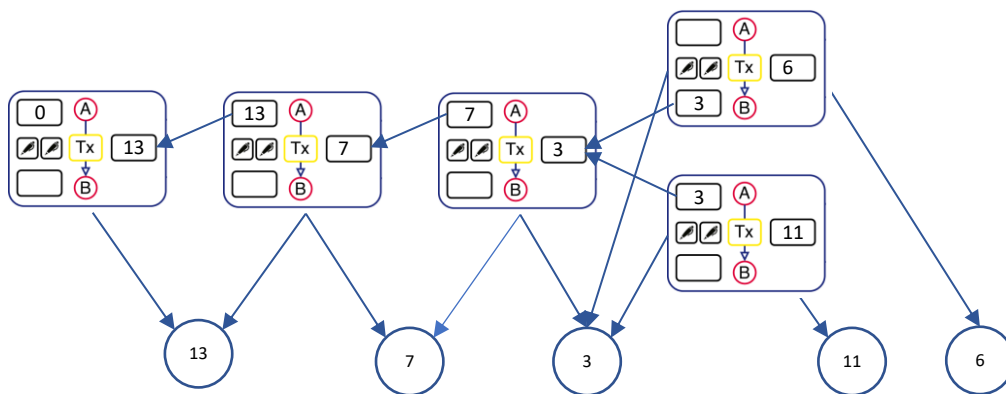


Topics I deem important (in order of importance to Tribler)

Reliable block replication mechanism

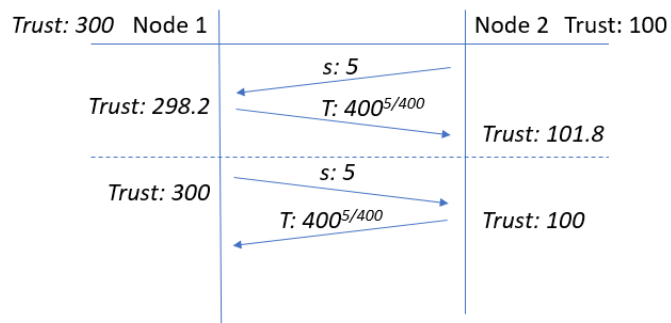
- According to Vadim a missing feature, and would be very valuable
- Was briefly brushed upon in proposal
- Main trick is to use DHT for ID and block look-up (just as Kademia)
 - Use previous-block hash to determine location the block will be pushed
 - Results in at least two copies (for each party one replica)
 - Speeds up forward traversal over chains
 - Use current block's hash to determine location
 - Results in at least one copy of block
 - Enables fast backwards traversal over chains
 - The replication factor can be based on trust
 - Transacting with a lesser trusted or more often offline node? Replicate across more nodes.



- Next to transact can easily detect the fork by looking for the block by the hash '3' in the DHT
- Node 3 could directly detect this
- In case of witnesses, they could detect

Global consensus on a node's trust (with $O(1)$ look-up)

- Includes transitivity of trust
- Total amount of trust within a certain cluster will never increase without net data contribution. (Does this imply sybil resistance)
- Calculation of new trust seems to be $O(1)$ as well:
- Use of iterative sum (with partial sum stored in trustchain)
- Bootstrapping could be done through allowing x% of transactions to also be done with lesser trusted nodes
- If both 'Trust' and 'Transaction size' are stored within transaction block verification can be easily done.



Value privacy and sender-receiver anonymity.

- Implementing privacy and/or anonymity in Tribler would reduce the traceability and would introduce plausible denial

Tribler plugin that allows for payment bandwidth tokens through the proposed platform

- Requires all of the above to be done (to a certain degree).
- Requires a trusted financial endpoint:
 - Start a payment service provider (long process, relatively expensive).
 - Use European bank account (Not very reliable, probably illegal)
 - Use PayPal (Fee's + boring, probably violates their terms and agreement)
 - Any other cryptocurrency (volatile, but easy and hard to take down)