This is the twelfth edition of the BCH Pulse developer newsletter. Existing projects have been updated. Information can be sent to the new email bch.dev.mail@gmail.com Thanks! Here is some of the work that is being built on BCH by the Developers. This does not take into account work done by developers who chose to remain anonymous.

Chris Pacia - BCHD

https://github.com/gcash/bchd

Recently Completed:

- Released 0.16.3 which had a fix to a standardness bug

Currently working on:

- Specing out the SLP integration, expecting to have a document available for review and comment this month.

Future work:

- SLP integration

Josh Ellithorpe - BCHD

https://github.com/gcash/bchd

Recently Completed:

- BCHD 0.16.3

Currently working on:

- SLP JS library
- Minor updates to explore.cash

Jonathan Silverblood - Cashual Wallet & Flipstarter

https://github.com/monsterbitar

Currently working on:

- Specification and implementation of a Price Oracle for use in BCH smart contracts, and smart contract risk trading to mitigate volatility.

Jason Cox - Bitcoin ABC

https://github.com/Bitcoin-ABC/bitcoin-abc

Recently Completed:

- Helped businesses prepare for the May upgrade, which activated smoothly.
- Various improvements including: improved node stability, improved performance, and bug fixes.
- Faster and more stable tests running on all changes, before and after landing on master.

Currently working on:

- Infrastructure to improve iteration speed team-wide.
- Faster deployments for website and testing infrastructure.

Future work:

- Develop code-gen for repetitive tasks.
- Continue effort on de-globalizing internal node state.

Wants help with:

- Backports: https://github.com/Bitcoin-ABC/bitcoin-abc/blob/master/doc/backporting.md

---

Antony Zegers - Bitcoin ABC

https://github.com/Bitcoin-ABC/bitcoin-abc

Currently working on:

- Reviewing DAA work to define requirements, design goals, and evaluate different proposed improved DAAs for BCH.

Amaury Séchet - Bitcoin ABC

https://github.com/Bitcoin-ABC/bitcoin-abc

Recently Completed:

- Cleaned up upgrade code related to Transaction Chain Limit
- Cleaned up upgrade code related to Sigchecks.

- Other miscellaneous code cleanups.

Currently working on:

- Porting PSBT (Partially Signed Bitcoin Transaction) to Bitcoin ABC, and adapting it for BCH transaction.
- Avalanche - fixing tests and preparing code for block-level avalanche.
- BIP-157 - work to bring BIP-157 block indexing code to Bitcoin ABC. This enables Neutrino wallet support.

Future work:

- Continue with current work, and deal with new stuff that comes up.

Wants help with:

- DAA work - defining a problem statement and requirements.

Andrea Suisani - Bitcoin Unlimited

https://github.com/BitcoinUnlimited/BitcoinUnlimited

Recently Completed:

- Extend a bunch of RPC calls to work also with to block height not just block hash (BCHN/BU), improved github.com/sickpig/bch-rpc-exploer (see explorer.bitcoin.com)

Currently working on:

- Electrum server testing (eletrs, fulcrum), BU develpoment

Wants help with:

- "everything I''m currently working on 😄"

George Bissias - Bitcoin Unlimited

https://github.com/BitcoinUnlimited/BitcoinUnlimited

Recently completed:

- Graphene v2.2
- Updated Graphene spec

Currently working on:

- Bobtail prototype (BUIP 131)

Future work:

- Bobtail prototype

Tom Zander - Flowee

https://gitlab.com/FloweeTheHub

Recently completed:

- Provide a 'txid monitor' service. Allowing clients to register a txid they expect and get a push notification on first-seen or mining. (Flowee the Hub)
- UTXO-DB speedups because of better algorithms for compression aiming at memory-locality. (Flowee the Hub)
- Introduced a new C++ lib 'p2pnet' (Flowee Pay)
- Provided a simple, functional, desktop wallet that can sync existing private keys (Flowee Pay)
- Provided 'sending' feature to actually transfer money. (Flowee Pay)
- Researched and implemented a UTXO system that aims to have enough outputs to avoid unconfirmed chains. (Flowee Pay)

Currently working on:

- Ongoing maintenance work, including backports and working with newer libraries. (Flowee the Hub)

Future work:

- Import private seeds.
- Mobile skin (QML)

Wants help with:

- Import private seeds. (does anyone have a C++ lib?)
- Mobile skin (QML)

Joshua Green - Bitcoin Verde

https://github.com/softwareverde/bitcoin-verde

Currently working on:

- "Bitcoin Verde 2.0" which is an overhaul to the storage system of Bitcoin Verde.
  - Syncing progress down from 1+ week to 24 hours
  - Storage requirements down from 750GB to 250+ GB.
  - Currently in beta, QA soon.

Future work:

- Mining Validation Service
- Bitcoin Verde mining rules hardening

Freetrader - BCHN

https://gitlab.com/bitcoin-cash-node

Recently completed:

- 2nd and 3rd releases of Bitcoin Cash Node (v0.21.1 and v0.21.2)
- Setting up bookkeeping, scheduling, backporting processes for BCHN

Currently working on:

- Managing the BCHN development & maintenance work
- Specification of automatic finalization & block parking/unparking
- Looking at restructuring BCHN test environment to improve verification capabilities

Future work:

- Improving simulation capabilities for evaluation of BCH changes

Wants help with:

- BCHN improvement dev, testing, review (Merge Requests, bug reports) - join me on BCHN Slack via the invite link available on https://bitcoincashnode.org
- Feedback about CPFP usage: https://gitlab.com/bitcoin-cash-node/bchn-public-consultation-system/-/blob/master/output/campaigns/202006_BCHN-PCS_CPFP_survey/202006_BCHN-PCS_CPFP_survey-en.md

---

Im_uname - Electron Cash, Flipstarter, BCHN

https://github.com/Electron-Cash

Recently completed:

- BCHN Flipstarter campaign (and helped with others)

Currently working on:

- Electron-Cash Flipstarter campaign
- Sketching new possible AnyHedge contracts

Wants help with:

- Electron-Cash
- BCHN

---

mtrycz - BCHN

https://gitlab.com/bitcoin-cash-node

Recently completed:

- A Beta Release of corgi , a distributed framework for testing emergent properties of a bitcoin network
- https://gitlab.com/mtrycz/corgi

Currently working on:

- Polishing corgi for public release, adding test-cases

Future work:

- I'd like to try to formalize a BCIP process (with on-chain proposals via memo/member)

Wants help with:

- Defining test-cases for corgi, help with gathering BCIPs and implementing the system

---

Calin Culianu - Electron Cash

https://github.com/Electron-Cash

Recently completed:

- BCHN performance and other fixes and improvements
- Electron Cash macOS packaging and general look & feel improvements (macOS only)

Currently working on:

- BCHN codebase
- Fulcrum minor fixups
- A better mining pool

James Cramer - SLPDB / Electron Cash SLP

https://github.com/simpleledger/Electron-Cash-SLP

Recently Completed:

- Initial specifications for SLP Rewards and Staking protocols

Currently Working on:

- Initial specifications for SLP Rewards and Staking protocolse

Future Work

- SLP Rewards Spec/Implementation

Paul Oldridge - PayButton

https://github.com/PayButton/paybutton

Currently working on:

- Implementing project overhaul w/ Preact.

Future work:

- Expanding PayButton to cover features outlined on GitHub (https://github.com/PayButton/paybutton).

Fernando Pelliccioni - Knuth node

https://github.com/k-nuth/kth

Recently Completed:

- Improved unit and integration tests.

Currently working on:

- Crowdfunding platform for Knuth.

Future work:

- Implementing mining-compliance test batteries.

Chris Troutner - FullStack.cash

https://github.com/Permissionless-Software-Foundation

Recently Completed:

- FullStack.cash has had several updates recently. ipfs.fullstack.cash allows anyone to pay BCH to host files on the IPFS network. bch-js npm library has built in functions to support IPFS uploads.
- minimal-bch-wallet (https://www.npmjs.com/package/minimal-bch-wallet) npm library released, forked from Honest.Cash's web wallet. This will be the wallet engine used as wallet.fullstack.cash is developed.
- UncensorablePublishing.com got a new home page. This leverages the BCH blockchain for coordination and publishes content over the clear web, Tor, and IPFS.

Current Work:

- wallet.fullstack.cash is a web-based wallet that will use the uncensorable publishing techniques at UncensorablePublishing.com. It's not functional yet, but we hope to have basic functionality in place in the next couple weeks.

Future Work:

- minimal-slp-wallet (https://www.npmjs.com/package/minimal-slp-wallet) is not yet functional. It will be a clone of minimal-bch-wallet, but will support SLP tokens and NFTs.

Want help with:

- I'd love to see more people start using bch-js (https://www.npmjs.com/package/@chris.troutner/bch-js).
- I'd love help with integrating Bitcoin.com's rest.bitcoin.com into its Ninsight class: https://github.com/christroutner/bch-js/blob/master/src/ninsight.js
- I'll provide free access to the FullStack.cash REST API for anyone who wants to help with development.

Karol Trzeszczkowski - Plugins

https://github.com/KarolTrzeszczkowski

Recently Completed:

- BitcoinBileto paper wallet manager: https://github.com/KarolTrzeszczkowski/Bitcoin-Bileto
- Mecenas executor bot – full automation of Mecenas recurring payment service.

Currently working on:

- DAA improvement research, Mecenas automation integration in Mecenas plugin

Future work:

- DAA improvement research

Wants help with:

- DAA improvement research