



PROOF POSIT

Robinhood Chain failed transactions

Nearly One in Five User Transactions Fails on Robinhood Chain, and Still Pays - second edition

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PROOF POSIT PP-006

MASTHEAD

Field	Value
Proof Posit	PP-006
Subject	Robinhood Chain (chain ID 4663)
Title	Nearly One in Five User Transactions Fails on Robinhood Chain, and Still Pays: 1,551.08 ETH in Fees from 119,984,049 Failed Transactions
Date	2026-09-29
Measurement window	Genesis (block 0) to block 62,471,946 (2026-09-14 03:00:01 UTC)
Pinne d at	Block 62,471,946 · hash 0x6be6970fbf6ebda579ae87bad4df04a3b7dd14486a40508a747d079fbef462eb
Chain	Robinhood Chain, chain ID 4663 (an Arbitrum Orbit chain settling to Ethereum)
Surface	Index: Glass Hull's own full-history index (A1), whose population is proven identical to our archive extraction. No third-party endpoint was used.
Method hash	f31bcd7662a6be6f2bd64c96db297e343c7c9ca0b0d29edcf0b7f27e181631a1 (Glass Hull ledger, kind-3 3147512) · Method frozen 2026-09-25 14:27:04Z after exploratory measurement; the sealed figures are the re-run under the frozen method.
Re-run hash	Five ranges: 3a8a1838fdb4a0e5ffd0bb491b596a50234998944307004bbf4637edca122003 · 9bb7065fc9a3151dd8d0baa4994a9b236858d451a1638aaf0ba1338bb5a2d1e6 · c20040b9050994bc02dc6ada4a5ca6244d22f63694d3647824a8a7f7d4ffe705 · afe1cfc145f1b79a7ebcfee8243de57bd3ed8a79ae320e09260cca150a66db98 · 669cfd23a9c7418bec2fd84a70f28f0434e192fb171fc7c56d70373c589c74e · refute: 02dd95e4d55ef659ec1d49d5c06a788993ef3899a983d43d959b00278edf84c3
Super sedes / Corrects	Updates the earlier public count through block 55,927,945 (105,012,844 failed), which covered a shorter window
Subject notice	Subject not contacted
How to cite	Glass Hull, Proof Posit PP-006, "Nearly One in Five User Transactions Fails on Robinhood Chain, and Still Pays," Jet Fyul Dynamics LLC (2026), gh.jetfyul.com/posits/PP-006/

I. SUMMARY

From its first block to 14 September 2026, Robinhood Chain processed **653,008,422 user transactions**. Of these, **119,984,049 failed, or 18.374%**. The chain also recorded 62,710,451 system transactions of its own; none failed, and none used gas.

A failed transaction still pays for the computation it used. Together, the failed transactions paid **1,551,080,321,319,255,460,000 wei, about 1,551.08 ETH**, in fees.

Two independent measurements agree on all three figures exactly: the user-transaction count, the failed count, and the fees to the wei.

II. METRIC OBJECTIVE

What we measured. Over the chain's whole history to the pinned block:

- how many transactions failed
- what fees those failed transactions paid

Why it matters. Failed transactions are a cost borne by users and a source of fee revenue for the network. That cost appears in no published figure we could find.

Definitions. A **user transaction** is any transaction other than the chain's own system transactions (receipt type 106). A transaction has **failed** when its receipt records failure (status 0). The **fee** is the gas the transaction used multiplied by the effective price it paid per unit of gas, summed exactly in wei.

III. FINDINGS

Measure	Value
User transactions, genesis to block 62,471,946	653,008,422
Failed user transactions	119,984,049 (18.374%)
System transactions (chain-internal)	62,710,451 (none failed; zero gas)
All transactions, for reference	715,718,873 (failed share 16.764%)
Fees paid by failed transactions	1,551,080,321,319,255,460,000 wei $\approx$ 1,551.08 ETH

By block range (failed count · fees in wei):

Block range	Failed	Fees (wei)
0 – 19,999,999	32,594,667	212,060,710,844,437,370,000
20,000,000 – 34,999,999	38,719,737	178,878,750,922,993,954,000
35,000,000 – 43,999,999	13,524,416	45,585,008,478,580,212,000
44,000,000 – 52,999,999	16,117,253	356,169,485,660,238,432,000

Block range	Failed	Fees (wei)
53,000,000 – 62,471,946	19,027,976	758,386,365,413,005,492,000

How the fees break down under the chain's revenue split. Every settlement to the Arbitrum Expansion Program that we measured split exactly 90% to the network and 10% to Arbitrum's ecosystem (Proof Posit PP-003). We state no allocation beyond what that sealed record shows.

III.i PROOFS (ABRIDGED)

Pass arm. Failed transactions and their fees were summed in five block ranges covering the whole window. Each range carries its own re-run record.

- Blocks 0 – 19,999,999: re-run 3a8a1838fdb4a0e5ffd0bb491b596a50234998944307004bbf4637edca122003
- Blocks 20,000,000 – 34,999,999: re-run
9bb7065fc9a3151dd8d0baa4994a9b236858d451a1638aaf0ba1338bb5a2d1e6
- Blocks 35,000,000 – 43,999,999: re-run
c20040b9050994bc02dc6ada4a5ca6244d22f63694d3647824a8a7f7d4ffe705
- Blocks 44,000,000 – 52,999,999: re-run
afe1cfc145f1b79a7ebcfee8243de57bd3ed8a79ae320e09260cca150a66db98
- Blocks 53,000,000 – 62,471,946: re-run
669cfd23a9c7418bec2fd84a70f28f0434e192fb171fc7c56d70373c589c74e
- User and system split: re-run 91c1eaf41047134087c1ef1d434e926197df8c5e27c2d1e54f3e1561333fdb3

Refute arm. An independent tally of every transaction in every block, minus the successful ones, gives **119,984,049** failed: identical to the pass arm. The fee computation was also checked at a sample block against the chain's recorded per-block fees, and matched exactly.

Second route. A separate measurement by a different route reached the same fee total to the wei (Glass Hull record 3121915).

Population. Every block from genesis to 62,471,946, with coverage proven continuous and no missing range.

IV. LIMITS OF OBSERVATION

1. **Why a transaction failed is not measured here.** Causes include slippage limits, expired quotes, competing transactions and contract rules. This finding counts outcomes, not causes.
2. **ETH is stated at 18 decimals, rounded for display.** The exact figure in wei governs. No dollar value is stated.
3. **Some users paid nothing themselves.** Robinhood's promotion covers network fees on eligible Robinhood Wallet swaps, and sponsors (paymasters) cover gas for some programmable accounts. The fees counted here were paid to the network regardless of who funded them.
4. **The window ends at the pinned block.** Later activity is not included.

V. CONCLUSION

Nearly one user transaction in five on Robinhood Chain fails (18.374%). Failure is not free: failed transactions have paid about 1,551.08 ETH in fees over the chain's life to 14 September 2026, exactly counted and independently confirmed.

This finding measures outcomes. It draws no conclusion about any party's systems or intentions.

VI. GLOSSARY AND DEFINITIONS

- **Failed transaction.** A transaction whose receipt records failure (status 0). It is still included in a block and still pays for gas used.
 - **Fee.** Gas used $\times$ effective gas price, in wei. 10^{18} wei = 1 ETH.
 - **Pinned height.** The last block included, identified by number *and* hash.
 - **Both arms.** The pass arm shows the result. The refute arm shows the same method would have returned the opposite result had it been true.
 - **Re-run hash.** Confirms a result obtained with the method; the method is in The Full Proof.
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VII. ADDITIONAL RESOURCES

If you would like to read more of our series, Proof Posits, you may go [here](#). And if you would like to test yourself against a locked call, our prediction series — The Hull Against the Machine — seals each prediction before the event and reveals it on a timer. Our latest are [here](#). Full readings are published as Full Proofs: some free, others licensed. The Full Proof for this finding, with the complete method, is free [here](#).

SEAL AND VALIDATION

Seal record: this document's seal — its ledger event, both hardware witnesses and its Bitcoin anchor — is recorded on its verification page, <https://gh.jetfyul.com/v/JFD-20260929-PP-00003>, and in its certificate of authenticity, JFD-20260929-CERT-00003, not in these pages.

To validate:

1. Compute the SHA-256 of this document.
2. Look up the ledger event.
3. Verify both hardware signatures.
4. Verify the Bitcoin anchor.
5. If you prefer, verify on Robinhood Chain itself (P-256 at 0x100, RIP-7212).
6. Reproduce with the method in The Full Proof, which is free for this finding.

If your bytes differ from ours, kindly let us know publicly or privately. A difference is still a finding.

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