# Tipster Coin: Revolutionizing Blockchain Performance with Time-Driven Innovation and User Rewards v1.18 x

## Legal Disclaimer

Nothing in this White Paper constitutes an offer to **sell**, or the solicitation of an offer to **buy**, any tokens or securities. This document is for informational purposes only and outlines the vision and technical framework of **Tipster Coin**.

### 1. Introduction

**Tipster Coin** is a high-performance blockchain designed to deliver a fault-tolerant, replicated state machine with a focus on speed, scalability, and user incentives. Like many blockchains, it operates without reliance on a centralized clock, but Tipster Coin introduces a novel approach to timekeeping through **Proof of History (PoH)**, ensuring verifiable event ordering and passage of time. Built on a foundation similar to leading blockchains, Tipster Coin enhances user participation with unique features like mining acceleration cards and an airdrop-based commission system, setting it apart in the crypto ecosystem. With a fixed supply of **50 billion coins**, Tipster Coin aims to create a robust and accessible digital economy, launching on every major crypto exchange to ensure widespread availability.

### 2. Outline

This whitepaper is structured as follows:
Section 3: Network Design
Section 4: Proof of History (PoH)
Section 5: Proof of Stake (PoS) Consensus
Section 6: Streaming Proof of Replication (PoRep)
Section 7: Tipster Coin Enhancements (Mining Cards & Airdrop Commissions)
Section 8: System Architecture & Performance

**3. Network Design**

**Tipster Coin** operates with a dynamic network of nodes:

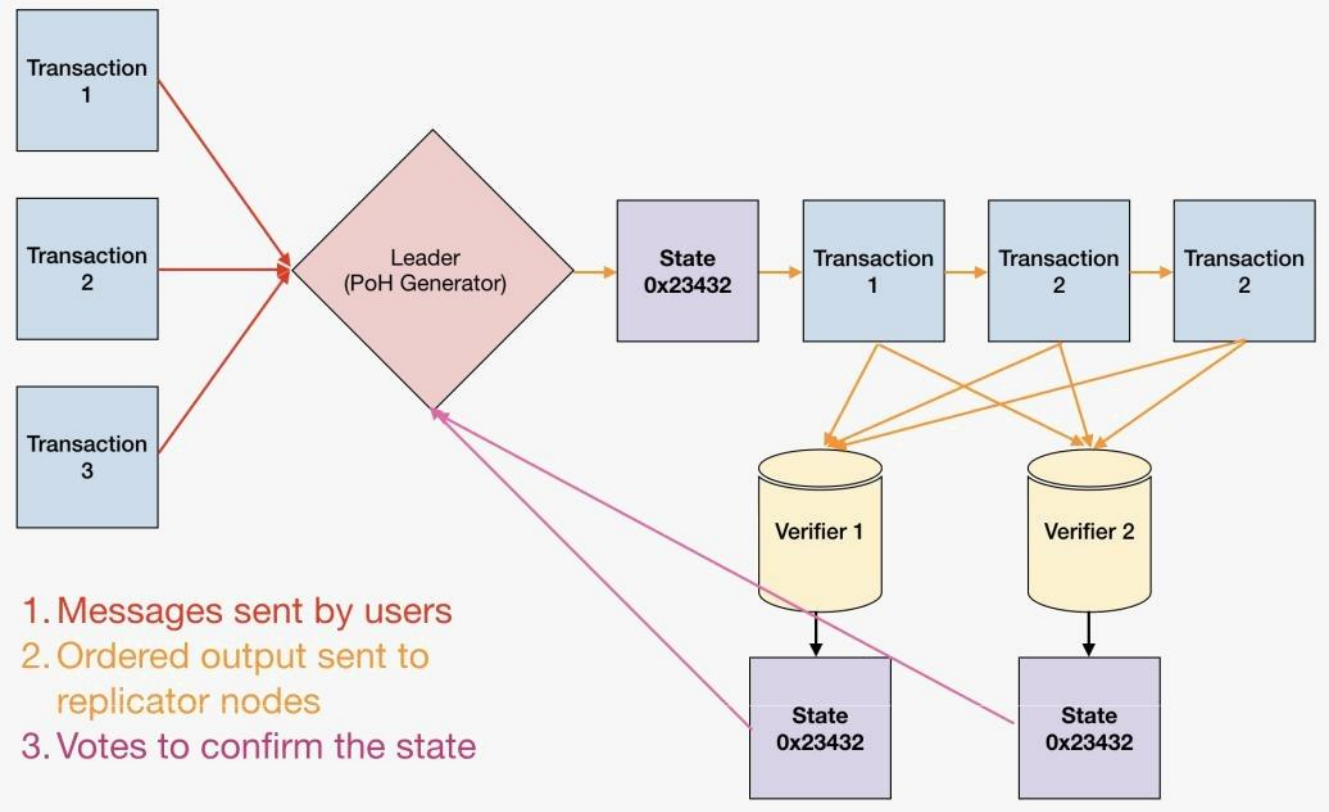


Figure 3: Proof of History (PoH)

**Leader:** A single node elected as the Leader generates the PoH sequence, ordering transactions for maximum throughput. It processes transactions in RAM, signs the resulting state, and broadcasts it to Verifiers.

**Verifiers:** These nodes replicate the state, validate transactions, and vote on the Leader's output via the PoS consensus. Each Verifier has the hardware capability to become a Leader.

In a non-partitioned state, one Leader governs the network. If a partition occurs, Consistency is prioritized over Availability per the CAP theorem, with a recovery mechanism detailed in Section 5.12.

**4. Proof of History (PoH)**

**4.1 Description**

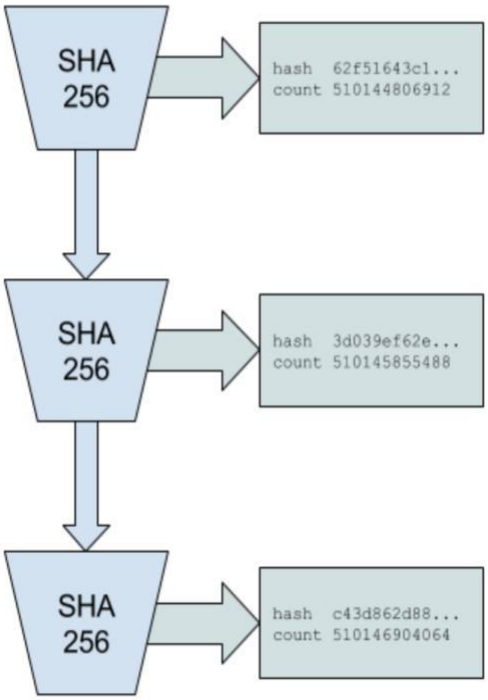

Figure 4.1: Proof of History (PoH)

PoH is a cryptographic sequence that proves time has passed between events. A Leader runs a collision-resistant hash function (e.g., SHA-256) sequentially, using each output as the next input, and records the count and state periodically.

**This creates a verifiable timeline:**

**Example:** Starting with a random value (e.g., “Tipster Coin Launch”), the sequence might produce `hash1 → hash2 → hash3`, with each step taking real time.

**Data Time stamping:** Events (e.g., transactions) are appended into the sequence, proving they occurred before the next hash.

### 4.2 Verification

Verifiers can parallelize validation across multiple cores, making it faster to confirm the sequence than to generate it. This scalability ensures Tipster Coin can handle high transaction volumes.

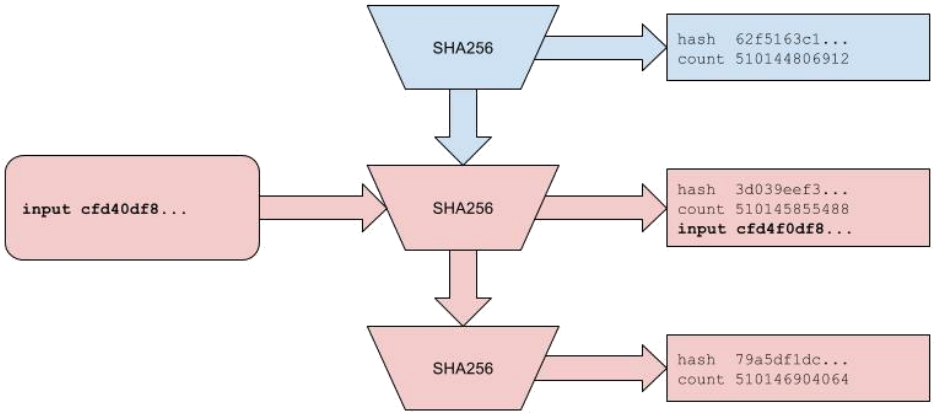


Figure 4.2: Verification

### 5. Proof of Stake (PoS) Consensus

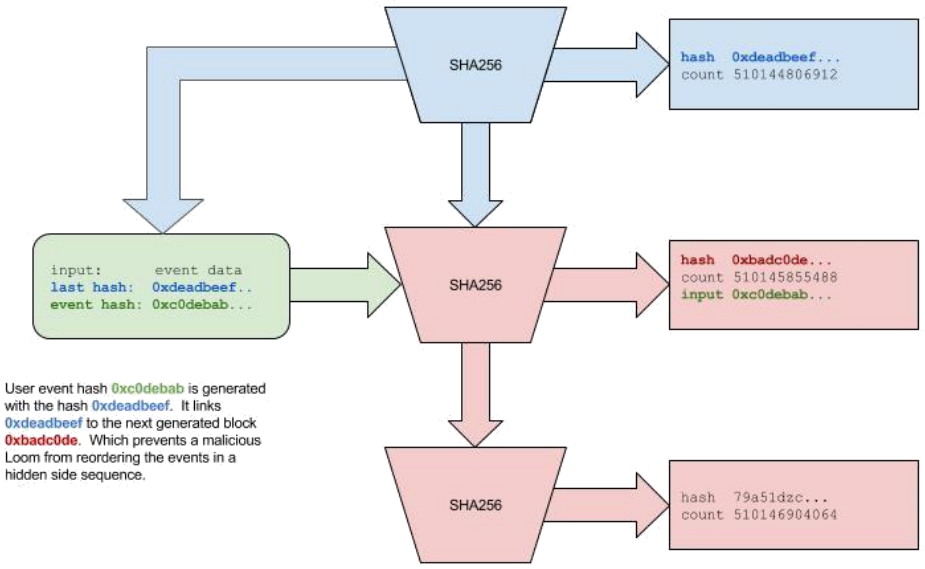


Figure 5: Proof of Stake (PoS) Consensus

### 5.1 Description

Tipster Coin uses PoS to elect Leaders and confirm the PoH sequence. Validators “bond” coins as collateral, voting on the state hash produced by the Leader. A super-majority (2/3 of bonded stake) confirms consensus.

### 5.2 Key Features

**Bonding/Unbonding:** Validators lock coins to participate; missing votes mark coins as stale, adjustable dynamically during partitions.

**Slashing:** Voting on conflicting sequences destroys bonded coins, deterring bad actors.
Elections: The validator with the highest stake (or tiebreaker via public key) becomes the Leader (see Section 5.6 of Solana’s paper for details).

### 5.3 Partition Recovery

In large partitions, **Tipster Coin** slows the unstaking of unavailable validators, allowing the larger network to regain a super-majority faster, ensuring resilience.

## 6. Streaming Proof of Replication (PoRep)

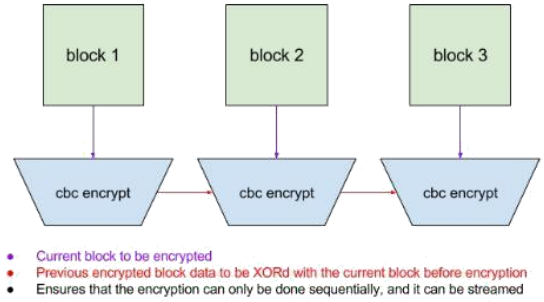


Figure 6: Streaming Proof of Replication 1

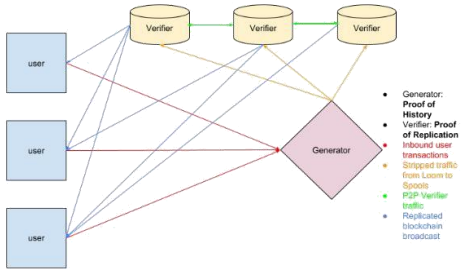


Figure 6: Streaming Proof of Replication 2

### 6.1 Description
PoRep ensures nodes store the blockchain history efficiently. Replicators encrypt data using a PoH-derived key, periodically proving storage via random byte sampling and Merkle roots. This ties storage to time, enhancing availability without heavy consensus overhead.

## 7. Tipster Coin Enhancements
**Tipster Coin** mirrors many operational system like others blockchain based crypto currency—high throughput, PoH-driven ordering, and PoS consensus—but introduces two unique features to enrich the ecosystem:

### 7.1 Mining Acceleration Cards
Unlike traditional mining, **Tipster Coin** requires clients to purchase **Mining Cards** to participate in transaction validation or PoH generation at an accelerated rate:

**Purpose:** These cards unlock higher hash rates or priority in Leader elections, boosting efficiency for dedicated users.

**Mechanism:** Cards are tied to a user's wallet and registered in the PoH sequence as a transaction. Without a card, mining operates at a baseline speed, ensuring accessibility while rewarding investment.

**Benefit:** Clients with cards contribute more to network security and earn proportional rewards, creating a tiered participation model.

### 7.2 Airdrop Network Commission
Tipster Coin introduces an **Airdrop Commission System**.
How It Works: Clients completing airdrop tasks (e.g., social media promotion, referrals) earn an Extra Commission on top of standard transaction fees or staking rewards.

**Structure: Airdrop** completions are logged as PoH events, verified by the network, and rewarded with a percentage-based commission (e.g., 1-5% of fees).

**Advantage:** This incentivizes community growth and engagement, driving adoption without relying solely on market speculation.

These enhancements make **Tipster Coin** a hybrid of performance and participation, blending others crypto currencies technical prowess with user-centric incentives.

**8. System Architecture & Performance**

**8.1 Components**

**Leader:** Generates PoH and signs state, enhanced by Mining Cards for speed.

**Verifiers/Validators:** Replicate state and vote, with commissions boosted via **Airdrops**.

**State:** A hash table of user accounts and bonds, optimized for memory efficiency.

**8.2 Performance Limits**

**Network:** Up to ~710k transactions per second (tps) on a 1gbps connection.
**Computation:** GPU-parallelized verification supports high throughput.
**Memory:** Scales to billions of accounts with minimal latency.

**8.3 Smart Contracts**

**Tipster Coin** supports eBPF-based smart contracts, executable on GPUs for high performance, with intrinsics batched for efficiency—mirroring other best cryptocurencies approach but amplified by Mining Card acceleration.

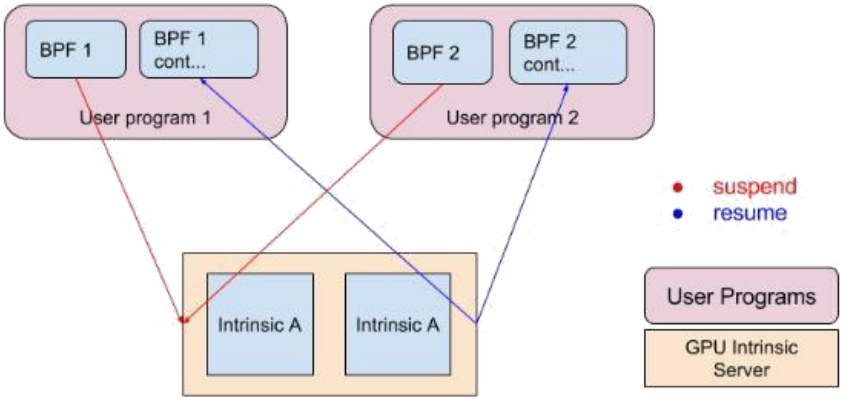


Figure 8.3: Executing BPF programs.

**Conclusion**

**Tipster Coin** builds on proven blockchain innovations, delivering like btc, solana performance with a twist: Mining Cards empower dedicated users, while Airdrop Commissions reward community effort. Together, these features create a fast, scalable, and engaging ecosystem ready to redefine decentralized networks.