Libre Decentralization: Core

Libre · Follow

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Dinos are "Decentralized in Name Only"

<u>Libre</u>'s mission is to empower people with the freedom to access a financial system that is easy to use and easy to build upon. Over the past year, we have launched an ecosystem with highly adaptable and robust tools to enable the building of that system. One of the core requirements for a robust system is

decentralization… Let's explore the difference between Libre and other systems that say that are decentralized, but they are not. Those systems are what we call "dino" (decentralized in name only) — where the nodes, coins, and systems are not widely decentralized and prone to corruptions and failures. We will explain here how Libre shines in terms of Resiliency, Performance, Security and Fair Token Distribution.

Resiliency

Instead of having a centralized entity (such as a bank) the Libre chain has a distributed network of validators around the world validating accounts and transactions — storing all of the data completely publicly. There is no central point of failure.

These validators of Libre run "nodes" that computers executing the Libre Core software. These computers are distributed throughout the world, with new ones coming online often.

The validators are independent entities with real people behind them that you can chat with online or meet if they are in your geographic region. They are normally quite friendly and helpful to developers as well as users.

The purpose of the nodes are to create "blocks" of transactions. A new block of transactions is added every 0.5 seconds.

For security, each node must validating the transactions approved by every other node so there is no chance for double-spending transactions. Validators are incentivized to keep their servers running 24/7/365 — if a validator goes offline, they do not get paid.

Now let's compare to a dino — the TRON network. TRON nodes where over are 36% located in China.

Note: Choosing TRON as the main DINO for this post because it is currently the number one network for usage of USDT stablecoin (Tether).

Performance

The Libre system has very high throughput. It has been stress tested up to 4,000 transactions per second. This makes Libre one of the highest performing blockchains for using Tether (TRON only has 2,000 tps).

To our knowledge, every node on the Libre network operates on high redundancy CPU-optimized server hardware in secure datacenters around the world. There is no single point of failure, and in fact, **there are even backups for the backups** — each validator runs backup nodes and then there are standby nodes ready to jump in if a validator's backups fail.

Security

The Libre Core software is based on the AntelopeIO highly performant and widely-tested open-source framework. We made some tweaks to improve

this framework. For example, Libre features a unique weighted proof-of-stake consensus. The power of your vote is determined by the remaining days that your coins will be staked: the longer you have left before the claim, the more voting power you receive. This math can be viewed in our documentation at https://docs.libre.org.

Fair Token Distribution

The distribution of the governance coin is another important aspect of decentralization, but also fairness. When teams and founders give huge allocations of tokens to themselves or investors for free or at a discount, it's gives those groups complete control over the system and it's completely unfair to everyone else. Libre is different.

Libre has designed a unique mechanism for distributing coins called the "Mint Rush" — where everyone will have the opportunity to "mint" LIBRE. This will result in a coin distribution that is fairly allocated based on the amount of contribution everyone — including the founders — make in BTC.

The concept was inspired by this 2019 article on the concept of a "fair launch" and has taken years of discussion, design, and mathematical + developmental testing. The two main considerations of the Mint Rush design are the length of the distribution and the equality of price during that distribution.

Unlike almost every other blockchain, there is **no coin allocation for teams, founders, or VC investors.** Coins can only be earned through running a validator or by contributing to the Mint Rush. All proceeds from the Mint Rush will be owned by the participants. Let's compare to TRON (a dino) which is pretty similar to many, many other blockchains.

Source: https://research.binance.com/en/projects/tron

In summary, the Libre system design has taken decentralization into consideration at each aspect. We are excited about a future where "dinos" are finally extinct and truly decentralized technology powers adoption!

For more details on the Mint Rush, please see the [Libre documentation](#).

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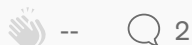whitepaper for a Stable Automated Market...

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