## NFOS: Automatic Scaling of Singlethreaded Network Functions







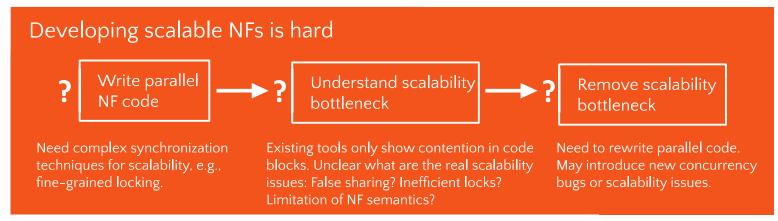




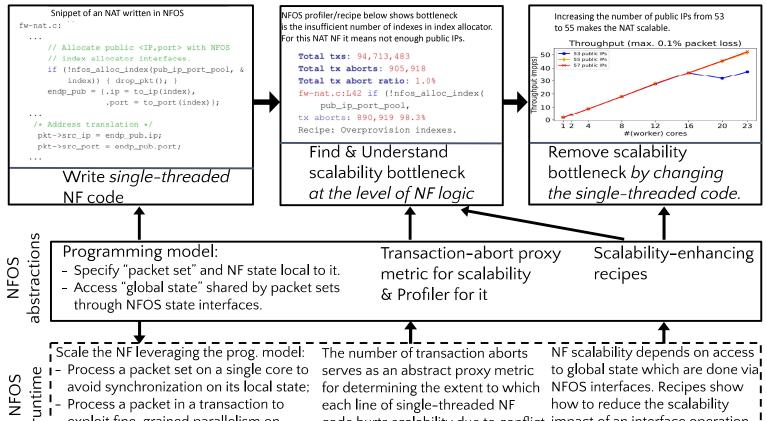




Appropriate abstractions can hide concurrency from developers while allowing them to convey enough information for NFOS to scale an NF.



## NFOS: Develop scalable NFs in a single-threaded manner



exploit fine-grained parallelism on global state access.

each line of single-threaded NF code hurts scalability due to conflict impact of an interface operation, access to global state.

how to reduce the scalability and hence improve NF scalability.



