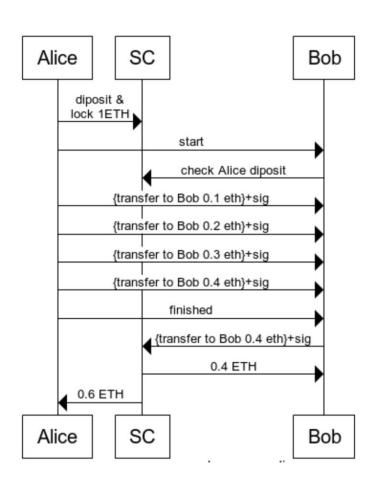
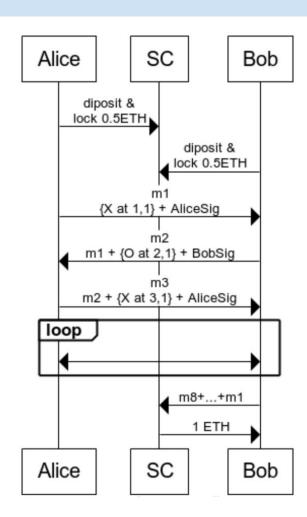


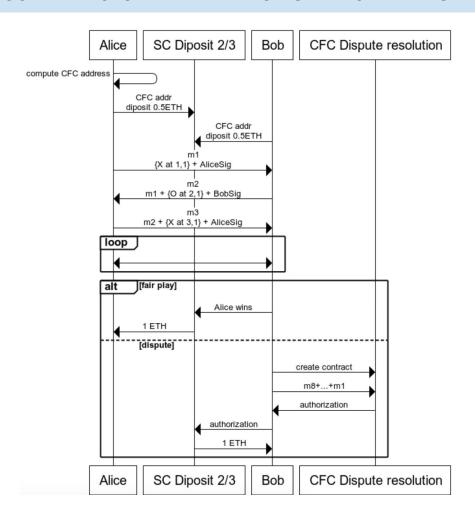
## scaling stuff @codecontext



### PAYMENT CHANNEL NETWORK Node Node Alice Node Node Bob Node Node



#### COUNTERFACTUAL INITIALIZATION STATE CHANNELS



#### counterfactual

/ kaontə fakt∫oəl/ •)

PHILOSOPHY

#### adjective

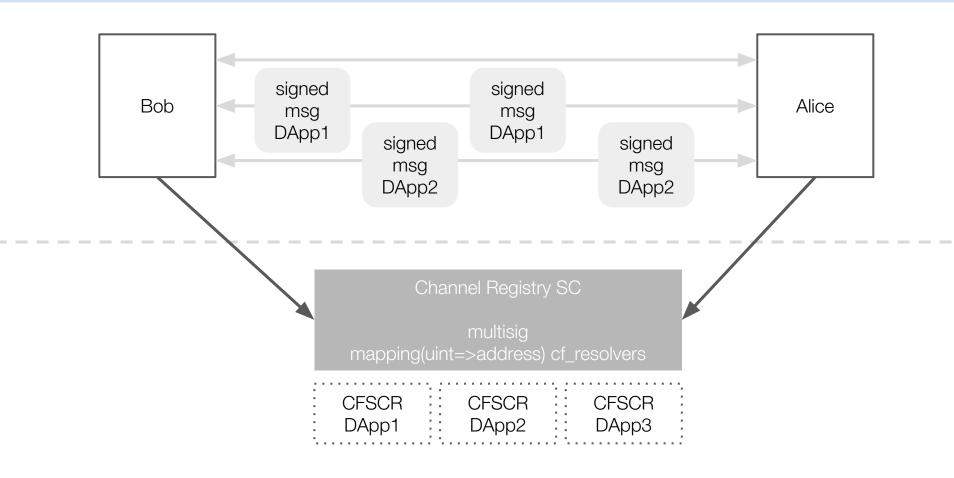
1. relating to or expressing what has not happened or is not the case.

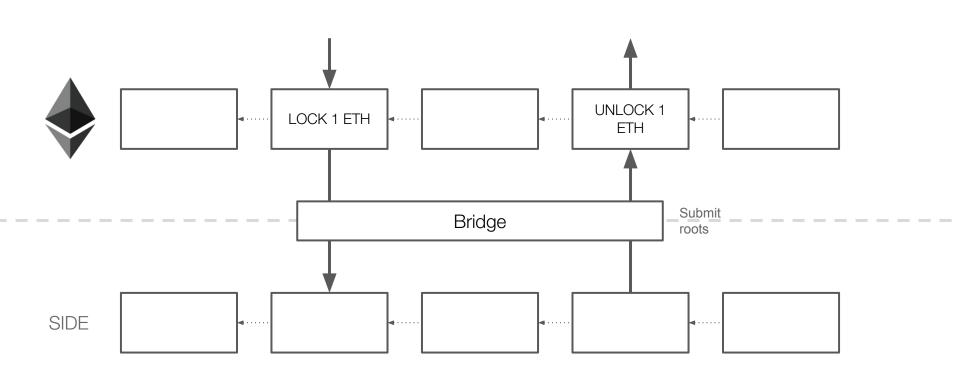
#### CREATE2

Adds a new opcode at 0xf5, which takes 4 stack arguments: endowment, memory\_start, memory\_length, salt. Behaves identically to CREATE, except using sha3( msg.sender ++ salt ++ init\_code)[12:] ) instead of the usual sender-and-nonce-hash as the address where the contract is initialized at.

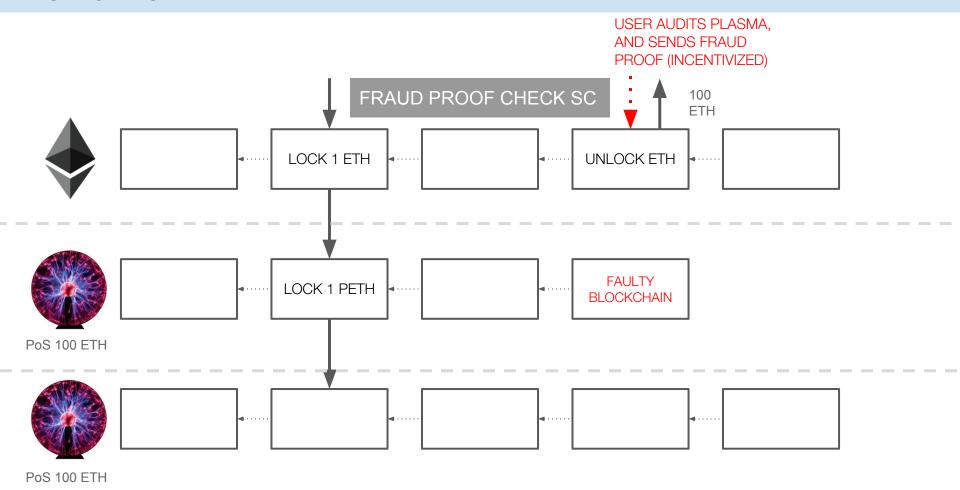
https://counterfactual.com/statechannels/

#### GENERALIZED STATE CHANNELS

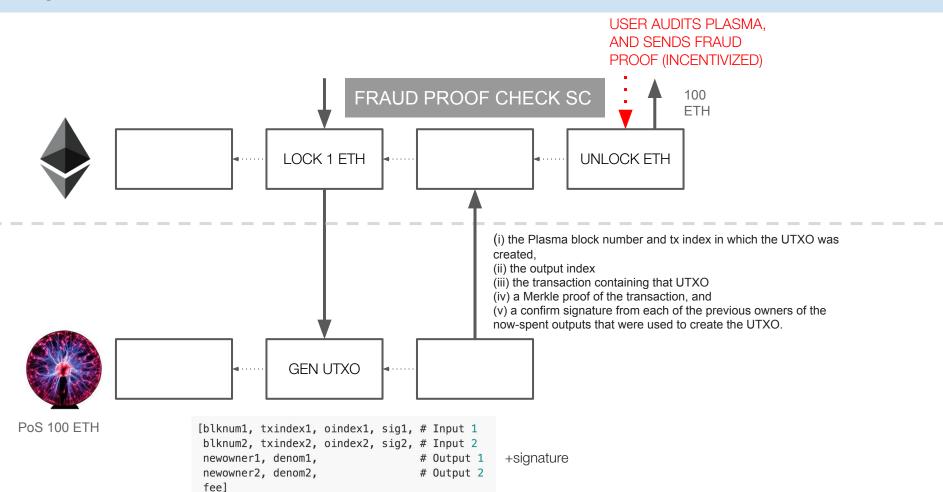


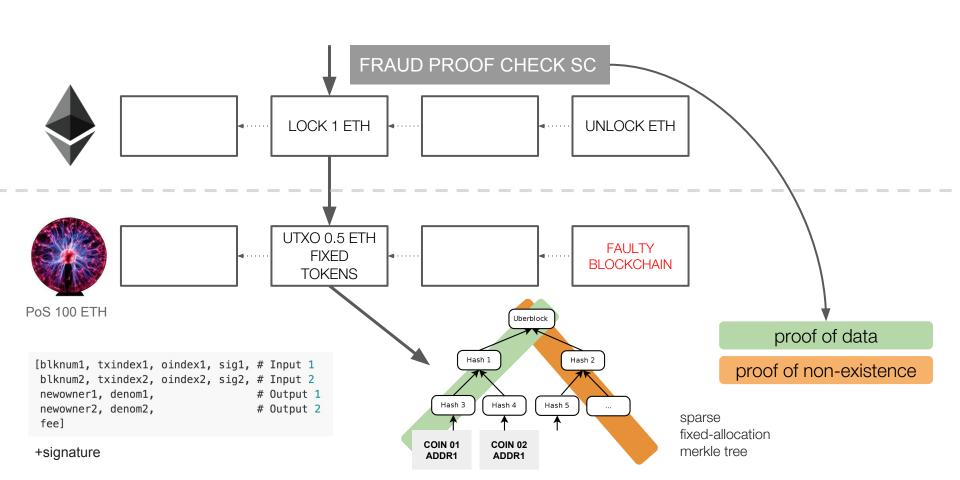


#### PLASMA CHAINS

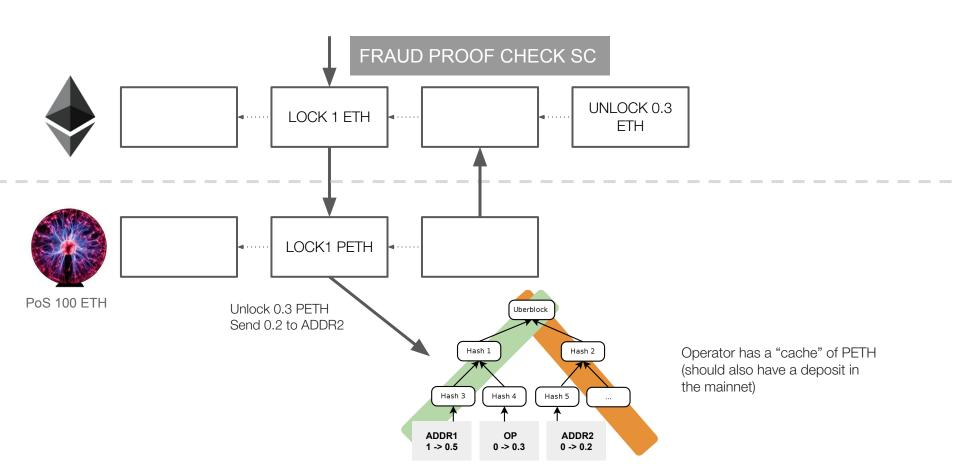


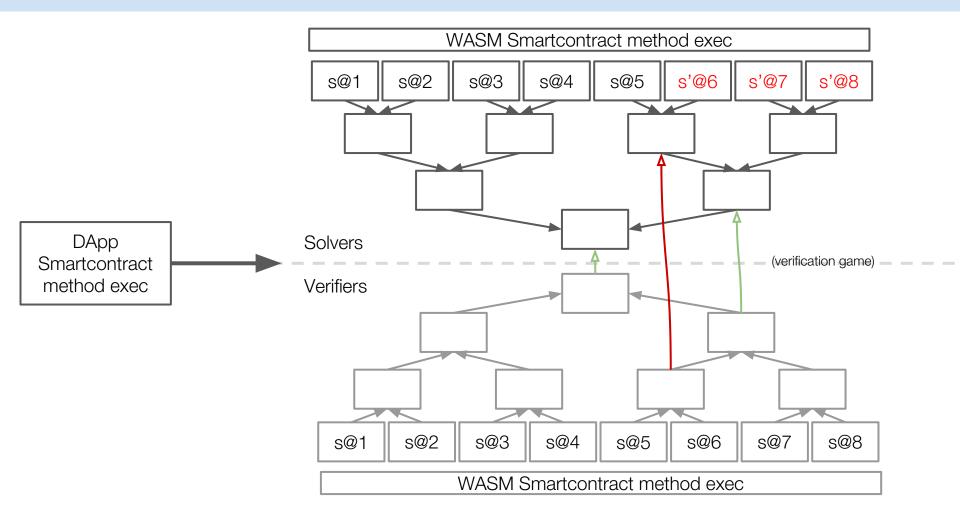
#### PLASMA MVP





#### PLASMA DEBIT (plasma cash payment channels)



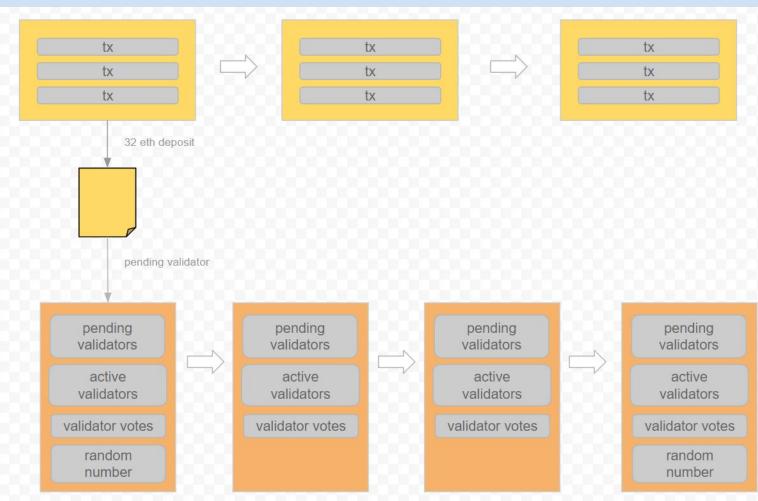


#### SHASPER (sharding+casper)

# Current Blockchain (proof-of-work)



(proof-of-stake)



#### SHASPER (sharding+casper)

