

Ideas and Proposed Features

1. RESEARCH built-in `bitcoind` caching, multithread, etc.
2. OMNICORE pull request for Get Balances for property with height/hash
3. Cache architecture
 - a. Unified architecture
 - i. Supporting serving via JSON-RPC, REST, WebSockets, ZeroMQ?, RSocket?
 - ii. Gets data from `bitcoind` via JSON-RPC, ZeroMQ (and REST?)
 - iii. Supports plugins for Omni, Analytics, etc.
 - b. JSON-RPC Features
 - i. Caching based upon ChainTip (best block)
 - ii. Caching for non-ChainTip based data?
 - iii. Caching 0-argument calls
 - iv. Caching 1-argument calls
 - A. Address
 - B. TxID
 - C. BlockHash
 - D. BlockCount
4. Integration with and/or use of popular libraries
 - a. Micronaut Cache
 - i. External Caches
 - b. Micronaut Rate-limiter
 - c. RxJava3
 - d. resilience4j (vavr)
 - e. Micronaut ACME (for certs)
5. Tor Hidden Service
 - a. Canary UTXO
6. Payment Channel based Micropayments
7. How tied to Micronaut do we want to be
 - a. What can go in library without Micronaut Dependency?
8. Is there a JSON-RPC only version? (e.g. not Bitcoin or blocks?)
9. Components that can be integrated with a bitcoinj-based server implementation
10. JDK 11 until Graal supports JDK 17
11. Docker flavors:

- a. Hotspot
 - i. x64
 - ii. ARM64
- b. Graal Native-Image
 - i. x64
 - ii. ARM64