageu2qyypy25yfqwg222tndt5eg3d6j68p8dqspgdxn7
+ cat /config/workspace/repo/events/work/admin-utxo.json
+ jq -r 'to_entries[] | select(.value.value.lovelace > 5000000) | .key'
+ readarray admin_utxo_valid_array
++ echo 6af1c7ea85bd3222be2e31e5fcd664318b0897b2ab5b68a4db667508aa21a5f8#1
++ tr -d '\n'
+ admin_utxo_in=6af1c7ea85bd3222be2e31e5fcd664318b0897b2ab5b68a4db667508aa21a5f8#1
+ cat /config/workspace/repo/events/work/admin-utxo.json
+ jq -r 'to_entries[] | select(.value.value.lovelace == 5000000) | .key'
+ readarray admin_utxo_valid_array
++ echo e06d00315b692ac604cbd2105019dc7d524d3e500d6a0b8c0258ce38699978d6#0
++ tr -d '\n'
+ admin_utxo_collateral_in=e06d00315b692ac604cbd2105019dc7d524d3e500d6a0b8c0258ce38699978d6#0
+ readarray black_list_utxo_array
+ cardano-cli query utxo --tx-in c1ea6bf11141044bccd42ca1085098d81d7717a412781d202e2c141c146d#0
++ jq -r '.c1ea6bf11141044bccd42ca1085098d81d7717a412781d202e2c141c146d809e#0'.inlineDatum |
+ order_datum_in='{
  "list": [
    {
      "int": 132220000
    },
    {
      "bytes": "35323435343335343738323935"
    },
    {
      "bytes": "302e3337383136"
    }
  ]
}'
+ echo -n '{
  "list": [
    {
      "int": 132220000
    },
    {
      "bytes": "35323435343335343738323935"
    },
    {
      "bytes": "302e3337383136"
    }
  ]
}'
++ jq -r '.list[0].int' /config/workspace/repo/events/work/datum-in.json
+ order_ada=132220000
++ jq -r '.list[1].bytes' /config/workspace/repo/events/work/datum-in.json
+ order_id_encoded=35323435343335343738323935
+ echo -n 35323435343335343738323935
++ python3 hexdump.py -r /config/workspace/repo/events/work/order_id.encoded
+ order_id=5245435478295

```

```

++ jq -r '.list[2].bytes' /config/workspace/repo/events/work/datum-in.json
+ ada_usd_price_encoded=302e3337383136
+ echo -n 302e3337383136
++ python3 hexdump.py -r /config/workspace/repo/events/work/ada_usd_price.encoded
+ ada_usd_price=0.37816
+ merchant_split=90
+ donor_split=10
+ donor_ada_amount=13222000
+ (( 13222000 < 1000000 ))
+ donor_ada=13222000
+ merchant_ada=118998000
++ date +%Y/%m/%d-%H:%M:%S
+ now=2023/01/24-12:05:59
++ curl -H 'X-Shopify-Access-Token: shpat_XXX' https://test-payment-poc.myshopify.com//admin/
++ jq -r .order.total_price
      % Total      % Received % Xferd  Average Speed   Time     Time     Time  Current
                                         Dload  Upload   Total  Spent   Left  Speed
100  5939      0  5939      0       0  6055      0 --:--:-- --:--:-- --:--:--  6054
+ shopify_order_amount=50.00
++ python3 -c 'print(round((50.00 / 0.37816), 3))'
+ shopify_order_ada=132.219
++ python3 -c 'print(132.219 * 1000000)'
+ shopify_order_lovelace=132219000.0
+ shopify_order_ada_truncated=132219000
+ difference=1000
++ echo 1000
+ difference_abs=1000
+ (( 1000 > 10000 ))
+ metadata='{
  "1" : {
    "order_detail" : {
      "date" : "2023/01/24-12:05:59",
      "donation_ada_amount" : "13222000",
      "donation_split" : "10%",
      "order_id" : "5245435478295",
      "order_ada_amount" : "132220000",
      "ada_usd_price" : "0.37816",
      "version" : "0.1"
    }
  }
}'
+ echo '{' '"1"' : '{' '"order_detail"' : '{' '"date"' : '"2023/01/24-12:05:59",' '"donation_
+ metadata_file_path=/config/workspace/repo/events/scripts/cardano-cli/preprod/data/donation-
+ cardano-cli transaction build --babbage-era --cardano-mode --testnet-magic 1 --change-addres:
Estimated transaction fee: Lovelace 231798
+ echo 'tx has been built'
+ cardano-cli transaction sign --tx-body-file /config/workspace/repo/events/work/spend-tx-alonzo
tx has been built
+ echo 'tx has been signed'
+ echo 'Submit the tx with plutus script and wait 5 seconds...'
tx has been signed
Submit the tx with plutus script and wait 5 seconds...
+ cardano-cli transaction submit --tx-file /config/workspace/repo/events/work/spend-tx-alonzo

```

Transaction successfully submitted.

```
+ curl -s -S -d '{"order": {"id": 5245435478295, "tags": "PAID IN FULL"}}' -X PUT https://test-pay
```

^C

Address Detail > TXs

Address: addr_test1wprnf503jfajvzycwnrt8vmfepsdg5qcnakps3p4yc37mesc57tdd

Date	Hash	Total	Fees	Outputs
7m49s ago	# 6125616922_bfb13	407.25A	-132.72A (\$ 49)	407.25A
8m59s ago	# clea6bf11l_d809e	935.74A	+132.72A (\$ 49)	935.74A

Metadata Transaction 61256169224745e52c1d13e7149aacff9fd9e3ef89629ac67ceec3331fcfb13/metadata#data

Date	Epoch	Block	Slot	Total Output	Fee	Outputs
9m31s ago	47	553,995	18,878,827 (epoch slot 216,427)	407.25A (\$ 150.5)	0.23A (\$ 0.1)	3

Content

Label	Data
1	{ "order_detail": { "date": "2023/01/24-12:05:59", "version": "0.1", "order_id": "5245435478295", "ada_usd_price": "0.37816", "donation_split": "10%", "order_ada_amount": "132220000", "donation_ada_amount": "13222000" } }

Negative Test Cases

Sent a native token with Ada to smart contract address

```

+ '[' -z 0 ']'
+ ENV=preprod
+ txHash=488d43f86b43a03117328d9421e126a12cd7d74dce54ec85b2df9d10479dfbec
+ txIdx=0
+ event_utxo=488d43f86b43a03117328d9421e126a12cd7d74dce54ec85b2df9d10479dfbec#0
+++ readlink -f ./spend-tx.sh
++ dirname /config/workspace/repo/events/scripts/cardano-cli/spend-tx.sh
+ MY_DIR=/config/workspace/repo/events/scripts/cardano-cli
+ source /config/workspace/repo/events/scripts/cardano-cli/preprod/global-export-variables.sh
++ set -e
++ set -o pipefail
++ export BASE=/config/workspace/repo/events
++ BASE=/config/workspace/repo/events
++ export WORK=/config/workspace/repo/events/work
++ WORK=/config/workspace/repo/events/work
++ export TESTNET_MAGIC=1
++ TESTNET_MAGIC=1
++ export ADMIN_VKEY=/config/workspace/repo/.keys/admin/key.vkey
++ ADMIN_VKEY=/config/workspace/repo/.keys/admin/key.vkey
++ export ADMIN_SKEY=/config/workspace/repo/.keys/admin/key.skey
++ ADMIN_SKEY=/config/workspace/repo/.keys/admin/key.skey
++ export ADMIN_PKH=/config/workspace/repo/.keys/admin/key.pkh
++ ADMIN_PKH=/config/workspace/repo/.keys/admin/key.pkh
++ export MIN_ADA_OUTPUT_TX=2000000
++ MIN_ADA_OUTPUT_TX=2000000
++ export MIN_ADA_OUTPUT_TX_REF=25000000
++ MIN_ADA_OUTPUT_TX_REF=25000000
++ export COLLATERAL_ADA=5000000
++ COLLATERAL_ADA=5000000
++ export MERCHANT_ADDR=addr_test1vq7k907l7e59t52skm8e0ezsnmmc7h4xy30kg2klwc5n8rqug2pds
++ MERCHANT_ADDR=addr_test1vq7k907l7e59t52skm8e0ezsnmmc7h4xy30kg2klwc5n8rqug2pds
++ export DONOR_ADDR=addr_test1vzetpfww4aaunft0ucvcrxugj8nt4lhltksktya0rx0uh48cqghjfg
++ DONOR_ADDR=addr_test1vzetpfww4aaunft0ucvcrxugj8nt4lhltksktya0rx0uh48cqghjfg
++ export REFUND_ADDR=addr_test1vzs24vjh8salzqt5pahgvr34ewfwagxaxr5pz7eswugzn2gmw4f5w
++ REFUND_ADDR=addr_test1vzs24vjh8salzqt5pahgvr34ewfwagxaxr5pz7eswugzn2gmw4f5w
++ export VAL_REF_SCRIPT=6af1c7ea85bd3222be2e31e5fcd664318b0897b2ab5b68a4db667508aa21a5f8#0
++ VAL_REF_SCRIPT=6af1c7ea85bd3222be2e31e5fcd664318b0897b2ab5b68a4db667508aa21a5f8#0
++ export SPLIT=90
++ SPLIT=90
++ export MIN_ADA_DONATION=1000000
++ MIN_ADA_DONATION=1000000
+ '[' preprod == mainnet ']'
+ network='--testnet-magic 1'
+ mkdir -p /config/workspace/repo/events/work
+ mkdir -p /config/workspace/repo/events/work-backup
+ rm -f /config/workspace/repo/events/work/admin-utxo-collateral-valid.json /config/workspace/
+ rm -f '/config/workspace/repo/events/work-backup/*'
+ cardano-cli query protocol-parameters --testnet-magic 1 --out-file /config/workspace/repo/e
+ validator_script=/config/workspace/repo/events/scripts/cardano-cli/preprod/data/donation.pl
++ cardano-cli address build --payment-script-file /config/workspace/repo/events/scripts/card
+ validator_script_addr=addr_test1wprnf503jfajvzycwnrt8vmfepsdg5qcnafps3p4yc37mesc57tdd
+ redeemer_file_path=/config/workspace/repo/events/scripts/cardano-cli/preprod/data/redeemer-

```

```

++ cat /config/workspace/repo/.keys/admin/key.pkh
+ admin_pkh=b9abcf6867519e28042048aa11207214a52e6d5d3288b752d1c27682
++ cardano-cli address build --testnet-magic 1 --payment-verification-key-file /config/workspace/repo/.keys/admin/key.pkh
+ admin_utxo_addr=addr_test1vzu6hnmgvageu2qyypy25yfqwg222tndt5eg3d6j68p8dqspgdxn7
+ cardano-cli query utxo --address addr_test1vzu6hnmgvageu2qyypy25yfqwg222tndt5eg3d6j68p8dqspgdxn7
+ cat /config/workspace/repo/events/work/admin-utxo.json
+ jq -r 'to_entries[] | select(.value.value.lovelace > 5000000) | .key'
+ readarray admin_utxo_valid_array
++ echo 61256169224745e52c1d13e7149aacff9fd9e3ef89629ac67ceec3331fcfb13#2
++ tr -d '\n'
+ admin_utxo_in=61256169224745e52c1d13e7149aacff9fd9e3ef89629ac67ceec3331fcfb13#2
+ cat /config/workspace/repo/events/work/admin-utxo.json
+ jq -r 'to_entries[] | select(.value.value.lovelace == 5000000) | .key'
+ readarray admin_utxo_valid_array
++ echo e06d00315b692ac604cbd2105019dc7d524d3e500d6a0b8c0258ce38699978d6#0
++ tr -d '\n'
+ admin_utxo_collateral_in=e06d00315b692ac604cbd2105019dc7d524d3e500d6a0b8c0258ce38699978d6#0
+ readarray black_list_utxo_array
+ cardano-cli query utxo --tx-in 488d43f86b43a03117328d9421e126a12cd7d74dce54ec85b2df9d10479d#0
++ jq -r '.\"488d43f86b43a03117328d9421e126a12cd7d74dce54ec85b2df9d10479dfbec#0\".inlineDatum'
+ order_datum_in=null
+ echo -n null
++ jq -r '.list[0].int' /config/workspace/repo/events/work/datum-in.json
+ order_ada=null
++ jq -r '.list[1].bytes' /config/workspace/repo/events/work/datum-in.json
+ order_id_encoded=null
+ echo -n null
++ python3 hexdump.py -r /config/workspace/repo/events/work/order_id.encoded
Traceback (most recent call last):
  File "/config/workspace/repo/events/scripts/cardano-cli/hexdump.py", line 458, in <module>
    main()
  File "/config/workspace/repo/events/scripts/cardano-cli/hexdump.py", line 451, in main
    sys.stdout.buffer.write(restoredinstream.read()))
  File "/config/workspace/repo/events/scripts/cardano-cli/hexdump.py", line 278, in restore
    result += dehex(line)
  File "/config/workspace/repo/events/scripts/cardano-cli/hexdump.py", line 162, in dehex
    return bytes.fromhex(hextext)
ValueError: non-hexadecimal number found in fromhex() arg at position 0
+ order_id=

```

If Tx failure return 200, then events will continue to process and will not try to preserve order sequence.

```
[2023-01-24T13:18:18Z INFO oura::sources::n2c::run] rolling forward to point (18883098, c690)
[2023-01-24T13:18:18Z DEBUG oura::sources::n2c::run] found 1 points with required min depth
[2023-01-24T13:18:18Z DEBUG reqwest::connect] starting new connection: https://3000-material-
[2023-01-24T13:18:18Z DEBUG hyper::client::connect::dns] resolving host="3000-material-baseba
[2023-01-24T13:18:18Z INFO oura::sources::n2c::run] rollback buffer state, size: 0, oldest: I
[2023-01-24T13:18:18Z DEBUG pallas_multiplexer::bearers] parsed inbound msg, protocol id: 5,
[2023-01-24T13:18:18Z DEBUG pallas_miniprotocols::chainsync::agents] reached tip, await reply
[2023-01-24T13:18:18Z DEBUG pallas_miniprotocols::chainsync::agents] tip was reached
[2023-01-24T13:18:18Z DEBUG hyper::client::connect::http] connecting to 52.40.88.124:443
[2023-01-24T13:18:18Z DEBUG hyper::client::connect::http] connected to 52.40.88.124:443
[2023-01-24T13:18:18Z DEBUG hyper::proto::h1::io] flushed 967 bytes
[2023-01-24T13:18:19Z DEBUG hyper::proto::h1::io] parsed 8 headers
[2023-01-24T13:18:19Z DEBUG hyper::proto::h1::conn] incoming body is content-length (79 bytes)
[2023-01-24T13:18:19Z DEBUG hyper::proto::h1::conn] incoming body completed
[2023-01-24T13:18:19Z DEBUG hyper::client::pool] pooling idle connection for ("https", 3000-ma
[2023-01-24T13:18:55Z DEBUG pallas_multiplexer::bearers] parsed inbound msg, protocol id: 5,
[2023-01-24T13:18:55Z DEBUG pallas_miniprotocols::chainsync::agents] rolling forward
[2023-01-24T13:18:55Z INFO oura::sources::n2c::run] rolling forward to point (18883135, f049)
[2023-01-24T13:18:55Z DEBUG oura::sources::n2c::run] found 1 points with required min depth
[2023-01-24T13:18:55Z INFO oura::sources::n2c::run] rollback buffer state, size: 0, oldest: I
[2023-01-24T13:18:55Z DEBUG pallas_multiplexer::bearers] parsed inbound msg, protocol id: 5,
[2023-01-24T13:18:55Z DEBUG pallas_miniprotocols::chainsync::agents] reached tip, await reply
[2023-01-24T13:18:55Z DEBUG pallas_miniprotocols::chainsync::agents] tip was reached
```

The screenshot shows the Cexplorer.io web interface for the preprod environment. The left sidebar includes sections for CARDANO EXPLORER (Dashboard, Watchlist, Pools, Assets, Blocks, Transactions, dApps, Metadata, More), EDUCATION, and Articles. The main content area is titled "Address Detail > TXs" for the address `addr_test1wprnf503jfajvzycwnrt8vmfepsdg5qcnakps3p4yc37mesc57tdd`. It features three tables of transactions:

- Table 1 (Top):** Total 408.31A. Outputs include:
 - 275.56A → `addr_test1...gdxn7`
 - 132.98A → `addr_test1...57tdd`
 - 275.83A → `addr_test1...gdxn7`
 - 119.23A → `addr_test1...g2pds`
 - 13.25A → `addr_test1...ghjfg`
- Table 2 (Middle):** Total 402.87A. Outputs include:
 - 403.03A → `addr_test1...pmr54`
 - 269.89A → `addr_test1...pmr54`
 - 132.98A → `addr_test1...57tdd`
- Table 3 (Bottom):** Total 65.83A. Outputs include:
 - 66A → `addr_test1...prvx2`
 - 64.78A → `addr_test1...prvx2`
 - 105A → `addr_test1...57tdd`