LITMUS-ZK

ZK Light Client -> CSPR Network

LITMUS-ZK Kernel

KERNEL
chain-name | trusted hash | ip-address

PROVER sp1 | risc-0

FETCHER fsys | net

CACHE

fsys | redis

DISPATCHER multi-chain

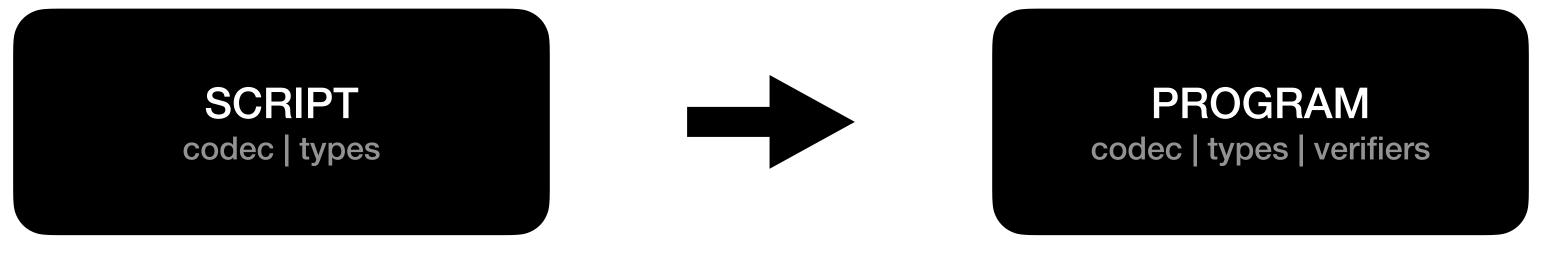
- On Initialisation
 - cache::reset
- On Cache Reset
 - fetcher::start
- On Block Fetched
 - prover::execute
- On Proof Generation
 - cache::set-proof
- On Cache Set
 - dispatcher::dispatch
- On Dispatch Confirmed
 - cache::set-proof-status

CA Engineering

Dec '24

LITMUS-ZK

Solution Overview



script invokes instances of program running within zk-vm (sp1 | risc-0)



CRYPTO digests | sigs

KERNEL orchestrator

TYPES chain | crypto | primitives

VERIFIERS types

program invokes business logic encapsulated within standalone crates

CA Engineering

Dec '24