

# Preprod Testing Helio v0.11.2 - 2023-01-26

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# Helios-Tx-Builder

## Positive Test Cases

The screenshot shows two windows: a browser window for the Helios Tx Builder and a Nami wallet application window.

**Browser Window (Left):**

- Address bar: 3000-venomous-decision-kd0ey1.us1.demeter.run
- Form fields:
  - Connect to your wallet: Nami
  - Wallet Balance In Lovelace: 1,615,981,719
  - Destination Wallet Address: addr\_test1qp5mqfukl7qwlsuvfmexrc93gkgtfx67styuhyst2jr89k3ktt4gsq9rg8fmjspum5r2682scfkri4pjme4zsvfq9hlece
  - Amount To Transfer: 55

**Nami Wallet Application Window (Right):**

- Header: Nami Admin3
- Text: This app requests a signature for:
- Amount: - 55.169901 tA
- Fee: 0.169901 tA fee
- Buttons: Details >, Cancel, Sign

Preprod

Google Chrome ▾ Jan 26 13:21

Helios Tx Builder x +

3000-venomous-decision-kd0ey1.us1.demeter.run

# Helios Tx Builder

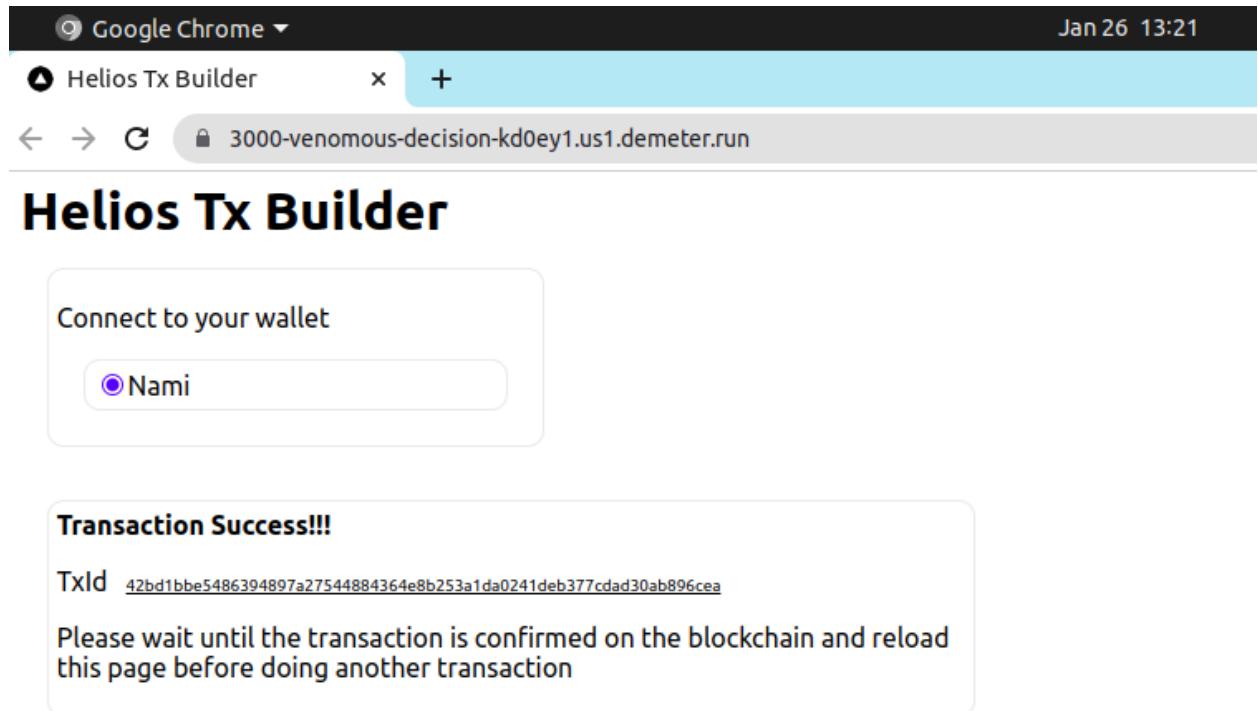
Connect to your wallet

Nami

**Transaction Success!!!**

TxId [42bd1bbe5486394897a27544884364e8b253a1da0241deb377cdad30ab896cea](#)

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



Jan 26 13:22

Explorer.io preprod Transaction 42bd1bbe54...96cea

preprod.explorer.io/tx/42bd1bbe5486394897a27544884364e8b253a1da0241deb377cdad30ab896cea

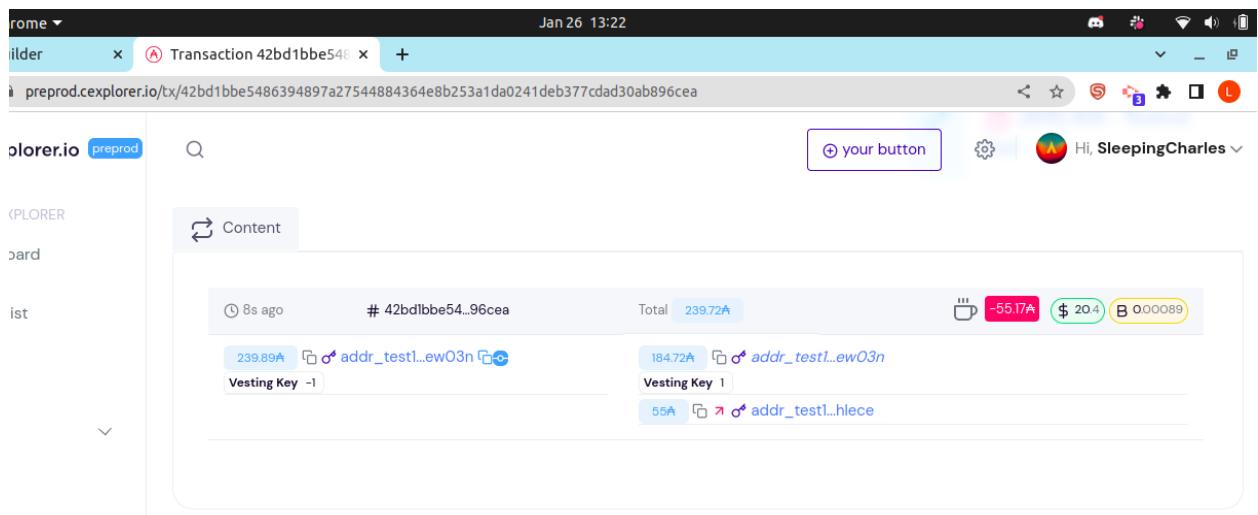
Content

8s ago # 42bd1bbe54...96cea Total 239.72

239.89 addr\_test1...ew03n addr\_test1...ew03n  
Vesting Key -1

184.72 addr\_test1...ew03n  
Vesting Key 1

55 addr\_test1...hlece



# NFT

## Positive Test Case

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

**Web Browser (Left):**

- Title: Helios Tx Builder
- URL: 3000-venomous-decision-kd0ey1.us1.demeter.run
- Header: Connect to your wallet (Nami selected)
- Section: Wallet Balance In Lovelace: 47,648,970
- Form fields:
  - Destination Wallet Address: addr\_test1qqq7ezyyp376dfgepe30vdacnc2h4kfn8rg5f260j3yj85kkpcv26nf553dpfa7hnef2t4h87vvca0nv23zfsxkesix0avu
  - NFT Token Name: Mad Dog
  - NFT Description: Crazy dog that loves treats
  - NFT Image: QmckPQPzthJjkS9GRSxdw2SzSinAwdDW34xDZd26MrV5S
- Buttons: Mint NFT

**Mobile Application (Right):**

- Title: Nami
- Header: 3000-venomous-decision-kd0ey1.us1.demeter.run
- Text: This app requests a signature for:
- Amount: - 2.245638 tADA
- Fee: 0.245638 tADA fee
- Buttons: Details >, Cancel, Sign
- Text: ⚡ Preprod

Google Chrome ▾

Helios Tx Builder

Jan 26 14:18

3000-venomous-decision-kd0ey1.us1.demeter.run

## Helios Tx Builder

Connect to your wallet

Nami

Wallet Balance In Lovelace 47,648,970

Destination Wallet Address  
addr\_test1qqq7ezyp376dfgepe30vdacnc2ht4kfn8rg5f260jg3y85kkpcv26nf553dpfa7hnef2tt4h87vvca0nv23zfsxeslx0avu

NFT Token Name  
Mad Dog

NFT Description  
Crazy dog that loves treats

NFT Image  
QmckPQPzthJjkS9GRSxdw2SzSinAwdDW34xDZd26MrV5S

Mint NFT

Nami

Details

Recipients

2 tA  
addr\_test1...xeslx0avu + 1 Asset

Metadata

```
{ "721": { "dad07b44e04624caf8e7eeb808f60a918fb535c": "Mad Dog": { "description": "Crazy dog that loves treats", "image": "QmckPQPzthJjkS9GRSxdw2SzSinAwdDW34xDZd26MrV5S", "name": "Mad Dog" } } }
```

Signing keys

Back

Google Chrome ▾ Jan 26 14:19

Helios Tx Builder x +

3000-venomous-decision-kd0ey1.us1.demeter.run

# Helios Tx Builder

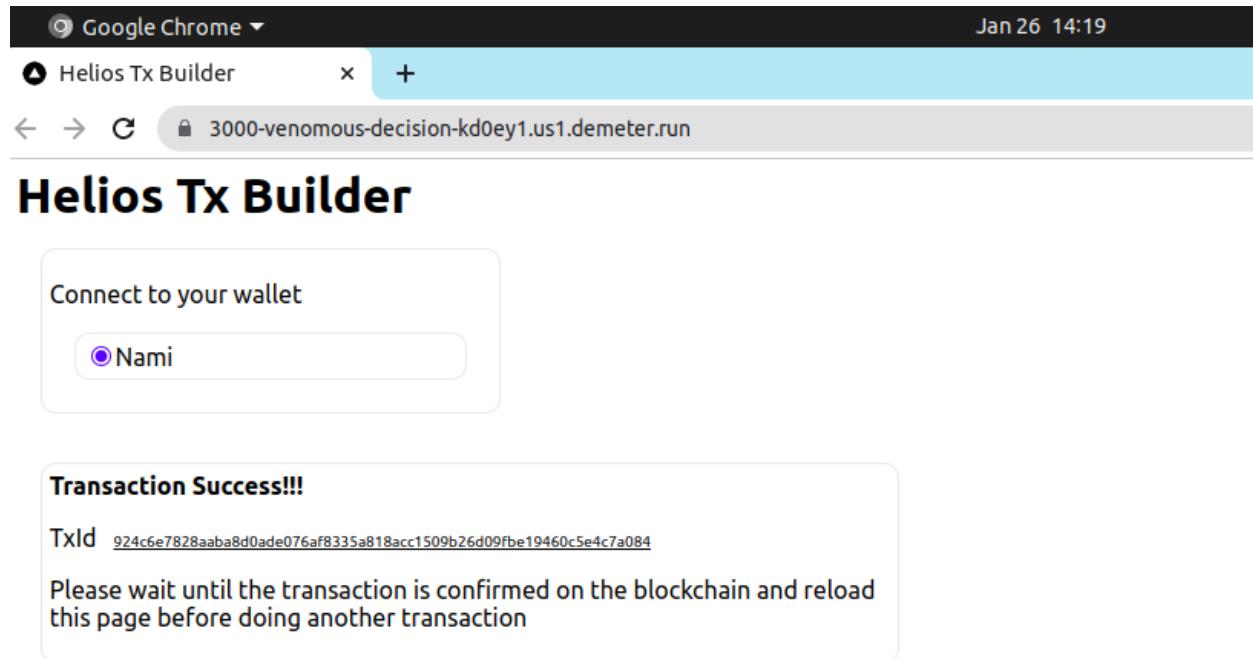
Connect to your wallet

Nami

**Transaction Success!!!**

TxId [924c6e7828aaba8d0ade076af8335a818acc1509b26d09fbe19460c5e4c7a084](#)

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



Google Chrome ▾ Jan 26 14:20

Helios Tx Builder x Transaction 924c6e7828aaba8d0ade076af8335a818acc1509b26d09fbe19460c5e4c7a084 +

C preprod.cexplorer.io/tx/924c6e7828aaba8d0ade076af8335a818acc1509b26d09fbe19460c5e4c7a084

**Cexplorer.io** preprod

ANO EXPLORER

Dashboard

Watchlist

Pools

Assets

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

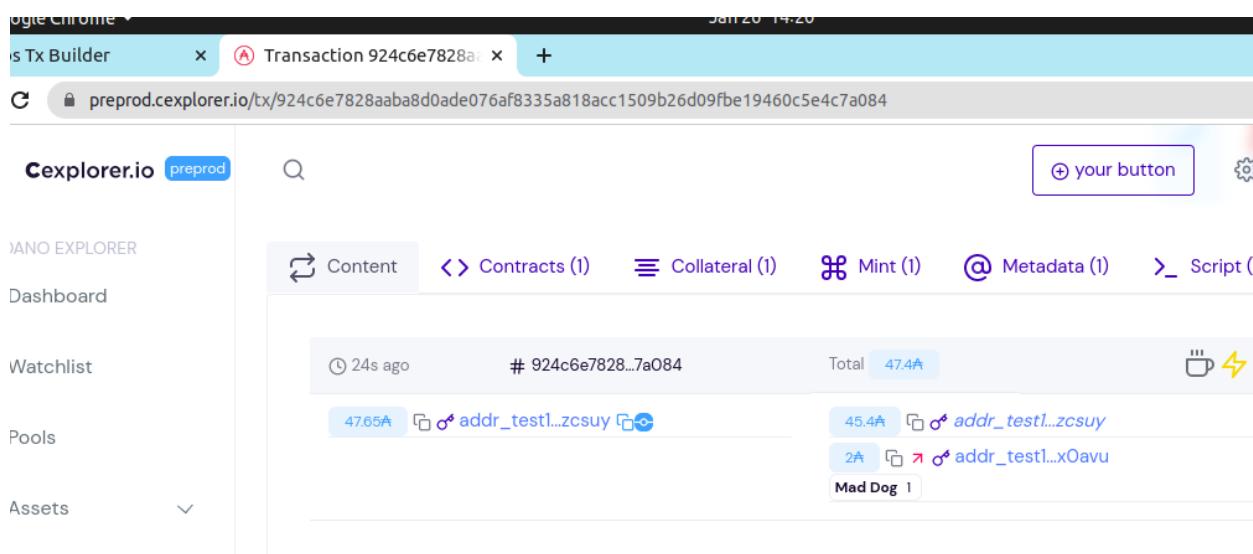
24s ago # 924c6e7828...7a084 Total 47.4 A

47.65 A ⚡ addr\_test1...zcsuy ⚡

45.4 A ⚡ addr\_test1...zcsuy ⚡

2 A ⚡ ↗ addr\_test1...xOavu ⚡

Mad Dog 1



le Chrome ▾ Jan 26 14:20

Tx Builder x NFT preview Mad Dog | C x +

preprod.cexplorer.io/asset/asset1mge38wzw9ukfq3y98uvh8tg15d9af4qr85slzz/preview#data

cexplorer.io preprod

EXPLORER

Board

list

Supply

Owner

actions

Preview TXs Mints Metadata Owners Embed

## ★ Mad Dog > NFT preview

Fingerprint: asset1mge38wzw9ukfq3y98uvh8tg15d9af4qr85slzz Policy ID:

Name (onchain) Mad Dog  
Encoded: 4d616420446f67

Onchain data (epoch snapshot)

Supply	1
Owner	stake_test...hmyr9

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"  
}
```

## Negative Test Case - More than 1 token is minted

The screenshot shows the Helios Tx Builder interface. On the left, there's a form for minting an NFT. It includes fields for Destination Wallet Address (a long hex string), NFT Token Name (Mad Dog), NFT Description (Crazy dog that loves treats), and NFT Image (a placeholder URL QmckPQPzthJkS9GRSxdlw2Sz5inAwdDW34xDzd26MV5S). Below the form is a button labeled "Mint NFT". At the bottom left, a red box contains the text "1 error". On the right, the browser's developer tools are open, specifically the Console tab. It shows a stack trace for an Uncaught (in promise) Error. The error message is: "Uncaught (in promise) Error: Trace: line helios.js?906d:1334 518 of IR RuntimeError on line 53 of IR: transaction rejected". The stack trace points to several functions: UplcAnon.call, UplcProgram.runInternal, UplcProgram.run, UplcProgram.profile, TxWitnesses.executeRedeemers, Tx.executeRedeemers, and Tx.finalize. The file helios.js is mentioned multiple times with line numbers 906d:1334, 8960:1, 11252:1, 11293:1, 11362:1, and 32357:1. The line number 0:1 is also present. The timestamp in the top right corner is Jan 26 20:00.

```
tx before final
▶ {body: {...}, witnesses: {...}, valid: false, metadata: {...}}
NFT:1 false
helios.js?906d:3333
✖ ▶ Uncaught (in promise) Error: Trace: line helios.js?906d:1334
518 of IR
RuntimeError on line 53 of IR: transaction rejected
    at RuntimeError.addTrace (helios.js?906d:1334:1)
    at RuntimeError.addTraceSite (helios.js?906d:1344:1)
    at UplcAnon.call (helios.js?906d:8960:1)
    at async UplcProgram.runInternal (helios.js?906d:11252:1)
    at async UplcProgram.run (helios.js?906d:11293:1)
    at async UplcProgram.profile (helios.js?906d:11362:1)
    at async TxWitnesses.executeRedeemers (helios.js?906d:3333
0:1)
        at async Tx.executeRedeemers (helios.js?906d:32172:1)
        at async Tx.finalize (helios.js?906d:32357:1)
        at async mintNFT (index.tsx?07ff:228:5)
>
```

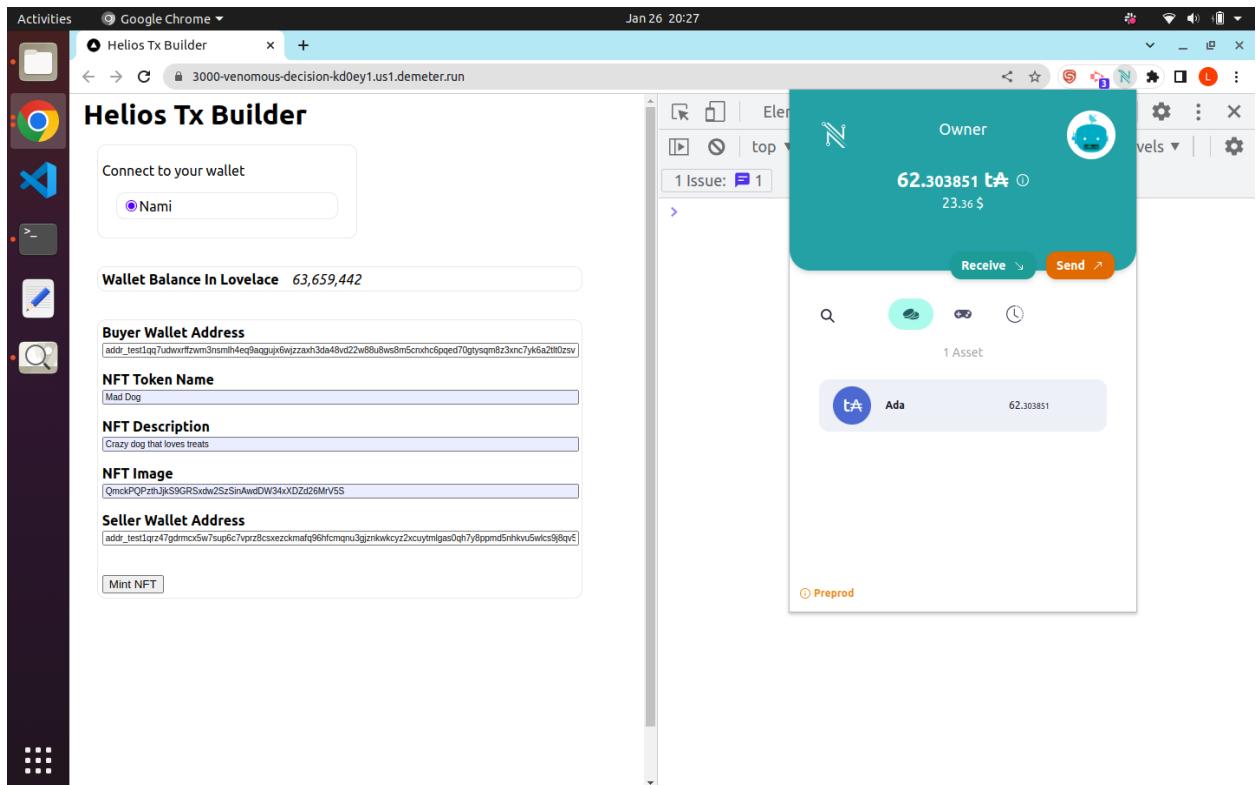
## Negative Test Case - UTXO not included as a input

The screenshot shows the Helios Tx Builder interface in a Google Chrome browser window. The URL is 3000-venomous-decision-kd0ey1.us1.demeter.run. The page title is "Helios Tx Builder". On the left, there's a "Connect to your wallet" section with a radio button selected for "Nami". Below it, the "Wallet Balance In Lovelace" is shown as 136,447,534. The main form fields include "Destination Wallet Address" (addr\_test1qnx4huy9td32ww9uweg74m8dzdgshnnf8qnmwzg4mgnqle3lgnrh0927t6p59tv647w0s08fbw9j0kwufe4sgp), "NFT Token Name" (Mad Dog), "NFT Description" (Crazy dog that loves treats), and "NFT Image" (QmckPQP2hjkS9GRSxdw2SzSinAwdDW34xDZd26Mv5S). A "Mint NFT" button is at the bottom of the form. A red box highlights the "1 error" message at the bottom left. On the right, the developer tools' "Console" tab is open, displaying a stack trace of errors:

```
tx before final index.tsx?07ff:225
▶ {body: {...}, witnesses: {...}, valid: false, metadata: {...}}
NFT:1 true helios.js?906d:33333
NFT2: false helios.js?906d:33333
✖ ▶ Uncaught (in promise) Error: Trace: line helios.js?906d:1334
518 of IR
RuntimeError on line 53 of IR: transaction rejected
at RuntimeError.addTrace (helios.js?906d:1334:1)
at RuntimeError.addTraceSite (helios.js?906d:1344:1)
at UpLCAnon.call (helios.js?906d:8960:1)
at async UpLCProgram.runInternal (helios.js?906d:11252:1)
at async UpLCProgram.run (helios.js?906d:11293:1)
at async UpLCProgram.profile (helios.js?906d:11362:1)
at async TxWitnesses.executeRedeemers (helios.js?906d:3333
0:1)
at async Tx.executeRedeemers (helios.js?906d:32172:1)
at async Tx.finalize (helios.js?906d:32357:1)
at async mintNFT (index.tsx?07ff:228:5)
```

# NFT Multisig

## Positive Test Cases



Google Chrome ▾

Helios Tx Builder

3000-venomous-decision-kd0ey1.us1.demeter.run

# Helios Tx Builder

Connect to your wallet

Nami

Wallet Balance In Lovelace 63,659,442

Buyer Sign NFT Transaction

Buyer Sign

Nami

Jan 26 20:28

3000-venomous-decision-kd0ey1.us1.demeter.run

This app requests a signature for:

+ 2 tA

+ 1 Asset

0.269886 tA fee

Details >

Cancel

Sign

Preprod

The image shows a screenshot of the Helios Tx Builder application in a web browser. On the left, the main interface displays a 'Connect to your wallet' section with 'Nami' selected, a 'Wallet Balance In Lovelace' of 63,659,442, and a 'Buyer Sign NFT Transaction' section with a 'Buyer Sign' button. On the right, a modal window titled 'Nami' shows a transaction request for the URL '3000-venomous-decision-kd0ey1.us1.demeter.run'. The modal details the transaction: adding 2 tokens (tA), 1 asset, and a fee of 0.269886 tA. It includes a 'Details >' link and two buttons at the bottom: 'Cancel' and 'Sign'. A small note at the bottom left of the modal says '(Preprod)'. The overall interface is clean with a light blue and white color scheme.

Google Chrome ▾

Jan 26 20:29

Helios Tx Builder

3000-venomous-decision-kd0ey1.us1.demeter.run

# Helios Tx Builder

Connect to your wallet

Nami

Wallet Balance In Lovelace 63,659,442

### Seller Sign And Submit NFT Transaction

Seller Sign and Submit Tx

Nami

Owner

3000-venomous-decision-kd0ey1.us1.demeter.run

This app requests a signature for:

- 2.269886 t₮

0.269886 t₮ fee

Details >

Cancel

Preprod

Sign

The image displays a web browser window for 'Helios Tx Builder' and a separate 'Nami' wallet sign-in overlay. The browser shows a wallet balance of 63,659,442 Lovelaces and a 'Seller Sign And Submit NFT Transaction' section with a 'Seller Sign and Submit Tx' button. The Nami overlay is titled 'Owner' and shows a transaction request for 2.269886 Lovelaces, with a 'Sign' button at the bottom. The 'Preprod' status is also visible on the Nami overlay.

Google Chrome ▾

Helios Tx Builder

3000-venomous-decision-kd0ey1.us1.demeter.run

# Helios Tx Builder

Connect to your wallet

Nami

Wallet Balance In Lovelace 63,659,442

Seller Sign And Submit NFT Transaction

Jan 26 20:30

Nami

## Details

### Recipients

addr\_test...0zsv3w66e 2 tA  
+ 1 Asset

### Metadata

```
{ "721": { "df337c45c4c660c58fc3f0538d3e84fa5ae9565": { "Mad Dog": { "description": "Crazy dog that loves", "image": "QmcckPQPzthJjk59GRSxdw2SzSi", "name": "Mad Dog" } } } }
```

### Signing keys

Google Chrome ▾ Jan 26 20:31

Helios Tx Builder x +

← → C 3000-venomous-decision-kd0ey1.us1.demeter.run

# Helios Tx Builder

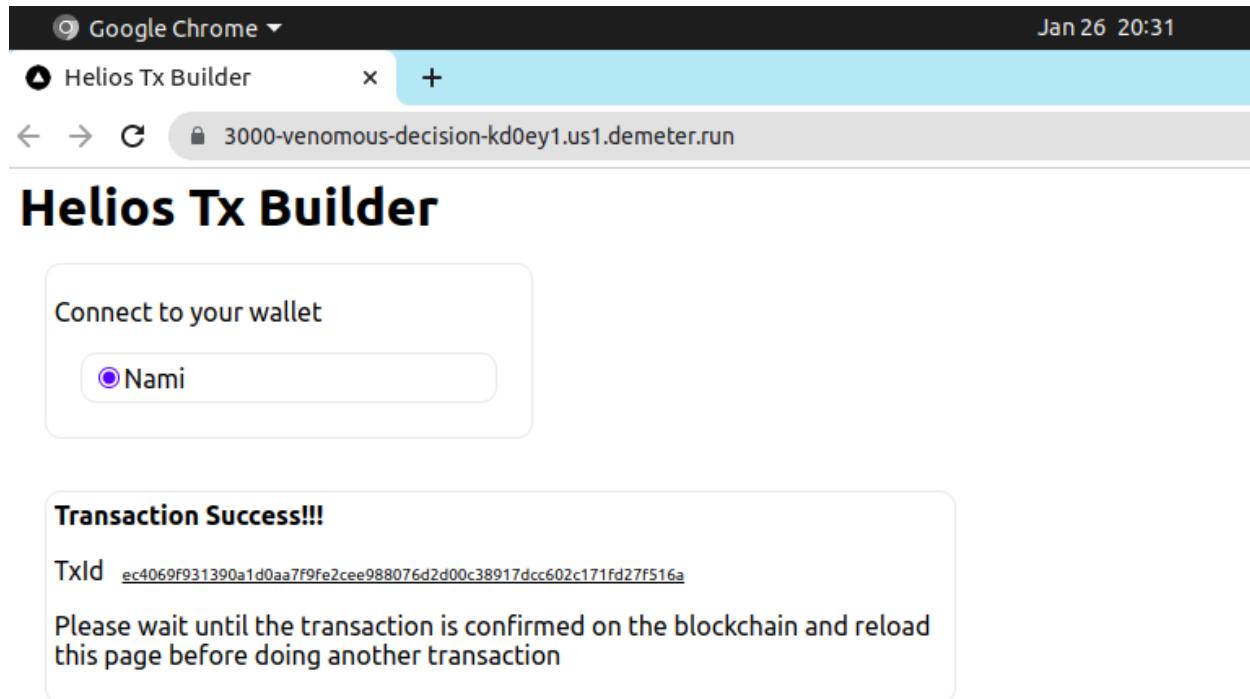
Connect to your wallet

Nami

**Transaction Success!!!**

TxId [ec4069f931390a1d0aa7f9fe2cee988076d2d00c38917dcc602c171fd27f516a](#)

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



Google Chrome ▾ Jan 26 20:33

Helios Tx Builder x Transaction ec4069f931390a1d0aa7f9fe2cee988076d2d00c38917dcc602c171fd27f516a +

← → C prepod.cexplorer.io/tx/ec4069f931390a1d0aa7f9fe2cee988076d2d00c38917dcc602c171fd27f516a

Cexplorer.io prepod

Hi SleepingCharles

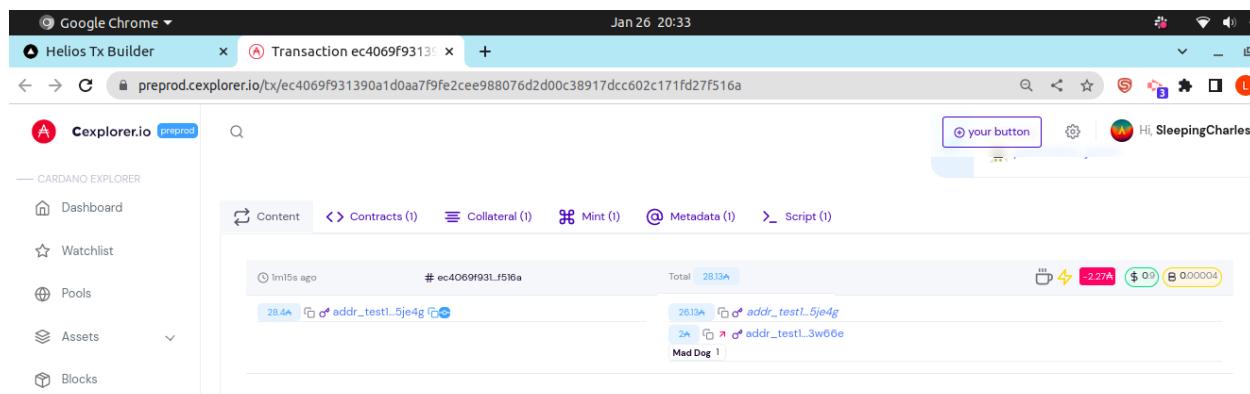
CARDANO EXPLORER

- Dashboard
- Watchlist
- Pools
- Assets
- Blocks

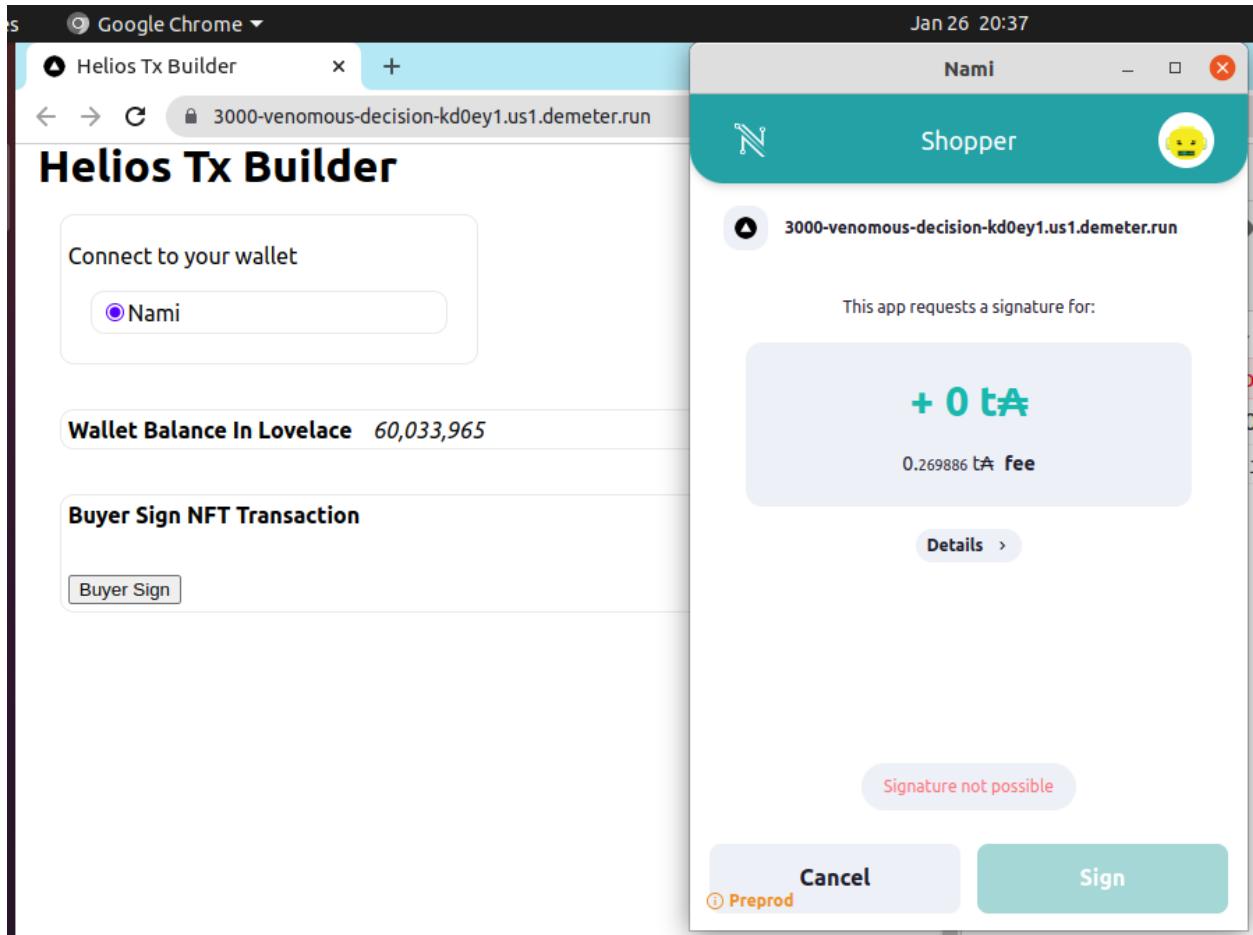
Content Contracts Collateral Mint Metadata Script

1m15s ago # ec4069f931.f516a Total 28.13A

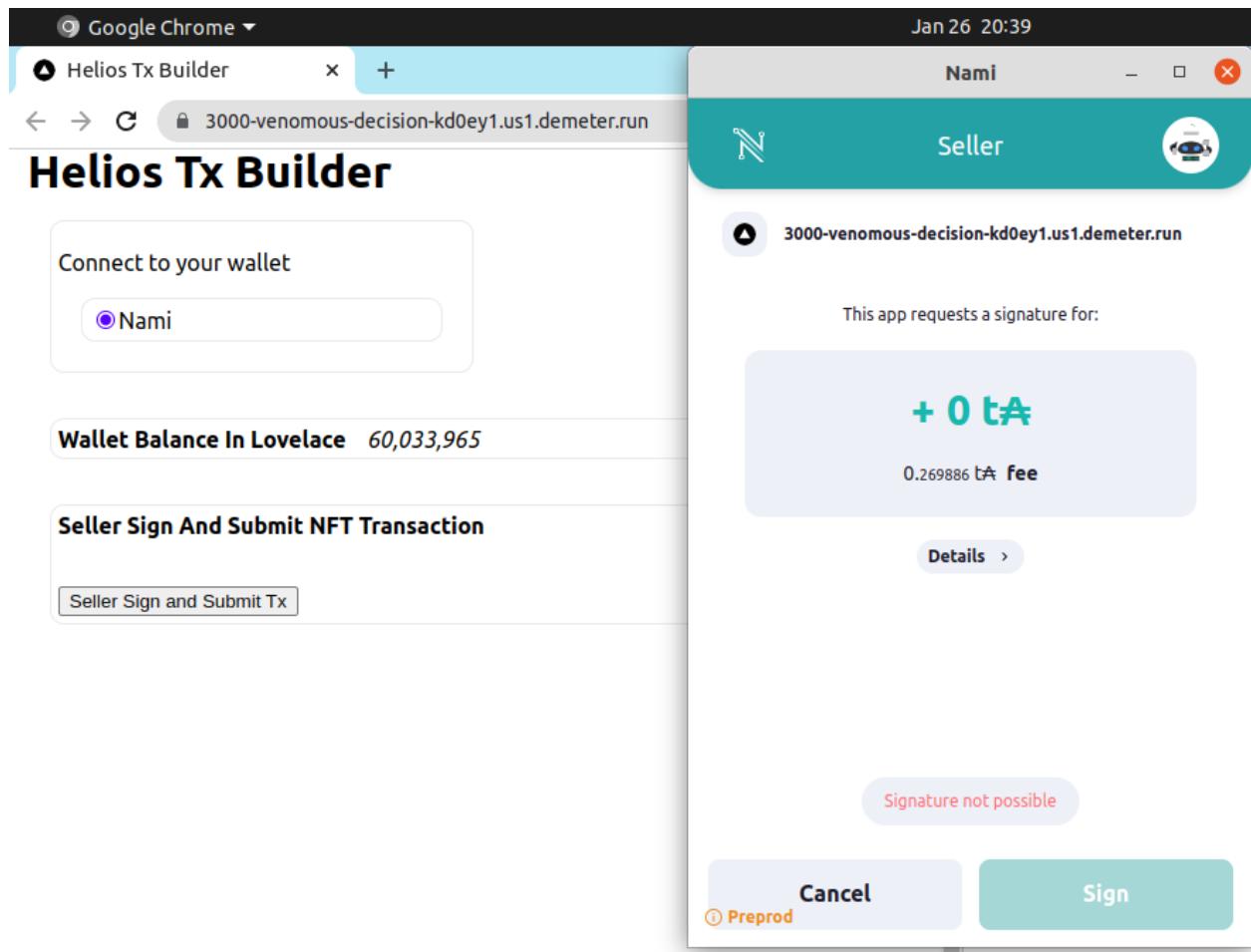
28.4A ↗ addr\_test1...5je4g ↗ 28.13A ↗ addr\_test1...5je4g  
2A ↗ ↗ ↗ addr\_test1...3w66e  
Mad Dog 1



## Negative Test Case - Incorrect Buyer PKH



## Negative Test Case - Incorrect Seller PKH



## Negative Test Case - Buyer pretending to be seller

The screenshot shows a Google Chrome browser window titled "Helios Tx Builder". The URL is "3000-venomous-decision-kd0ey1.us1.demeter.run". The page displays a "Seller Sign And Submit NFT Transaction" form with a "Seller Sign and Submit Tx" button. On the right, the developer tools' "Console" tab is open, showing the following error message:

```
Jan 26 20:41
1 Issue: F 1
Verifying seller signature... index.tsx?07ff:265
Submitting transaction... index.tsx?07ff:269
✖ Uncaught (in promise) index.tsx?07ff:274
  code: 2, info: 'Wallet could not send the tx.', message:
    "transaction submit error ShelleyTxValidationError...Ic9eb1e6
    04623e206c8b16df5202eaeg9cb13e45\\("J))))"' } 
  code: 2
  info: "Wallet could not send the tx."
  message: "\"transaction submit error ShelleyTxValidationError"
"transaction submit error ShelleyTxValidationError ShelleyBasedFraBabbage (ApplyTxError
[UtxowFailure (FromAlonzoUtxowFail (WrappedShelleyCraFailure (MissingVKeyWitnessesUTXOW
WithHashes (fromList [KeyHash
\"c5f21a3de0d477a1c0eb1e604623e206c8b16df5202eaeg9cb13e45\\("J))))))), UtxowFailure
(FromAlonzoUtxowFail (MissingRequiredSigners (fromList [KeyHash
\"c5f21a3de0d477a1c0eb1e604623e206c8b16df5202eaeg9cb13e45\\("J)))))"
```

## Negative Test Case - Incorrect buyer key

The screenshot shows a Google Chrome browser window with the title "Helios Tx Builder". The URL is "3000-venomous-decision-kd0ey1.us1.demeter.run". The page displays a form for minting an NFT. The "Buyer Wallet Address" field contains "addr\_test1q7udwxfzwm3nsmih4eq9aqgujx6wjzzaxh3ds48vd22w88u8ws8m5cnxhc6pqed70gtsqm8z3xnc7yk6a2ltt0zsv". The "NFT Token Name" field contains "Mad Dog". The "NFT Description" field contains "Crazy dog that loves treats". The "NFT Image" field contains "QmrckPQPzthJkS9GRSxdw2SzSinAwdDW34xDZd26MrV5S". The "Seller Wallet Address" field contains "addr\_test1qz47gdmcx5w7sup6c7vpz8csxezcknafq96fcmqnj3gznkwkcy2xcuymlgas0qh7y8ppmd5nhkvu5wlcs98qy6". A "Mint NFT" button is at the bottom. On the right, the developer tools' "Console" tab is open, showing a single error message: "Uncaught (in promise) Error: Trace: line helios.js?9096:1334 598 of IR". The stack trace follows:

```
tx before final
▶ {body: {...}, witnesses: {...}, valid: false, metadata: {...}}
NFT1: true
NFT2: true
NFT3: false
✖ ▶ Uncaught (in promise) Error: Trace: line helios.js?9096:1334
598 of IR
RuntimeError on line 64 of IR: transaction rejected
at RuntimeError.addTrace (helios.js?9096:1334:1)
at RuntimeError.addTraceSite (helios.js?9096:1344:1)
at UplcAnon.call (helios.js?9096:8960:1)
at async UplcProgram.runInternal (helios.js?9096:11252:1)
at async UplcProgram.run (helios.js?9096:11293:1)
at async UplcProgram.profile (helios.js?9096:11362:1)
at async TxWitnesses.executeRedeemers (helios.js?9096:3333
0:1)
at async Tx.executeRedeemers (helios.js?9096:32172:1)
at async Tx.finalize (helios.js?9096:32357:1)
at async mintNFT (index.tsx?07ff:240:5)
```

## Negative Test Case - Incorrect Seller key

The screenshot shows a Google Chrome browser window with the title "Helios Tx Builder". The URL is "3000-venomous-decision-kd0ey1.us1.demeter.run". The page displays a form for minting an NFT, with fields for "Buyer Wallet Address" (Nami), "NFT Token Name" (Mad Dog), "NFT Description" (Crazy dog that loves treats), "NFT Image" (a placeholder image URL), and "Seller Wallet Address" (a long address). A "Mint NFT" button is at the bottom. On the right, the developer tools' "Console" tab is open, showing a stack trace of errors. At the top of the console, it says "Default levels" and "1 Issue". The errors listed are:

```
tx before final index.tsx?07ff:237
▶ {body: {...}, witnesses: {...}, valid: false, metadata: {...}}
NFT1: true helios.js?9096:33333
NFT2: true helios.js?9096:33333
NFT3: true helios.js?9096:33333
NFT4: false helios.js?9096:33333
✖ ▶ Caught (in promise) Error: Trace: line helios.js?9096:1334
598 of IR
RuntimeError on line 64 of IR: transaction rejected
at RuntimeError.addTrace (helios.js?9096:1334:1)
at RuntimeError.addTraceSite (helios.js?9096:1344:1)
at UpLCAnon.call (helios.js?9096:8960:1)
at async UpLCProgram.runInternal (helios.js?9096:11252:1)
at async UpLCProgram.run (helios.js?9096:11293:1)
at async UpLCProgram.profile (helios.js?9096:11362:1)
at async UpLCWitnesses.executeRedeemers (helios.js?9096:3333
0:1)
at async Tx.executeRedeemers (helios.js?9096:32172:1)
at async Tx.finalize (helios.js?9096:32357:1)
at async mintNFT (index.tsx?07ff:240:5)
```

At the bottom left of the browser window, there is a red notification bar with the text "1 error".

# Vesting

## Positive Test Cases - Claim

The screenshot shows a split-screen view of the Helios Tx Builder application. On the left, the main interface displays a form for creating a vesting transaction. On the right, a modal window from the Nami wallet app shows the transaction details and a signature request.

**Left Panel (Helios Tx Builder):**

- Connect to your wallet:** Nami (selected)
- View Smart Contract:** vesting.hl
- Wallet Balance In Lovelace:** 57,762,666
- Beneficiary Wallet Address:** addr\_test1qqpaau0m8y2jf7623uw67muxc9pr9kxunmmgcehujhw0kp62r7dpm82ujfvmgeczvulhtn3ja7fs8hl9xetmx9as3z
- Amount Of Ada To Lock:** 10
- Vesting Expiry Date:** 01/20/2023
- Buttons:** Lock Ada, Claim Funds

**Right Panel (Nami Wallet App):**

- Owner:** Nami
- Smart Contract:** 3000-venomous-decision-kd0ey1.us1.demeter.run
- Message:** This app requests a signature for:  
- 10.240208 tA  
0.240208 tA fee
- Buttons:** Details, Cancel, Preprod, Sign

Google Chrome ▾ Jan 27 08:16

Helios Tx Builder x +

3000-venomous-decision-kd0ey1.us1.demeter.run

# Helios Tx Builder

Connect to your wallet

Nami

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

**Transaction Success!!!**

TxId [96d960b01023e68cb46689c1a6aae5808387faab835ec7e49cca64db042094c9](#)

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

**7ec1e642831b1b502dd6888519b481b5956cc6107413d7c407b303ab**

You will need this key to unlock your funds

Google Chrome ▾ Jan 27 08:17

Helios Tx Builder

3000-venomous-decision-kd0ey1.us1.demeter.run

# Helios Tx Builder

Connect to your wallet

Nami

View Smart Contract: vesting.hl

Wallet Balance In Lovelace 108,435,271

Beneficiary Wallet Address

Enter Beneficiary Wallet Address

Amount Of Ada To Lock

Enter Amount

Vesting Expiry Date

mm/dd/yyyy

Lock Ada

Claim Funds

7ec1e642831b1b502dd6888519b481b5956cc6107413d7c407b303ab

Claim Funds

Nami

Beneficiary

3000-venomous-decision-kd0ey1.us1.demeter.run

This app requests a signature for:

+ 9.790862 tA

+1 Asset

0.209138 tA fee

Details >

Cancel

Sign

Preprod

Google Chrome ▾ Jan 27 08:18

Helios Tx Builder x +

← → C 3000-venomous-decision-kd0ey1.us1.demeter.run

# Helios Tx Builder

Connect to your wallet

Nami

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

**Transaction Success!!!**

TxId [1c052c34495342524439bde2e81900688eda7c363e6fad32255535442dd513fa](#)

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

Google Chrome ▾ Jan 27 08:18

Helios Tx Builder Transaction 1c052c34495...

preprod.explorer.io/tx/1c052c34495342524439bde2e81900688eda7c363e6fad32255535442dd513fa

Cexplorer.io preprod

Hash: 1c052c34495342524439bde2e81900688eda7c363e6fad32255535442dd513fa

Dashboard Watchlist Pools Assets Blocks Transactions dApps Metadata More

Cardano Explorer

Date 5s ago

Epoch 48

Block 564,108

Slot 19,142,308 (epoch slot 47,908)

Total Output 19.58 A (\$ 75) B 000032

Fee 0.21 A (\$ 0)

Outputs 2

TTL locked in 1h58m (19,149,445)

Assurance 0/8

Transaction Size 0.97kB (0.49kB) this tx 100%

Script Size 0.47kB script 49% I/O 5%

Block Size (TX Count) 0.97kB (1) available 99%

Minted by [CAN] CanadaStakes

Content Contracts (1) Collateral (1)

5s ago # 1c052c3449..513fa Total 19.58A

10A addr\_test1..qekxy B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Vesting Key -1

9.79A addr\_test1..zdgj8 B C D E F G H I J K L M N O P Q R S T U V W X Y Z

9.58A addr\_test1..zdgj8 B C D E F G H I J K L M N O P Q R S T U V W X Y Z

## Positive Test Cases - Cancel

The screenshot shows the Helios Tx Builder application running in Google Chrome. The URL is 3000-venomous-decision-kd0ey1.us1.demeter.run. A modal dialog box from the Nami wallet is displayed, asking for a signature for a transaction. The transaction details are as follows:

- Beneficiary Wallet Address:** addr\_test1qqpau0m8y57y2j7623uv67mucc9pr9lxunmmgcehujhw0kp62r7dpm82ujjfmvggezcvulhtn3ja7fs8hl9xetmx9as3z
- Amount Of Ada To Lock:** 20
- Vesting Expiry Date:** 02/03/2023
- Claim Funds:** Enter The Vesting Key

The Nami wallet modal shows the transaction amount as **- 20.246236 tA** and includes a note about a **0.246236 tA fee**. It features a **Cancel** button, a **Preprod** link, and a **Sign** button.

Google Chrome ▾ Jan 27 08:21

Helios Tx Builder x +

← → C 3000-venomous-decision-kd0ey1.us1.demeter.run

# Helios Tx Builder

Connect to your wallet

Nami

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

**Transaction Success!!!**

TxId [4bded94adf4ae93447c65f3b934c21ccceae4b145a48f5cc4fa044bd78f60658](#)

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  
**c1ecdbc22d200a37adb7e3fe577c33b5a340f91470977eb1b2a3ae4c**

You will need this key to unlock your funds

Google Chrome ▾ Jan 27 08:23

Helios Tx Builder +

3000-venomous-decision-kd0ey1.us1.demeter.run

View Smart Contract: vesting.hl

Wallet Balance In Lovelace 27,276,222

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  
c1ecdbc22d200a37adb7e3fe577c33b5a340f91470977eb1b2a3ae4c

Cancel Vesting

Nami Owner

3000-venomous-decision-kd0ey1.us1.demeter.run

This app requests a signature for:

+ 19.790991 tA

+ 1 Asset

0.209009 tA fee

Details >

Cancel

Preprod

Sign

The screenshot shows a web-based transaction builder for a vesting smart contract. The main page has sections for entering a beneficiary wallet address, specifying the amount of ADA to lock, setting a vesting expiry date, and claiming funds using a vesting key. Below these sections is a 'Cancel Vesting' button with a specific transaction ID. A modal window titled 'Nami' is overlaid on the page, showing a summary of the transaction: it adds 19.790991 tA to the beneficiary's wallet, requires one asset, and includes a fee of 0.209009 tA. The modal also includes a 'Details >' link and two buttons: 'Cancel' and 'Sign'. The 'Sign' button is highlighted in teal.

Google Chrome ▾ Jan 27 08:23

Helios Tx Builder

3000-venomous-decision-kd0ey1.us1.demeter.run

Connect to your wallet

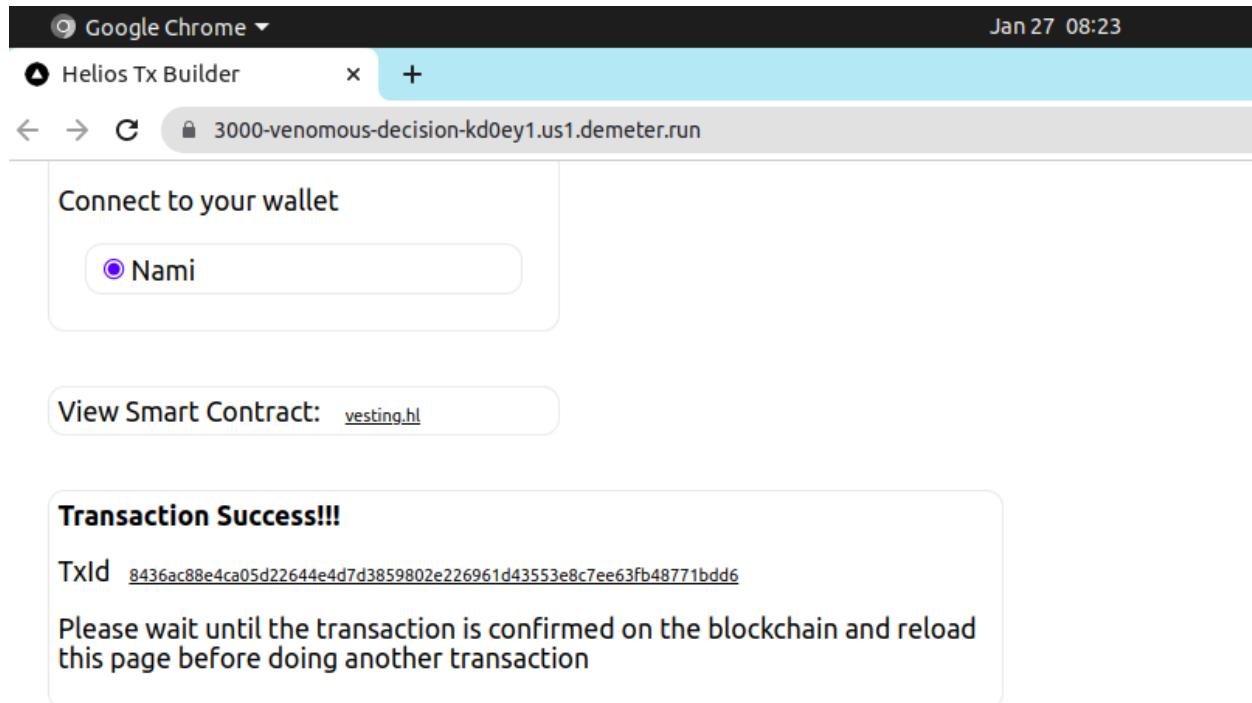
Nami

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

**Transaction Success!!!**

TxId [8436ac88e4ca05d22644e4d7d3859802e226961d43553e8c7ee63fb48771bdd6](#)

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



Google Chrome ▾ Jan 27 08:24

Helios Tx Builder

Transaction 8436ac88e4ca05d22644e4d7d3859802e226961d43553e8c7ee63fb48771bdd6

Cexplorer.io preprod

your button

Hi, SleepingCharles

Date 5s ago

Epoch 48

Block 564,119

Slot 19,142,629 (epoch slot 48,229)

Total Output 47.07 ADA (\$ 17.9) 0.000078

Fee 0.21 ADA (\$ 0)

Outputs 2

TTL locked in 1h58m (19,149,763)

1/8 Assurance

0.97kB (0.49kB) Transaction Size

0.47kB Script Size

6.67kB (4) Block Size (TX Count)

Minted by [BLADE] BLADE Pool - bladepool.com

Content Contracts (1) Collateral (1)

5s ago # 8436ac88e4.lbdd6 Total 47.07 ADA

2728A addr\_test1\_5je4g

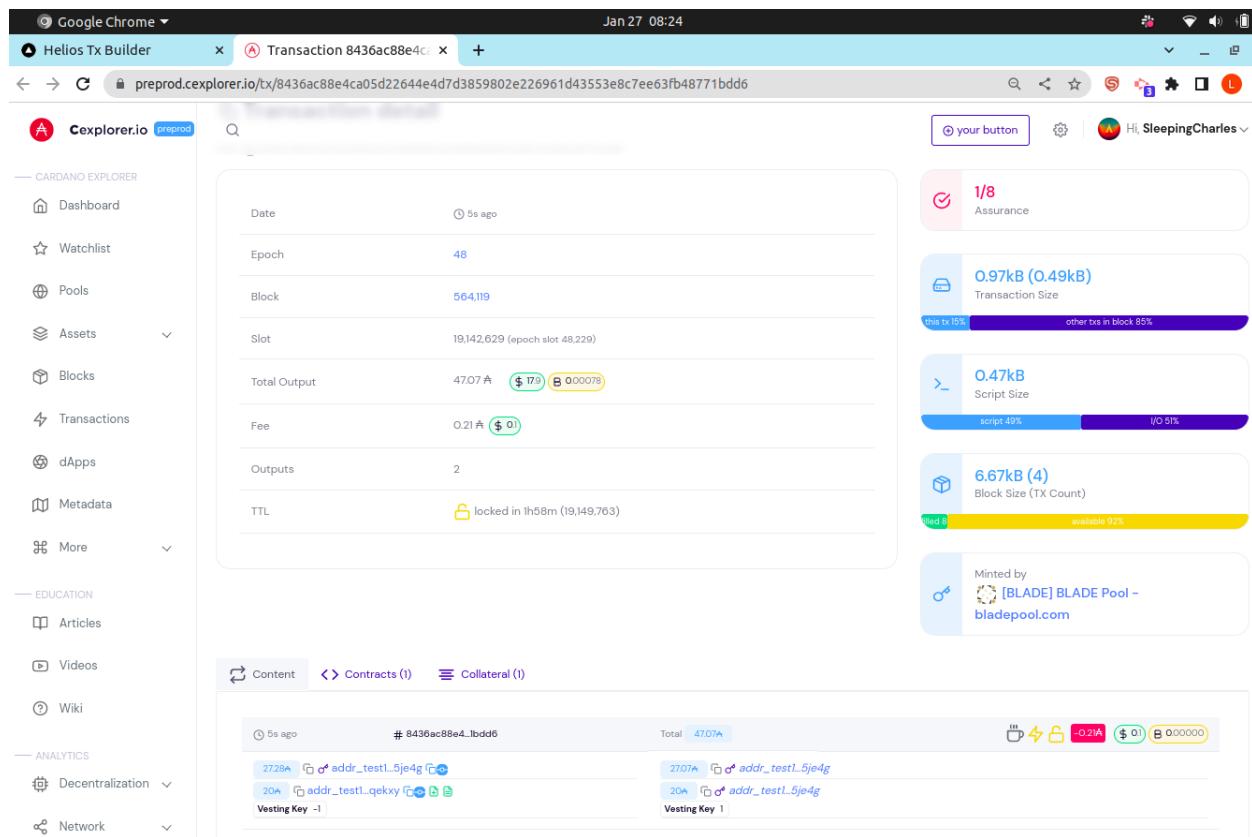
20K addr\_test1\_qekxy

Vesting Key -1

2707A addr\_test1\_5je4g

20K addr\_test1\_5je4g

Vesting Key 1



## Negative Test Case - Claim before deadline

Google Chrome ▾ Jan 27 08:29

Helios Tx Builder 3000-venomous-decision-kd0ey1.us1.demeter.run

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

Wallet Balance In Lovelace 118,226,133

Beneficiary Wallet Address  
Enter Beneficiary Wallet Address

Amount Of Ada To Lock  
Enter Amount

Vesting Expiry Date  
mm/dd/yyyy

Lock Ada

Claim Funds  
2351c335da9df778b4b4df02f61301a622c6b2e474b7dbfbfa70a58

Claim Funds

Cancel Vesting  
Enter The Vesting Key

Cancel Vesting

! 1 error X

Elements Console Filter 1 hidden

Default levels 1 Issue: 1

```
getKeyUTXO:keyMPH index.tsx?07ff:279  
2351c335da9df778b4b4df02f61301a622c6b2e474b7dbfbfa70a58  
getKeyUTXO:keyName index.tsx?07ff:280  
56657374696e67204b6579  
blockfrost url https://cardano-preprod.b index.tsx?07ff:283  
lockfrost.io/api/v0/addresses/addr_test1wpezxvvzqe...c335da9...  
tx before final index.tsx?07ff:388  
► {body: {}, witnesses: {}, valid: false, metadata: null}  
VS3: false helios.js?166d:33311  
✖ ► Uncaught (in promise) Error: Trace: helios.js?166d:1334  
line 328 of IR  
RuntimeError on line 44 of IR: transaction rejected  
at RuntimeError.addTrace (helios.js?166d:1334:1)  
at RuntimeError.addTraceSite (helios.js?166d:1344:1)  
at UplcAnon.call (helios.js?166d:8960:1)  
at async UplcProgram.runInternal (helios.js?166d:11252:  
1)  
at async UplcProgram.run (helios.js?166d:11293:1)  
at async UplcProgram.profile (helios.js?166d:11362:1)  
at async TxWitnesses.executeRedeemers (helios.js?166d:3  
3308:1)  
at async Tx.executeRedeemers (helios.js?166d:32172:1)  
at async Tx.finalize (helios.js?166d:32357:1)  
at async claimFunds (index.tsx?07ff:391:5)
```

## Negative Test Case - Cancel after deadline

The screenshot shows a Google Chrome window with the title "Helios Tx Builder". The URL is "3000-venomous-decision-kd0ey1.us1.demeter.run". The page displays a form for interacting with a vesting smart contract. On the left, there are fields for "Beneficiary Wallet Address" (with placeholder "Enter Beneficiary Wallet Address"), "Amount Of Ada To Lock" (with placeholder "Enter Amount"), "Vesting Expiry Date" (with placeholder "mm/dd/yyyy" and a calendar icon), and "Claim Funds" (with placeholder "Enter The Vesting Key"). Below these is a "Cancel Vesting" section containing a text input field with the value "9438e8448d781f31ae524e5827aa34ec7cf362dff9c45d809b1bb19b" and a "Cancel Vesting" button. At the bottom left, a red box indicates "1 error". On the right, the browser's developer tools are open, specifically the "Console" tab. It shows a series of log entries and errors. A prominent error message is highlighted in a pink box: "Uncaught (in promise) Error: Trace: helios.js?166d:1334 line 328 of IR RuntimeError on line 44 of IR: transaction rejected". The stack trace continues through several functions in "helios.js" and "index.tsx".

```
getKeyUTXO:keyMPH index.tsx?07ff:279  
9438e8448d781f31ae524e5827aa34ec7cf362dff9c45d809b1bb19b  
getKeyUTXO:keyName index.tsx?07ff:280  
566573746966e67204b6579  
blockfrost url https://cardano-preprod.b index.tsx?07ff:283  
lockfrost.io/api/v0/addresses/addr_test1wpezxvvzqe...e8448d7...  
tx before final index.tsx?07ff:468  
▶ body: {}, witnesses: {}, valid: false, metadata: null  
VS1: false helios.js?166d:33311  
✖ Uncought (in promise) Error: Trace: helios.js?166d:1334  
line 328 of IR  
RuntimeError on line 44 of IR: transaction rejected  
at RuntimeError.addTrace (helios.js?166d:1334:1)  
at RuntimeError.addTraceSite (helios.js?166d:1344:1)  
at UplcAnon.call (helios.js?166d:8960:1)  
at async UplcProgram.runInternal (helios.js?166d:11252:  
1)  
at async UplcProgram.run (helios.js?166d:11293:1)  
at async UplcProgram.profile (helios.js?166d:11362:1)  
at async TxWitnesses.executeRedeemers (helios.js?166d:3  
3308:1)  
at async Tx.executeRedeemers (helios.js?166d:32172:1)  
at async Tx.finalize (helios.js?166d:32357:1)  
at async cancelVesting (index.tsx?07ff:471:5)
```

## Negative Test Case - Claim with incorrect wallet

The screenshot shows a Google Chrome window with the title "Helios Tx Builder". The URL is "3000-venomous-decision-kd0ey1.us1.demeter.run". The page displays a form for creating a vesting transaction. The "View Smart Contract" field contains "vesting.hl". The "Wallet Balance In Lovelace" field shows "31,582,749". The "Beneficiary Wallet Address" field is empty. The "Amount Of Ada To Lock" field has "Enter Amount". The "Vesting Expiry Date" field is empty. The "Lock Ada" button is present. The "Claim Funds" section shows a copied address: "9438e8448d781f31ae524e5827aa34ec7cf362dff9c45d809b1bb19b". The "Claim Funds" button is present. The "Cancel Vesting" section shows an empty "Enter The Vesting Key" field and a "Cancel Vesting" button. A red banner at the bottom left indicates "1 error". On the right, the browser's developer tools Console tab is open, showing the following error stack trace:

```
getKeyUTXO:keyMPH index.tsx?07ff:279  
9438e8448d781f31ae524e5827aa34ec7cf362dff9c45d809b1bb19b  
getKeyUTXO:keyName index.tsx?07ff:280  
56657374696e67204b6579  
blockfrost url https://cardano-preprod.b index.tsx?07ff:283  
lockfrost.io/api/v0/addresses/addr_test1wpezxvvzqe...e8448d7...  
tx before final index.tsx?07ff:388  
▶ body: {...}, witnesses: {...}, valid: false, metadata: null  
VS3: true helios.js?166d:33311  
VS4: false helios.js?166d:33311  
✖ Unc caught (in promise) Error: Trace: helios.js?166d:1334  
line 328 of IR  
RuntimeError on line 44 of IR: transaction rejected  
at RuntimeError.addTrace (helios.js?166d:1334:1)  
at RuntimeError.addTraceSite (helios.js?166d:1344:1)  
at UplcAnon.call (helios.js?166d:8960:1)  
at async UplcProgram.runInternal (helios.js?166d:11252:  
1)  
at async UplcProgram.run (helios.js?166d:11293:1)  
at async UplcProgram.profile (helios.js?166d:11362:1)  
at async TxWitnesses.executeRedeemers (helios.js?166d:3  
3308:1)  
at async Tx.executeRedeemers (helios.js?166d:32172:1)  
at async Tx.finalize (helios.js?166d:32357:1)  
at async claimFunds (index.tsx?07ff:391:5)
```

## Negative Test Case - Cancel with incorrect wallet

The screenshot shows a Google Chrome browser window with the title "Helios Tx Builder". The URL is "3000-venomous-decision-kd0ey1.us1.demeter.run". The page displays a form for managing vesting contracts. On the left, there are sections for "Wallet Balance in Lovelace" (118,226,133), "Beneficiary Wallet Address" (input field), "Amount Of Ada To Lock" (input field), "Vesting Expiry Date" (input field), and "Lock Ada" (button). Below these are sections for "Claim Funds" (input field) and "Cancel Vesting" (input field containing a long hex string and button). A red banner at the bottom indicates "1 error". On the right, the developer tools' "Console" tab is open, showing a stack trace of errors. The errors include "Uncaught (in promise) Error: Trace: helios.js?166d:1334 line 328 of IR", "RuntimeError on line 44 of IR: transaction rejected", and several calls to UplicProgram methods like run, profile, and executeRedeemers.

```
getKeyUTXO:keyMPH index.tsx?07ff:279  
2351c335da9df778b4b4df02f61301a622c6b2e474b7dbfbfa70a58  
getKeyUTXO:keyName index.tsx?07ff:280  
56657374696e672046579  
blockfrost url https://cardano-preprod.b index.tsx?07ff:283  
lockfrost.io/api/v0/addresses/addr_test1wpezxvvzqe...c335da9...  
tx before final index.tsx?07ff:468  
▶ {body: {}, witnesses: {}, valid: false, metadata: null}  
VS1: true helios.js?166d:33311  
VS2: false helios.js?166d:33311  
✖ ▶ Uncaught (in promise) Error: Trace: helios.js?166d:1334  
line 328 of IR  
RuntimeError on line 44 of IR: transaction rejected  
at RuntimeError.addTrace (helios.js?166d:1334:1)  
at RuntimeError.addTraceSite (helios.js?166d:1344:1)  
at UplicAnon.call (helios.js?166d:8966:1)  
at async UplicProgram.runInternal (helios.js?166d:11252:  
1)  
at async UplicProgram.run (helios.js?166d:11293:1)  
at async UplicProgram.profile (helios.js?166d:11362:1)  
at async TxWitnesses.executeRedeemers (helios.js?166d:3  
3308:1)  
at async Tx.executeRedeemers (helios.js?166d:32172:1)  
at async Tx.finalize (helios.js?166d:32357:1)  
at async cancelVesting (index.tsx?07ff:471:5)
```

# Donation

## Positive Test Cases

The screenshot shows a Shopify checkout page for a donation. The URL in the address bar is [test-payment-poc.myshopify.com/checkouts/c/51399cc5f7a9dba3ce62879b4e741b2c/thank\\_you](https://test-payment-poc.myshopify.com/checkouts/c/51399cc5f7a9dba3ce62879b4e741b2c/thank_you). The page displays a confirmation message: "Your order is confirmed" and "Thank you!". It includes a "Pay Now In Ada" button and a "Customer information" section with contact and billing details. On the right, there's a sidebar titled "Widget" showing a single item in the cart: a red heart icon labeled "Widget" with a price of "\$50.00 CAD".

Google Chrome ▾ Jan 27 10:50

Thank you for your purch x +

test-payment-poc.myshopify.com/checkouts/c/51399cc5f7a9dba3ce62879b4e741b2c/thank\_you

test-payment-poc

5247401754903

✓ Thank you!

Your order is confirmed

Please select to the Pay Now With Ada link below to pay using your Cardano Wallet

Email me with news and offers

Pay To Complete Your Order

Pay Now In Ada

Contact information

lawrence.ley@contextsolution.ca

Payment method

Pay With Ada - \$50.00

Billing address

Test  
123 Street  
Miami ON M1T 2N2  
Canada

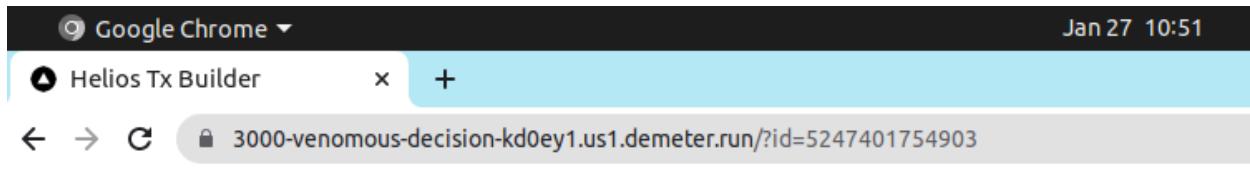
Need help? [Contact us](#)

Continue shopping

Widget

\$50.00

Total CAD \$50.00



# Helios Tx Builder

Connect to your wallet

Nami

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

**Wallet Balance In Lovelace** 361,762,455

## Buy Product

Order ID 5247401754903

Order Total \$50.00

ADA Amount Estimate 132.28

[Pay With Ada](#)

Google Chrome ▾ Jan 27 10:53

Helios Tx Builder x +

3000-venomous-decision-kd0ey1.us1.demeter.run/?id=5247401754903

# Helios Tx Builder

Connect to your wallet

Nami

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

Wallet Balance In Lovelace 361,762,455

**Buy Product**

Order ID 5247401754903

Order Total \$50.00

ADA Amount Estimate 132.28

[Pay With Ada](#)

Nami Shopper 😕

3000-venomous-decision-kd0ey1.us1.demeter.run

This app requests a signature for:

- 132.448317 tA

0.168317 tA fee

Details >

Cancel

① Preprod

Sign

Google Chrome ▾ Jan 27 10:53

Helios Tx Builder

3000-venomous-decision-kd0ey1.us1.demeter.run/?id=5247401754903

# Helios Tx Builder

Connect to your wallet

Nami

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

**Transaction Success!!!**

TxId [4131abc70c5336b2896a9b0c8a9699bf510b24c8d0c1f0edb4497595fc5acaa8](#)

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

Google Chrome ▾ Jan 27 10:54

Helios Tx Builder × Transaction 4131abc70c5...

preprod.explorer.io/tx/4131abc70c5336b2896a9b0c8a9699bf510b24c8d0c1f0edb4497595fc5acaa8

Cexplorer.io prepred

CARDANO EXPLORER

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- Decentralization
- Network

Transaction detail

Hash: 4131abc70c5336b2896a9b0c8a9699bf510b24c8d0c1f0edb4497595fc5acaa8

Date	41s ago
Epoch	48
Block	564,494
Slot	19,151,018 (epoch slot 57,218)
Total Output	361.59 ADA (\$ 137) 0.00598
Fee	0.17 ADA (\$ 0)
Outputs	2

1/8 Assurance

0.29kB (0.29kB) Transaction Size

0.29kB (1) Block Size (TX Count)

Minted by pooltz063u..jw0e7

Content

41s ago	# 4131abc70c...acaa8	Total 361.59ADA	132.45ADA (\$ 50.4) 0.00219
361.76ADA	addr_test1...pmr54	229.31ADA addr_test1...pmr54	132.28ADA addr_test1...ckk0k

### Before spend-tx.sh

```
$ cardano-cli query utxo --address addr_test1wr...kk0k --cardano-mode
--testnet-magic 1
                                         TxHash          TxIx
Amount
-----
4131abc70c5336b2896a9b0c8a9699bf510b24c8d0c1f0edb4497595fc5acaa8      0
132280000 lovelace + TxOutDatumInline
ReferenceTxInsScriptsInlineDatumsInBabbageEra (ScriptDataList
[ScriptDataNumber 131780000, ScriptDataBytes "5247401754903", ScriptDataBytes
"0.37941"])
d6c4a585ffbbdcc371a3472e829133643c9dfa4f1b61a4ccb8e75fd4480c22ce      0
25000000 lovelace + TxOutDatumNone
```

```
$ ./spend-tx.sh preprod
+ '[' -z preprod ']'
+ ENV=preprod
++ readlink -f ./spend-tx.sh
++ dirname
/config/workspace/repo/helios-examples/donation/scripts/cardano-cli/spend-tx.s
h
+ MY_DIR=/config/workspace/repo/helios-examples/donation/scripts/cardano-cli
+ source
/config/workspace/repo/helios-examples/donation/scripts/cardano-cli/preprod/glo
bal-export-variables.sh
++ set -e
++ set -o pipefail
++ export BASE=/config/workspace/repo/helios-examples/donation
++ BASE=/config/workspace/repo/helios-examples/donation
++ export WORK=/config/workspace/repo/helios-examples/donation/work
++ WORK=/config/workspace/repo/helios-examples/donation/work
++ export TESTNET_MAGIC=1
++ TESTNET_MAGIC=1
++ export
ADMIN_VKEY=/config/workspace/repo/helios-examples/.keys/admin/key.vkey
++ ADMIN_VKEY=/config/workspace/repo/helios-examples/.keys/admin/key.vkey
++ export
ADMIN_SKEY=/config/workspace/repo/helios-examples/.keys/admin/key.skey
++ ADMIN_SKEY=/config/workspace/repo/helios-examples/.keys/admin/key.skey
++ export ADMIN_PKH=/config/workspace/repo/helios-examples/.keys/admin/key.pkh
++ ADMIN_PKH=/config/workspace/repo/helios-examples/.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=d6c4a585ffbbdcc371a3472e829133643c9dfa4f1b61a4ccb8e75fd4480c22c
e#0
++
VAL_REF_SCRIPT=d6c4a585ffbbdcc371a3472e829133643c9dfa4f1b61a4ccb8e75fd4480c22c
e#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/helios-examples/donation/work
+ mkdir -p /config/workspace/repo/helios-examples/donation/work-backup
+ rm -f
/config/workspace/repo/helios-examples/donation/work/ada_usd_price.encoded
/config/workspace/repo/helios-examples/donation/work/admin-utxo-collateral-val
id.json /config/workspace/repo/helios-examples/donation/work/admin-utxo.json
/config/workspace/repo/helios-examples/donation/work/admin-utxo-valid.json
/config/workspace/repo/helios-examples/donation/work/datum-in.json
/config/workspace/repo/helios-examples/donation/work/order_id.encoded
/config/workspace/repo/helios-examples/donation/work/pparms.json
/config/workspace/repo/helios-examples/donation/work/refund-tx-alonzo.body
/config/workspace/repo/helios-examples/donation/work/refund-tx-alonzo.tx
/config/workspace/repo/helios-examples/donation/work/validator-utxo.json
+ rm -f '/config/workspace/repo/helios-examples/donation/work-backup/*'
+ cardano-cli query protocol-parameters --testnet-magic 1 --out-file
/config/workspace/repo/helios-examples/donation/work/pparms.json
+
validator_script=/config/workspace/repo/helios-examples/donation/scripts/cardano-cli/preprod/data/donation.plutus
++ cardano-cli address build --payment-script-file
/config/workspace/repo/helios-examples/donation/scripts/cardano-cli/preprod/da
ta/donation.plutus --testnet-magic 1
+
validator_script_addr=addr_test1wr3m0vrrccxygtmexw7ur7vujjz5gqg4fjn0k2sjsjn04
sdckk0k

```

```

+
redeemer_file_path=/config/workspace/repo/helios-examples/donation/scripts/cardano-cli/preprod/data/redeemer-spend.json
++ cat /config/workspace/repo/helios-examples/.keys/admin/key.pkh
+ admin_pkh=b9abcf6867519e28042048aa11207214a52e6d5d3288b752d1c27682
++ cardano-cli address build --testnet-magic 1 --payment-verification-key-file /config/workspace/repo/helios-examples/.keys/admin/key.vkey
+
admin_utxo_addr=addr_test1vzu6hnmgvageu2qyypy25yfqwg222tn5eg3d6j68p8dqspgdxn7
+ cardano-cli query utxo --address addr_test1vzu6hnmgvageu2qyypy25yfqwg222tn5eg3d6j68p8dqspgdxn7 --cardano-mode --testnet-magic 1 --out-file /config/workspace/repo/helios-examples/donation/work/admin-utxo.json
+ cat /config/workspace/repo/helios-examples/donation/work/admin-utxo.json
+ jq -r 'to_entries[] | select(.value.value.lovelace > 5000000) | .key'
+ readarray admin_utxo_valid_array
++ echo 8c6ae954fc2efdad33401b51bbe2a8b00a2989b94a58526b83e5e2798178f332#1
++ tr -d '\n'
+
admin_utxo_in=8c6ae954fc2efdad33401b51bbe2a8b00a2989b94a58526b83e5e2798178f332#1
+ cat /config/workspace/repo/helios-examples/donation/work/admin-utxo.json
+ jq -r 'to_entries[] | select(.value.value.lovelace == 5000000) | .key'
+ readarray admin_utxo_valid_array
++ echo 5463bf9f7b1d33045dcdbba0cb1b9ed950a9b40c853a5051e08ed23788f2ead9#0
++ tr -d '\n'
+
admin_utxo_collateral_in=5463bf9f7b1d33045dcdbba0cb1b9ed950a9b40c853a5051e08ed23788f2ead9#0
+ readarray black_list_utxo_array
+ cardano-cli query utxo --address addr_test1wr3m0vrrccxygtmexw7ur7vujjz5gqg4fjn0k2sjsjn04sdckk0k --testnet-magic 1 --out-file /config/workspace/repo/helios-examples/donation/work/validator-utxo.json
+ cat /config/workspace/repo/helios-examples/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
'4131abc70c5336b2896a9b0c8a9699bf510b24c8d0c1f0edb4497595fc5acaa8#0
'

++ echo 4131abc70c5336b2896a9b0c8a9699bf510b24c8d0c1f0edb4497595fc5acaa8#0
++ tr -d '\n'
+
order_utxo_in=4131abc70c5336b2896a9b0c8a9699bf510b24c8d0c1f0edb4497595fc5acaa8
#0
+ break
+ '[' -z 4131abc70c5336b2896a9b0c8a9699bf510b24c8d0c1f0edb4497595fc5acaa8#0
']'
++ jq -r 'to_entries[]
| select(.key ==
"4131abc70c5336b2896a9b0c8a9699bf510b24c8d0c1f0edb4497595fc5acaa8#0")
| .value.inlineDatum
/config/workspace/repo/helios-examples/donation/work/validator-utxo.json
+ order_datum_in='{
  "list": [
    {
      "int": 131780000
    },
    {
      "bytes": "35323437343031373534393033"
    },
    {
      "bytes": "302e3337393431"
    }
  ]
}'
+ echo -n '{
  "list": [
    {
      "int": 131780000
    },
    {
      "bytes": "35323437343031373534393033"
    },
    {
      "bytes": "302e3337393431"
    }
  ]
}'
++ jq -r '.list[0].int'
/config/workspace/repo/helios-examples/donation/work/datum-in.json
+ order_ada=131780000
++ jq -r '.list[1].bytes'
/config/workspace/repo/helios-examples/donation/work/datum-in.json
+ order_id_encoded=35323437343031373534393033
+ echo -n 35323437343031373534393033

```

```

++ python3 hexdump.py -r
/config/workspace/repo/helios-examples/donation/work/order_id.encoded
+ order_id=5247401754903
++ jq -r '.list[2].bytes'
/config/workspace/repo/helios-examples/donation/work/datum-in.json
+ ada_usd_price_encoded=302e3337393431
+ echo -n 302e3337393431
++ python3 hexdump.py -r
/config/workspace/repo/helios-examples/donation/work/ada_usd_price.encoded
+ ada_usd_price=0.37941
+ merchant_split=90
+ donor_split=10
+ donor_ada_amount=13178000
+ (( 13178000 < 1000000 ))
+ donor_ada=13178000
+ merchant_ada=118602000
++ date +%Y/%m/%d-%H:%M:%S
+ now=2023/01/27-16:32:13
++ curl -H 'X-Shopify-Access-Token: shpat_XXX'
https://test-payment-poc.myshopify.com//admin/api/2022-10/orders/5247401754903
.json
++ 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  6599       0 --:--:-- --:--:-- --:--:--  6601
+ shopify_order_amount=50.00
++ python3 -c 'print(round((50.00 / 0.37941), 3))'
+ shopify_order_ada=131.784
++ python3 -c 'print(131.784 * 1000000)'
+ shopify_order_lovelace=131783999.99999999
+ shopify_order_ada_truncated=131783999
+ difference=-3999
++ echo 3999
+ difference_abs=3999
+ (( 3999 > 10000 ))
+ metadata='{
  "1" : {
    "order_detail" : {
      "date" : "2023/01/27-16:32:13",
      "donation_ada_amount" : "13178000",
      "donation_split" : "10%",
      "order_id" : "5247401754903",
      "order_ada_amount" : "131780000",
      "ada_usd_price" : "0.37941",
      "version" : "0.1"
    }
  }
}'

```

```

+ echo '{"1": {"order_detail": {"date": "2023/01/27-16:32:13", "donation_ada_amount": "13178000", "donation_split": "10%", "order_id": "5247401754903", "order_ada_amount": "131780000", "ada_usd_price": "0.37941", "version": "0.1"} }'
+
metadata_file_path=/config/workspace/repo/helios-examples/donation/scripts/cardano-cli/preprod/data/donation-spend-metadata.json
+ cardano-cli transaction build --babbage-era --cardano-mode --testnet-magic 1 --change-address
addr_test1vzu6hnmgvageu2qyypy25yfqwg222tndt5eg3d6j68p8dqspgdxn7
--tx-in-collateral
5463bf9f7b1d33045dcdbba0cb1b9ed950a9b40c853a5051e08ed23788f2ead9#0 --tx-in
8c6ae954fc2efdad33401b51bbe2a8b00a2989b94a58526b83e5e2798178f332#1 --tx-in
4131abc70c5336b2896a9b0c8a9699bf510b24c8d0c1f0edb4497595fc5acaa8#0
--spending-tx-in-reference
d6c4a585ffbbdcc371a3472e829133643c9dfa4f1b61a4ccb8e75fd4480c22ce#0
--spending-plutus-script-v2 --spending-reference-tx-in-inline-datum-present
--spending-reference-tx-in-redeemer-file
/config/workspace/repo/helios-examples/donation/scripts/cardano-cli/preprod/data/redeemer-spend.json --tx-out
addr_test1vq7k907l17e59t52skm8e0ezsnmmc7h4xy30kg2klwc5n8rqug2pds+118602000
--tx-out
addr_test1vzetpfww4aaunft0ucvcrxugj8nt4lhltksky0rx0uh48cqghjfg+13178000
--required-signer-hash
b9abcf6867519e28042048aa11207214a52e6d5d3288b752d1c27682
--protocol-params-file
/config/workspace/repo/helios-examples/donation/work/pparms.json
--metadata-json-file
/config/workspace/repo/helios-examples/donation/scripts/cardano-cli/preprod/data/donation-spend-metadata.json --out-file
/config/workspace/repo/helios-examples/donation/work/spend-tx-alonzo.body
Estimated transaction fee: Lovelace 231798
+ echo 'tx has been built'
tx has been built
+ cardano-cli transaction sign --tx-body-file
/config/workspace/repo/helios-examples/donation/work/spend-tx-alonzo.body
--testnet-magic 1 --signing-key-file
/config/workspace/repo/helios-examples/.keys/admin/key.skey --out-file
/config/workspace/repo/helios-examples/donation/work/spend-tx-alonzo.tx
+ echo 'tx has been signed'
tx has been signed
+ echo 'Submit the tx with plutus script and wait 5 seconds...'
Submit the tx with plutus script and wait 5 seconds...
+ cardano-cli transaction submit --tx-file
/config/workspace/repo/helios-examples/donation/work/spend-tx-alonzo.tx
--testnet-magic 1
Transaction successfully submitted.

```

```
+ curl -s -S -d '{"order":{"id":5247401754903,"tags":"PAID IN FULL"}}' -X PUT
https://test-payment-poc.myshopify.com/admin/api/2022-10/orders/5247401754903.json
-H 'X-Shopify-Access-Token: shpat_XXX' -H 'Content-Type: application/json'
[abc cardano-cli]$
```

### After spend-tx.sh

```
$ cardano-cli query utxo --address
addr_test1wr3m0vrrccxygtmexw7ur7vujjz5gqg4fjn0k2sjsjn04sdckk0k --cardano-mode
--testnet-magic 1
```

Amount	TxHash	TxIx
-----	-----	-----
d6c4a585ffbbdcc371a3472e829133643c9dfa4f1b61a4ccb8e75fd4480c22ce		0
25000000 lovelace + TxOutDatumNone		

The screenshot shows a transaction detail page from Explorer.io. The transaction hash is c3b2f3721139c7d38885f012bab6cae0cff96a405c14a228fe382f6b7b2f074. The page displays various transaction metadata and outputs.

**Transaction Details:**

- Date: 6m20s ago
- Epoch: 48
- Block: 564,597
- Slot: 19,153,936 (epoch slot 59,536)
- Total Output: 634.07 A (241.0 B 0.0048)
- Fee: 0.23 A (0.0)
- Outputs: 3

**Outputs:**

- Output 1: 502.02 A → addr\_test1...gdxn7 (241.0 B 0.0048)
- Output 2: 132.28 A → addr\_test1...ckkk0k (118.6 B 13.18 A 50.3 B 0.00218)
- Output 3: 118.6 A → addr\_test1...g2pd5 (13.18 A 50.3 B 0.00218)

**Right-hand sidebar:**

- 22 Assurance
- 0.71kB (0.71kB) Transaction Size
- 0.71kB (1) Block Size (TX Count)
- Minted by [BLADE] BLADE Pool - bladepool.com

# Negative Test Case - invalid donation split

The screenshot shows a Google Chrome browser window displaying the Cexplorer.io transaction detail page for transaction 31b56f7b696aa966aa3ada8a7e7a2cf6d4612f096735cf14a4d60fa56b319d4c7. The transaction was created 1m43s ago, is in epoch 48, block 564,674, and slot 19,155,538. The total output is 229.15 ADA, with a fee of 0.17 ADA. There are two outputs listed. To the right, there are sections for Assurance (1/8), Transaction Size (0.29kB), Block Size (TX Count) (0.29kB), and Minted by ([ANP] ADA NORTH POOL PREPROD). Below the main table, a Content section lists three outputs with addresses and amounts: 229.31ADA, 131.64ADA, and 97.51ADA.

```
$ ./spend-tx.sh preprod
+ '[' -z preprod ']'
+ ENV=preprod
+++ readlink -f ./spend-tx.sh
++ dirname
/config/workspace/repo/helios-examples/donation/scripts/cardano-cli/spend-tx.sh
+ MY_DIR=/config/workspace/repo/helios-examples/donation/scripts/cardano-cli
+ source
/config/workspace/repo/helios-examples/donation/scripts/cardano-cli/preprod/global-export-variables.sh
++ set -e
++ set -o pipefail
++ export BASE=/config/workspace/repo/helios-examples/donation
++ BASE=/config/workspace/repo/helios-examples/donation
++ export WORK=/config/workspace/repo/helios-examples/donation/work
++ WORK=/config/workspace/repo/helios-examples/donation/work
++ export TESTNET_MAGIC=1
++ TESTNET_MAGIC=1
```

```

++ export
ADMIN_VKEY=/config/workspace/repo/helios-examples/.keys/admin/key.vkey
++ ADMIN_VKEY=/config/workspace/repo/helios-examples/.keys/admin/key.vkey
++ export
ADMIN_SKEY=/config/workspace/repo/helios-examples/.keys/admin/key.skey
++ ADMIN_SKEY=/config/workspace/repo/helios-examples/.keys/admin/key.skey
++ export ADMIN_PKH=/config/workspace/repo/helios-examples/.keys/admin/key.pkh
++ ADMIN_PKH=/config/workspace/repo/helios-examples/.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_test1vzetpfww4aaunft0ucvcrxugj8nt4lhltstya0rx0uh48cqghjfg
++ DONOR_ADDR=addr_test1vzetpfww4aaunft0ucvcrxugj8nt4lhltstya0rx0uh48cqghjfg
++ export
REFUND_ADDR=addr_test1vzs24vjh8salzqt5pahgvr34ewfwagxaxr5pz7eswugzn2gmw4f5w
++ REFUND_ADDR=addr_test1vzs24vjh8salzqt5pahgvr34ewfwagxaxr5pz7eswugzn2gmw4f5w
++ export
VAL_REF_SCRIPT=d6c4a585ffbbdcc371a3472e829133643c9dfa4f1b61a4ccb8e75fd4480c22c
e#0
++
VAL_REF_SCRIPT=d6c4a585ffbbdcc371a3472e829133643c9dfa4f1b61a4ccb8e75fd4480c22c
e#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/helios-examples/donation/work
+ mkdir -p /config/workspace/repo/helios-examples/donation/work-backup
+ rm -f
/config/workspace/repo/helios-examples/donation/work/ada_usd_price.encoded
/config/workspace/repo/helios-examples/donation/work/admin-utxo-collateral-val
id.json /config/workspace/repo/helios-examples/donation/work/admin-utxo.json
/config/workspace/repo/helios-examples/donation/work/admin-utxo-valid.json
/config/workspace/repo/helios-examples/donation/work/datum-in.json
/config/workspace/repo/helios-examples/donation/work/order_id.encoded
/config/workspace/repo/helios-examples/donation/work/order_utxo_in.txt
/config/workspace/repo/helios-examples/donation/work/pparms.json
/config/workspace/repo/helios-examples/donation/work/spend-tx-alonzo.body

```

```

/config/workspace/repo/helios-examples/donation/work/spend-tx-alonzo.tx
/config/workspace/repo/helios-examples/donation/work/validator-utxo.json
+ rm -f '/config/workspace/repo/helios-examples/donation/work-backup/*'
+ cardano-cli query protocol-parameters --testnet-magic 1 --out-file
/config/workspace/repo/helios-examples/donation/work/pparms.json
+
validator_script=/config/workspace/repo/helios-examples/donation/scripts/cardano-cli/preprod/data/donation.plutus
++ cardano-cli address build --payment-script-file
/config/workspace/repo/helios-examples/donation/scripts/cardano-cli/preprod/data/donation.plutus --testnet-magic 1
+
validator_script_addr=addr_test1wr3m0vrrccxygtmexw7ur7vujjz5gqg4fjn0k2sjsjn04sdckk0k
+
redeemer_file_path=/config/workspace/repo/helios-examples/donation/scripts/cardano-cli/preprod/data/redeemer-spend.json
++ cat /config/workspace/repo/helios-examples/.keys/admin/key.pkh
+ admin_pkh=b9abcf6867519e28042048aa11207214a52e6d5d3288b752d1c27682
++ cardano-cli address build --testnet-magic 1 --payment-verification-key-file
/config/workspace/repo/helios-examples/.keys/admin/key.vkey
+
admin_utxo_addr=addr_test1vzu6hnmgvageu2qyypy25yfqwg222tn5eg3d6j68p8dqspgdxn7
+ cardano-cli query utxo --address
addr_test1vzu6hnmgvageu2qyypy25yfqwg222tn5eg3d6j68p8dqspgdxn7 --cardano-mode
--testnet-magic 1 --out-file
/config/workspace/repo/helios-examples/donation/work/admin-utxo.json
+ cat /config/workspace/repo/helios-examples/donation/work/admin-utxo.json
+ jq -r 'to_entries[] | select(.value.value.lovelace > 5000000) | .key'
+ readarray admin_utxo_valid_array
++ tr -d '\n'
++ echo c3b2f3721139c7d38885f012bab6cae0cff96a405c14a228fe382f6b7b21f074#2
+
admin_utxo_in=c3b2f3721139c7d38885f012bab6cae0cff96a405c14a228fe382f6b7b21f074#2
+ cat /config/workspace/repo/helios-examples/donation/work/admin-utxo.json
+ jq -r 'to_entries[] | select(.value.value.lovelace == 5000000) | .key'
+ readarray admin_utxo_valid_array
++ tr -d '\n'
++ echo 5463bf9f7b1d33045dcdbba0cb1b9ed950a9b40c853a5051e08ed23788f2ead9#0
+
admin_utxo_collateral_in=5463bf9f7b1d33045dcdbba0cb1b9ed950a9b40c853a5051e08ed23788f2ead9#0
+ readarray black_list_utxo_array
+ cardano-cli query utxo --address
addr_test1wr3m0vrrccxygtmexw7ur7vujjz5gqg4fjn0k2sjsjn04sdckk0k
--testnet-magic 1 --out-file
/config/workspace/repo/helios-examples/donation/work/validator-utxo.json

```

```

+ cat /config/workspace/repo/helios-examples/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
'31b56f7b696a966aa3ada8a7e7a2cf6d4612f096735cf14a4d60fa56b319d4c7#0
'

++ tr -d '\n'
++ echo 31b56f7b696a966aa3ada8a7e7a2cf6d4612f096735cf14a4d60fa56b319d4c7#0
+
order_utxo_in=31b56f7b696a966aa3ada8a7e7a2cf6d4612f096735cf14a4d60fa56b319d4c7#0
#0
+ break
+ '[' -z 31b56f7b696a966aa3ada8a7e7a2cf6d4612f096735cf14a4d60fa56b319d4c7#0
']'
++ jq -r 'to_entries[]
| select(.key ==
"31b56f7b696a966aa3ada8a7e7a2cf6d4612f096735cf14a4d60fa56b319d4c7#0")
| .value.inlineDatum '
/config/workspace/repo/helios-examples/donation/work/validator-utxo.json
+ order_datum_in='{
  "list": [
    {
      "int": 131140000
    },
    {
      "bytes": "35323437343332343931323837"
    },
    {
      "bytes": "302e3338313237"
    }
  ]
}'
+ echo -n '{
  "list": [
    {
      "int": 131140000
    },
    {
      "bytes": "35323437343332343931323837"
    }
  ]
}'

```

```

},
{
  "bytes": "302e3338313237"
}
]
}'
++ jq -r '.list[0].int'
/config/workspace/repo/helios-examples/donation/work/datum-in.json
+ order_ada=131140000
++ jq -r '.list[1].bytes'
/config/workspace/repo/helios-examples/donation/work/datum-in.json
+ order_id_encoded=35323437343332343931323837
+ echo -n 35323437343332343931323837
++ python3 hexdump.py -r
/config/workspace/repo/helios-examples/donation/work/order_id.encoded
+ order_id=5247432491287
++ jq -r '.list[2].bytes'
/config/workspace/repo/helios-examples/donation/work/datum-in.json
+ ada_usd_price_encoded=302e3338313237
+ echo -n 302e3338313237
++ python3 hexdump.py -r
/config/workspace/repo/helios-examples/donation/work/ada_usd_price.encoded
+ ada_usd_price=0.38127
+ merchant_split=80
+ donor_split=20
+ donor_ada_amount=26228000
+ (( 26228000 < 1000000 ))
+ donor_ada=26228000
+ merchant_ada=104912000
++ date +%Y/%m/%d-%H:%M:%S
+ now=2023/01/27-17:01:47
++ curl -H 'X-Shopify-Access-Token: shpat_XXX'
https://test-payment-poc.myshopify.com//admin/api/2022-10/orders/5247432491287
.json
++ 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  15430      0 --:--:-- --:--:-- --:--:-- 15408
+ shopify_order_amount=50.00
++ python3 -c 'print(round((50.00 / 0.38127), 3))'
+ shopify_order_ada=131.141
++ python3 -c 'print(131.141 * 1000000)'
+ shopify_order_lovelace=131140999.99999999
+ shopify_order_ada_truncated=131140999
+ difference=-999
++ echo 999
+ difference_abs=999
+ (( 999 > 10000 ))

```

```

+ metadata='{
"1" : {
    "order_detail" : {
        "date" : "2023/01/27-17:01:47",
        "donation_ada_amount" : "26228000",
        "donation_split" : "20%",
        "order_id" : "5247432491287",
        "order_ada_amount" : "131140000",
        "ada_usd_price" : "0.38127",
        "version" : "0.1"
    }
}
}'
+ echo '{"1" : {"order_detail" : {"date" :
"2023/01/27-17:01:47", "donation_ada_amount" : "26228000",
"donation_split" : "20%", "order_id" : "5247432491287",
"order_ada_amount" : "131140000", "ada_usd_price" : "0.38127",
"version" : "0.1"} } }'
+
metadata_file_path=/config/workspace/repo/helios-examples/donation/scripts/cardano-cli/preprod/data/donation-spend-metadata.json
+ cardano-cli transaction build --babbage-era --cardano-mode --testnet-magic 1
--change-address
addr_test1vzu6hnmgvageu2qyypy25yfqwg222tn5eg3d6j68p8dqspgdxn7
--tx-in-collateral
5463bf9f7b1d33045dcdbba0cb1b9ed950a9b40c853a5051e08ed23788f2ead9#0 --tx-in
c3b2f3721139c7d38885f012bab6cae0cff96a405c14a228fe382f6b7b21f074#2 --tx-in
31b56f7b696aa966aa3ada8a7e7a2cf6d4612f096735cf14a4d60fa56b319d4c7#0
--spending-tx-in-reference
d6c4a585ffbbdcc371a3472e829133643c9dfa4f1b61a4ccb8e75fd4480c22ce#0
--spending-plutus-script-v2 --spending-reference-tx-in-inline-datum-present
--spending-reference-tx-in-redeemer-file
/config/workspace/repo/helios-examples/donation/scripts/cardano-cli/preprod/data/redeemer-spend.json --tx-out
addr_test1vq7k907l7e59t52skm8e0ezsnmmc7h4xy30kg2klwc5n8rqug2pds+104912000
--tx-out
addr_test1vzetpfww4aaunft0ucvcrxugj8nt4lhltstya0rx0uh48cqghjfg+26228000
--required-signer-hash
b9abcf6867519e28042048aa11207214a52e6d5d3288b752d1c27682
--protocol-params-file
/config/workspace/repo/helios-examples/donation/work/pparms.json
--metadata-json-file
/config/workspace/repo/helios-examples/donation/scripts/cardano-cli/preprod/data/donation-spend-metadata.json --out-file
/config/workspace/repo/helios-examples/donation/work/spend-tx-alonzo.body
Command failed: transaction build  Error: The following scripts have execution failures:
the script for transaction input 0 (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 use of 'error'.  
Script debugging logs: DN1: true  
DN2: false

## Negative Test Case - wrong wallet address

```
./spend-tx.sh preprod
+ '[' -z preprod ']'
+ ENV=preprod
+++ readlink -f ./spend-tx.sh
++ dirname
/config/workspace/repo/helios-examples/donation/scripts/cardano-cli/spend-tx.s
h
+ MY_DIR=/config/workspace/repo/helios-examples/donation/scripts/cardano-cli
+ source
/config/workspace/repo/helios-examples/donation/scripts/cardano-cli/preprod/gl
obal-export-variables.sh
++ set -e
++ set -o pipefail
++ export BASE=/config/workspace/repo/helios-examples/donation
++ BASE=/config/workspace/repo/helios-examples/donation
++ export WORK=/config/workspace/repo/helios-examples/donation/work
++ WORK=/config/workspace/repo/helios-examples/donation/work
++ export TESTNET_MAGIC=1
++ TESTNET_MAGIC=1
++ export
ADMIN_VKEY=/config/workspace/repo/helios-examples/.keys/admin/key.vkey
++ ADMIN_VKEY=/config/workspace/repo/helios-examples/.keys/admin/key.vkey
++ export
ADMIN_SKEY=/config/workspace/repo/helios-examples/.keys/admin/key.skey
++ ADMIN_SKEY=/config/workspace/repo/helios-examples/.keys/admin/key.skey
++ export ADMIN_PKH=/config/workspace/repo/helios-examples/.keys/admin/key.pkh
++ ADMIN_PKH=/config/workspace/repo/helios-examples/.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_test1vq7k90717e59t52skm8e0ezsnmmc7h4xy30kg2klwc5n8rqug2pds
++ DONOR_ADDR=addr_test1vq7k90717e59t52skm8e0ezsnmmc7h4xy30kg2klwc5n8rqug2pds
++ export
MERCHANT_ADDR=addr_test1vzetpfww4aaunft0ucvcrxugj8nt4lhltksktya0rx0uh48cqghjfg
++
MERCHANT_ADDR=addr_test1vzetpfww4aaunft0ucvcrxugj8nt4lhltksktya0rx0uh48cqghjfg
```

```

++ export
REFUND_ADDR=addr_test1vzs24vjh8salzqt5pahgvr34ewfwagxaxr5pz7eswugzn2gmw4f5w
++ REFUND_ADDR=addr_test1vzs24vjh8salzqt5pahgvr34ewfwagxaxr5pz7eswugzn2gmw4f5w
++ export
VAL_REF_SCRIPT=d6c4a585ffbbdcc371a3472e829133643c9dfa4f1b61a4ccb8e75fd4480c22c
e#0
++
VAL_REF_SCRIPT=d6c4a585ffbbdcc371a3472e829133643c9dfa4f1b61a4ccb8e75fd4480c22c
e#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/helios-examples/donation/work
+ mkdir -p /config/workspace/repo/helios-examples/donation/work-backup
+ rm -f
/config/workspace/repo/helios-examples/donation/work/ada_usd_price.encoded
/config/workspace/repo/helios-examples/donation/work/admin-utxo-collateral-val
id.json /config/workspace/repo/helios-examples/donation/work/admin-utxo.json
/config/workspace/repo/helios-examples/donation/work/admin-utxo-valid.json
/config/workspace/repo/helios-examples/donation/work/datum-in.json
/config/workspace/repo/helios-examples/donation/work/order_id.encoded
/config/workspace/repo/helios-examples/donation/work/order_utxo_in.txt
/config/workspace/repo/helios-examples/donation/work/pparms.json
/config/workspace/repo/helios-examples/donation/work/validator-utxo.json
+ rm -f '/config/workspace/repo/helios-examples/donation/work-backup/*'
+ cardano-cli query protocol-parameters --testnet-magic 1 --out-file
/config/workspace/repo/helios-examples/donation/work/pparms.json
+
validator_script=/config/workspace/repo/helios-examples/donation/scripts/cardano-cli/preprod/data/donation.plutus
++ cardano-cli address build --payment-script-file
/config/workspace/repo/helios-examples/donation/scripts/cardano-cli/preprod/da
ta/donation.plutus --testnet-magic 1
+
validator_script_addr=addr_test1wr3m0vrrccxygtmexw7ur7vujjz5gqg4fjn0k2sjsjn04
sdckk0k
+
redeemer_file_path=/config/workspace/repo/helios-examples/donation/scripts/car
dano-cli/preprod/data/redeemer-spend.json

```

```

++ cat /config/workspace/repo/helios-examples/.keys/admin/key.pkh
+ admin_pkh=b9abcf6867519e28042048aa11207214a52e6d5d3288b752d1c27682
++ cardano-cli address build --testnet-magic 1 --payment-verification-key-file
/config/workspace/repo/helios-examples/.keys/admin/key.vkey
+
admin_utxo_addr=addr_test1vzu6hnmgvageu2qyypy25yfqwg22tndt5eg3d6j68p8dqspgdxn
7
+ cardano-cli query utxo --address
addr_test1vzu6hnmgvageu2qyypy25yfqwg22tndt5eg3d6j68p8dqspgdxn7 --cardano-mode
--testnet-magic 1 --out-file
/config/workspace/repo/helios-examples/donation/work/admin-utxo.json
+ cat /config/workspace/repo/helios-examples/donation/work/admin-utxo.json
+ jq -r 'to_entries[] | select(.value.value.lovelace > 5000000) | .key'
+ readarray admin_utxo_valid_array
++ echo c3b2f3721139c7d38885f012bab6cae0cff96a405c14a228fe382f6b7b21f074#2
++ tr -d '\n'
+
admin_utxo_in=c3b2f3721139c7d38885f012bab6cae0cff96a405c14a228fe382f6b7b21f074
#2
+ jq -r 'to_entries[] | select(.value.value.lovelace == 5000000) | .key'
+ cat /config/workspace/repo/helios-examples/donation/work/admin-utxo.json
+ readarray admin_utxo_valid_array
++ echo 5463bf9f7b1d33045dcdbba0cb1b9ed950a9b40c853a5051e08ed23788f2ead9#0
++ tr -d '\n'
+
admin_utxo_collateral_in=5463bf9f7b1d33045dcdbba0cb1b9ed950a9b40c853a5051e08ed
23788f2ead9#0
+ readarray black_list_utxo_array
+ cardano-cli query utxo --address
addr_test1wr3m0vrrccxygtmexw7ur7vujjz5gqg4fjn0k2sjsjn04sdckk0k
--testnet-magic 1 --out-file
/config/workspace/repo/helios-examples/donation/work/validator-utxo.json
+ cat /config/workspace/repo/helios-examples/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
'31b56f7b696a966aa3ada8a7e7a2cf6d4612f096735cf14a4d60fa56b319d4c7#0
'

++ echo 31b56f7b696a966aa3ada8a7e7a2cf6d4612f096735cf14a4d60fa56b319d4c7#0
++ tr -d '\n'
+
order_utxo_in=31b56f7b696a966aa3ada8a7e7a2cf6d4612f096735cf14a4d60fa56b319d4c7
#0
+ break
+ '[' -z 31b56f7b696a966aa3ada8a7e7a2cf6d4612f096735cf14a4d60fa56b319d4c7#0
']'
++ jq -r 'to_entries[]
| select(.key ==
"31b56f7b696a966aa3ada8a7e7a2cf6d4612f096735cf14a4d60fa56b319d4c7#0")
| .value.inlineDatum '
/config/workspace/repo/helios-examples/donation/work/validator-utxo.json
+ order_datum_in='{
  "list": [
    {
      "int": 131140000
    },
    {
      "bytes": "35323437343332343931323837"
    },
    {
      "bytes": "302e3338313237"
    }
  ]
}'
+ echo -n '{
  "list": [
    {
      "int": 131140000
    },
    {
      "bytes": "35323437343332343931323837"
    },
    {
      "bytes": "302e3338313237"
    }
  ]
}'
```

```

        }
    ]
}'
++ jq -r '.list[0].int'
/config/workspace/repo/helios-examples/donation/work/datum-in.json
+ order_ada=13114000
++ jq -r '.list[1].bytes'
/config/workspace/repo/helios-examples/donation/work/datum-in.json
+ order_id_encoded=35323437343332343931323837
+ echo -n 35323437343332343931323837
++ python3 hexdump.py -r
/config/workspace/repo/helios-examples/donation/work/order_id.encoded
+ order_id=5247432491287
++ jq -r '.list[2].bytes'
/config/workspace/repo/helios-examples/donation/work/datum-in.json
+ ada_usd_price_encoded=302e3338313237
+ echo -n 302e3338313237
++ python3 hexdump.py -r
/config/workspace/repo/helios-examples/donation/work/ada_usd_price.encoded
+ ada_usd_price=0.38127
+ merchant_split=90
+ donor_split=10
+ donor_ada_amount=13114000
+ (( 13114000 < 1000000 ))
+ donor_ada=13114000
+ merchant_ada=118026000
++ date +%Y/%m/%d-%H:%M:%S
+ now=2023/01/27-17:04:34
++ curl -H 'X-Shopify-Access-Token: shpat_XXX'
https://test-payment-poc.myshopify.com//admin/api/2022-10/orders/5247432491287
.json
++ 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  17323       0 --:--:-- --:--:-- --:--:-- 17340
+ shopify_order_amount=50.00
++ python3 -c 'print(round((50.00 / 0.38127), 3))'
+ shopify_order_ada=131.141
++ python3 -c 'print(131.141 * 1000000)'
+ shopify_order_lovelace=131140999.99999999
+ shopify_order_ada_truncated=131140999

```

```

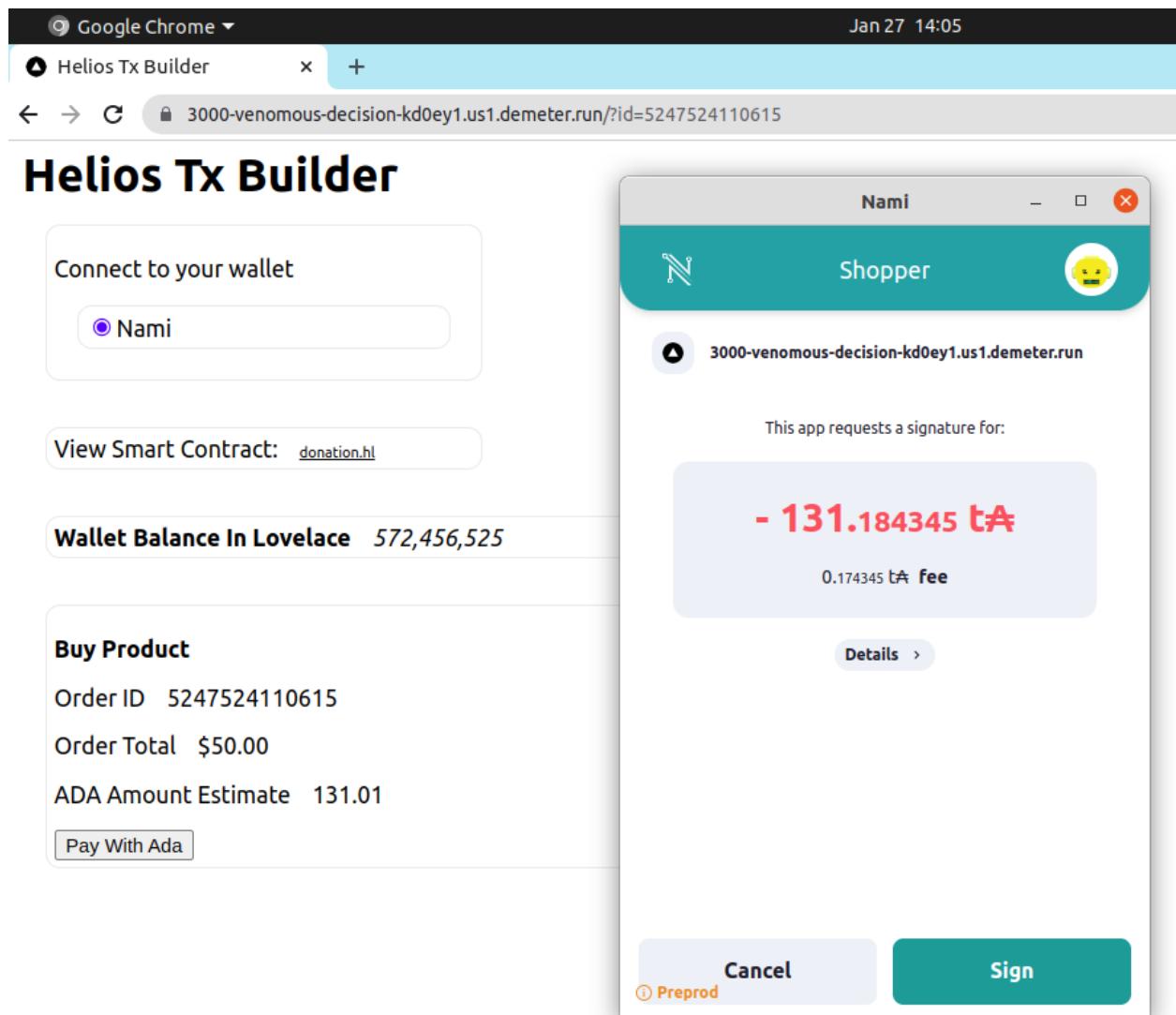
+ difference=-999
++ echo 999
+ difference_abs=999
+ (( 999 > 10000 ))
+ metadata='{
  "1" : {
    "order_detail" : {
      "date" : "2023/01/27-17:04:34",
      "donation_ada_amount" : "13114000",
      "donation_split" : "10%",
      "order_id" : "5247432491287",
      "order_ada_amount" : "131140000",
      "ada_usd_price" : "0.38127",
      "version" : "0.1"
    }
  }
}'
+ echo '{"1" : {"order_detail" : {"date" :
  "2023/01/27-17:04:34", "donation_ada_amount" :
  "13114000", "donation_split" :
  "10%", "order_id" :
  "5247432491287", "order_ada_amount" :
  "131140000", "ada_usd_price" :
  "0.38127", "version" :
  "0.1"} } }'
+
metadata_file_path=/config/workspace/repo/helios-examples/donation/scripts/cardano-cli/preprod/data/donation-spend-metadata.json
+ cardano-cli transaction build --babbage-era --cardano-mode --testnet-magic 1
--change-address
addr_test1vzu6hnmgvageu2qyypy25yfqwg222tn5eg3d6j68p8dqspgdxn7
--tx-in-collateral
5463bf9f7b1d33045dcdbba0cb1b9ed950a9b40c853a5051e08ed23788f2ead9#0 --tx-in
c3b2f3721139c7d38885f012bab6cae0cff96a405c14a228fe382f6b7b21f074#2 --tx-in
31b56f7b696a966aa3ada8a7e7a2cf6d4612f096735cf14a4d60fa56b319d4c7#0
--spending-tx-in-reference
d6c4a585ffbbdcc371a3472e829133643c9dfa4f1b61a4ccb8e75fd4480c22ce#0
--spending-plutus-script-v2 --spending-reference-tx-in-inline-datum-present
--spending-reference-tx-in-redeemer-file
/config/workspace/repo/helios-examples/donation/scripts/cardano-cli/preprod/data/redeemer-spend.json --tx-out
addr_test1vzetpfww4aaunft0ucvcrxugj8nt4lhltksktya0rx0uh48cqghjfg+118026000
--tx-out
addr_test1vq7k907l7e59t52skm8e0ezsnmmc7h4xy30kg2klwc5n8rqug2pds+13114000
--required-signer-hash

```

```
b9abcf6867519e28042048aa11207214a52e6d5d3288b752d1c27682
--protocol-params-file
/config/workspace/repo/helios-examples/donation/work/pparms.json
--metadata-json-file
/config/workspace/repo/helios-examples/donation/scripts/cardano-cli/preprod/da
ta/donation-spend-metadata.json --out-file
/config/workspace/repo/helios-examples/donation/work/spend-tx-alonzo.body
Command failed: transaction build  Error: The following scripts have execution
failures:
the script for transaction input 0 (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 use of 'error'.
Script debugging logs: DN1: true
DN2: false
```

# Events

## Positive Test Cases



Google Chrome ▾ Jan 27 14:06

Helios Tx Builder +

3000-venomous-decision-kd0ey1.us1.demeter.run/?id=5247524110615

# Helios Tx Builder

Connect to your wallet

Nami

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

**Transaction Success!!!**

TxId [bfffa06ad81f2527fdd48e25086339163cdd5fe60fac36cf3a59f32f4a580f05](#)

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

Google Chrome ▾ Jan 27 14:07

Helios Tx Builder x Transaction bffa06ad81f2527fd48e25086339163cd5f60fac36cf3a59f32f4a580f05

preprod.explorer.io/tx/bffa06ad81f2527fd48e25086339163cd5f60fac36cf3a59f32f4a580f05

Cexplorer.io prepred

Transactions / Transaction bffa06ad81f2527fd4...

Transaction detail

Hash: bffa06ad81f2527fd48e25086339163cd5f60fac36cf3a59f32f4a580f05

Date	now
Epoch	48
Block	564,983
Slot	19,163,210 (epoch slot 68,810)
Total Output	572.28 ₪ (\$ 217.9) 0.00046
Fee	0.17 ₪ (\$ 0)
Outputs	2

0/8 Assurance

0.32kB (0.32kB) Transaction Size  
this tx 30% other txs in block 70%

1.07kB (4) Block Size (TX Count)  
available 99%

Minted by [IRF] IRF PreProd

Content

now	# bffa06ad81_80f05	Total 572.28A
500A	addr_test1...pmr54	441.27A
72.46A	addr_test1...pmr54	131.01A
		-131.9A \$ 49 B 0.000217

Google Chrome ▾ Jan 27 14:14

TxPipe Console x

console.us1.demeter.run/smart-contract-book-e626a0/cardano-webhooks/pathetic-accident-wa8s4n/logs

demeter.run > Smart Contracts PREPROD L

```
[2023-01-27T18:55:04Z DEBUG oura::sources::n2c::run] found 1 points with required min depth
[2023-01-27T18:55:04Z INFO oura::sources::n2c::run] rollback buffer state, size: 0, oldest: None, latest: None
[2023-01-27T18:55:04Z DEBUG pallas_multiplexer::bearers] parsed inbound msg, protocol id: 5, ts: 2506582375, payload length: 2
[2023-01-27T18:55:04Z DEBUG pallas_miniprotocols::chainsync::agents] reached tip, await reply
[2023-01-27T18:55:04Z DEBUG pallas_miniprotocols::chainsync::agents] tip was reached
[2023-01-27T18:55:14Z DEBUG pallas_multiplexer::bearers] parsed inbound msg, protocol id: 5, ts: 2516990944, payload length: 1209
[2023-01-27T18:55:14Z DEBUG pallas_miniprotocols::chainsync::agents] rolling forward
[2023-01-27T18:55:14Z INFO oura::sources::n2c::run] rolling forward to point (19162514, fff5be46240cbb59cb5ab166eabf0347105681de03164eaa27ec00a
[2023-01-27T18:55:14Z DEBUG oura::sources::n2c::run] found 1 points with required min depth
[2023-01-27T18:55:14Z INFO oura::sources::n2c::run] rollback buffer state, size: 0, oldest: None, latest: None
[2023-01-27T18:55:14Z DEBUG request::connect] starting new connection: https://3000-venomous-decision-kd0ey1.us1.demeter.run/
[2023-01-27T18:55:14Z DEBUG hyper::client::connect::dns] resolving host="3000-venomous-decision-kd0ey1.us1.demeter.run"
[2023-01-27T18:55:14Z DEBUG pallas_multiplexer::bearers] parsed inbound msg, protocol id: 5, ts: 2516991852, payload length: 2
[2023-01-27T18:55:14Z DEBUG pallas_miniprotocols::chainsync::agents] reached tip, await reply
[2023-01-27T18:55:14Z DEBUG pallas_miniprotocols::chainsync::agents] tip was reached
[2023-01-27T18:55:14Z DEBUG hyper::client::connect::http] connecting to 34.213.123.117:443
[2023-01-27T18:55:14Z DEBUG hyper::client::connect::http] connected to 34.213.123.117:443
[2023-01-27T18:55:17Z DEBUG hyper::proto::h1::io] flushed 828 bytes
[2023-01-27T18:55:17Z DEBUG hyper::proto::h1::io] parsed 8 headers
[2023-01-27T18:55:17Z DEBUG hyper::proto::h1::conn] incoming body is content-length (82 bytes)
[2023-01-27T18:55:17Z DEBUG hyper::proto::h1::conn] incoming body completed
[2023-01-27T18:55:17Z DEBUG hyper::client::pool] pooling idle connection for ("https", 3000-venomous-decision-kd0ey1.us1.demeter.run)
[2023-01-27T18:55:21Z DEBUG pallas_multiplexer::bearers] parsed inbound msg, protocol id: 5, ts: 2524020673, payload length: 1645
[2023-01-27T18:55:21Z DEBUG pallas_miniprotocols::chainsync::agents] rolling forward
[2023-01-27T18:55:21Z INFO oura::sources::n2c::run] rolling forward to point (19162521, f1468ce03d540d885bd76d0bbbb9cab1472dba6ed3fbbae6ec2e8d6
[2023-01-27T18:55:21Z DEBUG oura::sources::n2c::run] found 1 points with required min depth
[2023-01-27T18:55:21Z INFO oura::sources::n2c::run] rollback buffer state, size: 0, oldest: None, latest: None
[2023-01-27T18:55:21Z DEBUG pallas_multiplexer::bearers] parsed inbound msg, protocol id: 5, ts: 2524021518, payload length: 2
[2023-01-27T18:55:21Z DEBUG pallas_miniprotocols::chainsync::agents] reached tip, await reply
[2023-01-27T18:55:21Z DEBUG pallas_miniprotocols::chainsync::agents] tip was reached
[2023-01-27T18:55:30Z DEBUG pallas_multiplexer::bearers] parsed inbound msg, protocol id: 5, ts: 2532806000, payload length: 916
```

Google Chrome ▾ Jan 27 14:15

Helios Tx Builder x TXs Address addr\_test1wpgqq4ky6wyta59wncrgw8e3kcj5mar8fu5qunfy5endv7grf842k/x#data

Cexplorer.io preprod

Address Detail > TXs

Address: addr\_test1wpgqq4ky6wyta59wncrgw8e3kcj5mar8fu5qunfy5endv7grf842k

Detail TXs Assets UTXO

2m29s ago # 9b40d19f33..4c430 Total 558.15 A

42737A ↗ addr\_test1..gdxn7 131.01A ↗ addr\_test1..f842k 117.46A ↗ addr\_test1..g2pds 13.05A ↗ addr\_test1..ghjfg

8m20s ago # bfaf06ad81..80f05 Total 572.28 A

500A ↗ addr\_test1..pmr54 72.46A ↗ addr\_test1..pmr54 441.27A ↗ addr\_test1..pmr54 131.01A ↗ addr\_test1..f842k

Share this

Address tag

Metadata

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Helios Tx Builder x Metadata Transaction 5b... x

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Hash: 5b40d19f33ceea6f0e576217920c66088d1c1e9c982e6ef3b71ab6b018e4c430

Date 3m7s ago

Epoch 48

Block 564,996

Slot 19,163,561 (epoch slot 69,161)

Total Output 558.15 A (\$ 212.5 0.00922)

Fee 0.23 A (\$ 0)

Outputs 3

7/8 Assurance

0.7kB (0.7kB) Transaction Size

0.7kB (1) Block Size (TX Count)

Minted by [ADACT] ADA Capital

Content Metadata ()

Label	Data
1	{ "order_detail": [ {"date": "2023/01/27-19:12:08", "version": "0.1", "order_id": "52476241108115", "ada_usd_price": "0.38312", "donation_split": "10%", "order_ada_amount": "138518000", "donation_ada_amount": "138518000" ] }

## Negative Test Case - Invalid Tx sent to contract address

The screenshot shows a Chrome browser window with the URL [https://preprod.explorer.io/address/addr\\_test1wpgqq4ky6wyta59wncgw8e3kcj5mar8fu5qunfy5endv7grf842k/tx#data](https://preprod.explorer.io/address/addr_test1wpgqq4ky6wyta59wncgw8e3kcj5mar8fu5qunfy5endv7grf842k/tx#data). The page title is "Builder TXs Address addr\_test1wpgqq4ky6wyta59wncgw8e3kcj5mar8fu5qunfy5endv7grf842k". The main content is titled "Address Detail > TXs" and shows a table of transactions. One transaction is highlighted with a red border:

Time Ago	Hash	Inputs	Outputs
16s ago	# 32c9a2c5c5..c4759	Total: 3.82A 16A (addr_test1..3w66e) 115A (addr_test1..3w66e) 105A (addr_test1..f842k)	16A (addr_test1..3w66e) 115A (addr_test1..3w66e) 105A (addr_test1..f842k)

The transaction hash is `32c9a2c5c5..c4759`.

The screenshot shows a Postman interface with the URL <http://localhost:3000/api/events>. The method is set to POST. The request body is a JSON object:

```
2 {"context": {}}
3 "block_hash": "3f2669d3e70f7649e698cf8f0db2312b09c3619d23632c3069b850c4ad5e7f88",
4 "block_number": 276506,
5 "slot": 5767422,
6 "timestamp": 1665745362,
7 "tx_idx": 0,
8 "tx_hash": "32c9a2c5c55daf48be9d14a857b12ba4acfbab9ac2240c810b7a70186f8c4759",
9 "input_idx": null,
```

The response status is 200 OK, with a timestamp of 928 ms and a size of 358 B. The response body contains the error message: "Tx Failed: 32c9a2c5c55daf48be9d14a857b12ba4acfbab9ac2240c810b7a70186f8c4759 0"

