Ethereum: Clients

return to the Ethereum Standards

Source: What exactly is an Ethereum Client

> *An 'Ethereum client' is a term referring to any node able to parse and verify the blockchain, its smart contracts and everything related. It also allows you/provides interfaces to create transactions and mine blocks which is the key for any blockchain interaction.*

Official reference implementations (CLI)

There are currently three reference Command Line Interfaces (CLI) implementations available, as you already highlighted:

- eth - C++ client of the webthree project. It was formerly known as cpp-ethereum: https://github.com/ethereum/webthree-umbrella
- geth - Golang client of the go-ethereum project: https://github.com/ethereum/go-ethereum
- pyethapp - Python client of the pyethereum project: https://github.com/ethereum/pyethapp

All clients should work the same, from the user's perspective. They provide the same interfaces and so on. For example, if you launch a DApp or the Ethereum Wallet or a DApp browser instance, it should not note any difference in communicating with the client.

Official reference implementations (GUI)

Graphical clients available by the Ethereum core developers are:

- mist which works on top of geth or eth and aims to be a DApp browser and currently implements the ethereum-

wallet-dapp. https://github.com/ethereum/mist

- alethzero is internally called the hardcore client but it's being deprecated. https://github.com/ethereum/alethzero

Third party implementations (CLI)

Non-official clients implementing the yellow paper specification are:

- parity - Rust client by ethcore: https://github.com/paritytech/parity
- ethereumj - Java client by the ether.camp team: https://github.com/ethereum/ethereumj
- ethereumjs-vm - Ethereum Virtual Machine in Javascript: https://github.com/ethereumjs/ethereumjs-vm
- ethereumH - Haskell client from consensys, but it's not developed anymore: https://github.com/jamshidh/ethereum-client-haskell
- ruby-ethereum - Ruby client: https://github.com/janx/ruby-ethereum
- node-blockchain-server - simple Javascript server: https://github.com/ethereumjs/node-blockchain-server

- cpp
- ethereumh
- ethereumjs-lib
- ethereum_j
- go-ethereum
- parity
- pyethapp
- ruby-ethereum

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