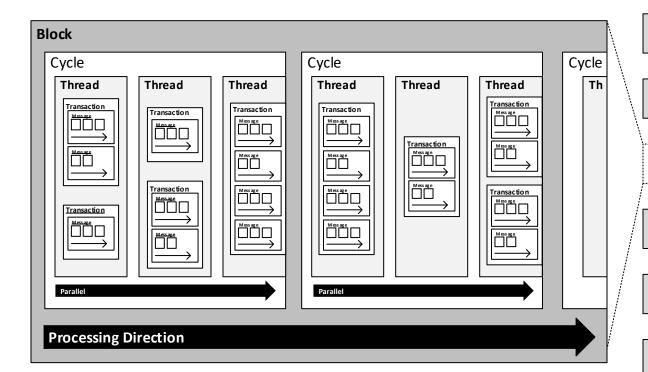


EOS Visualized

## EOS

## Anatomy of a block

**Processing Direction** 



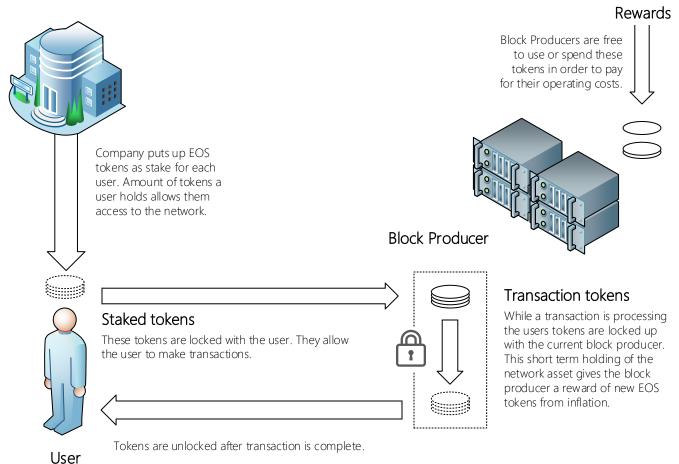
Latency is the time it takes for one account to send a message to another account and then receive a response. The goal is to enable two accounts to exchange messages back and forth within a single block without having to wait 3 seconds between each message. To enable this, the EOS.IO software divides each block into cycles. Each cycle is divided into threads and each thread contains a list of transactions. Each transaction contains a set of messages to be delivered. This structure can be visualized as a tree where alternating layers are processed sequentially and in parallel.

Transactions generated in one cycle can be delivered in any subsequent cycle or block. Block producers will keep adding cycles to a block until the maximum wall clock time has passed or there are no new generated transactions to deliver.

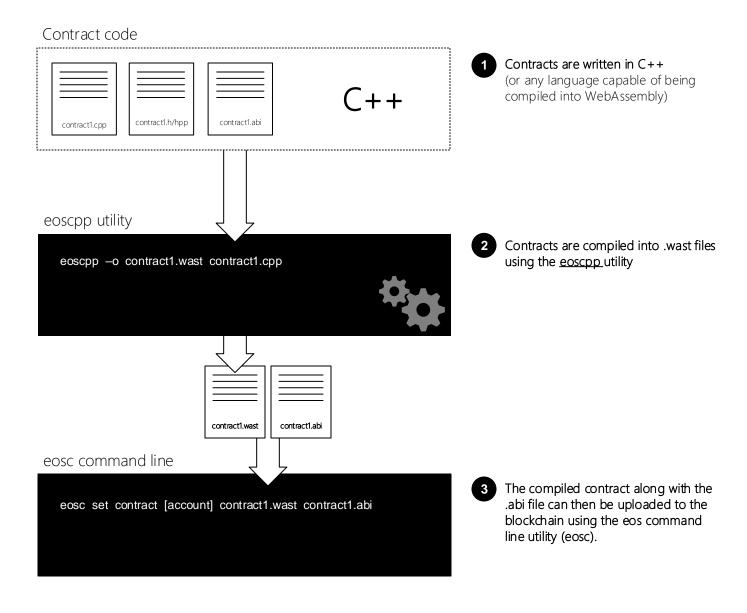
It is possible to use static analysis of a block to verify that within a given cycle no two threads contain transactions that modify the same account. So long as that invariant is maintained a block can be processed by running all threads in parallel.

# **EOS**Staking/Tokens

#### Application/Company



### EOS Anatomy of a contract



#### eosc command line

eosc push message [account] contract1 "'input" --scope [account]

4 Contracts on the chain can now be executed using the command line.