

417

-QUIC

Traditional
Stack

HTTP

TLS

TCP

IP

quic

HTTP

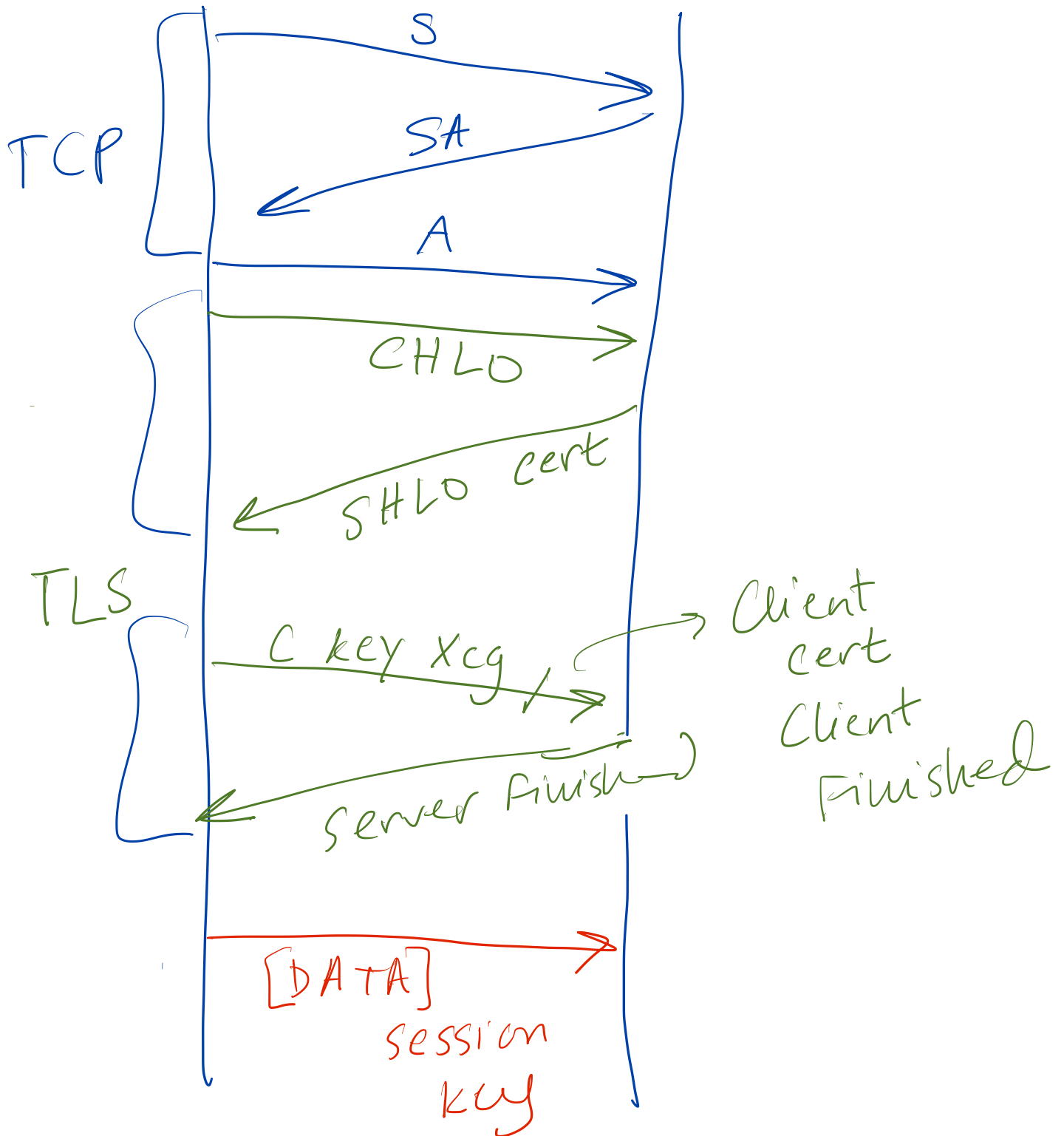
[quic
[crypto]]

[UDP]

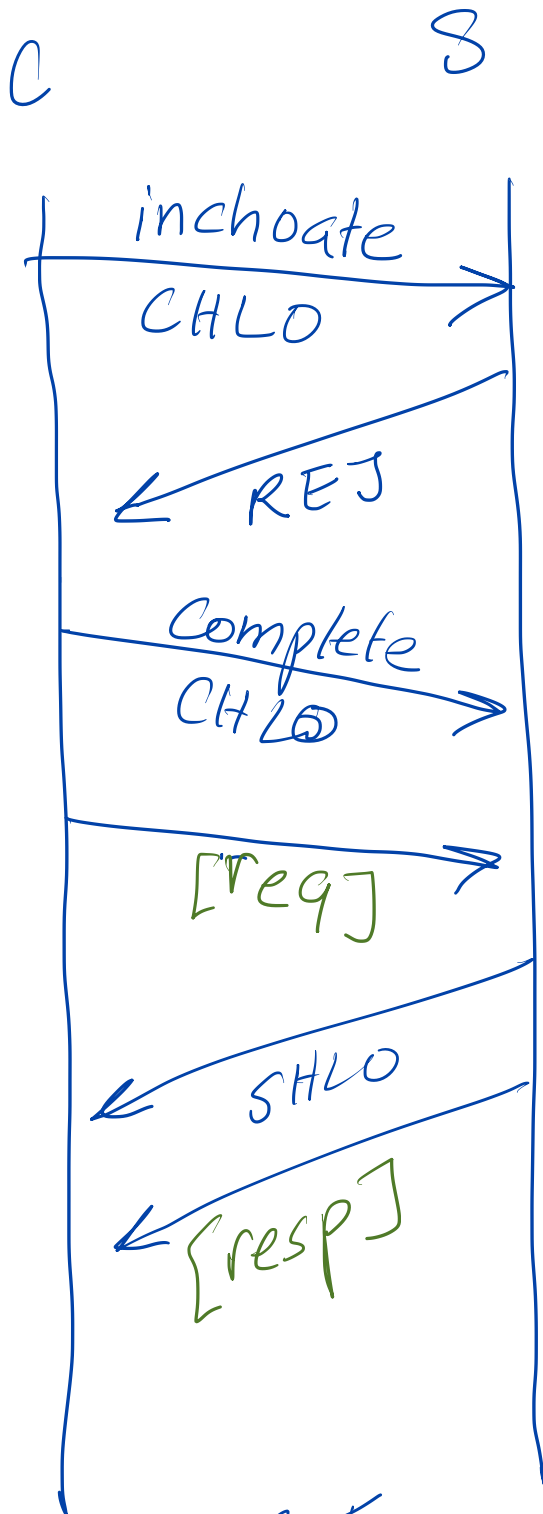
IP

Conn. Establishment

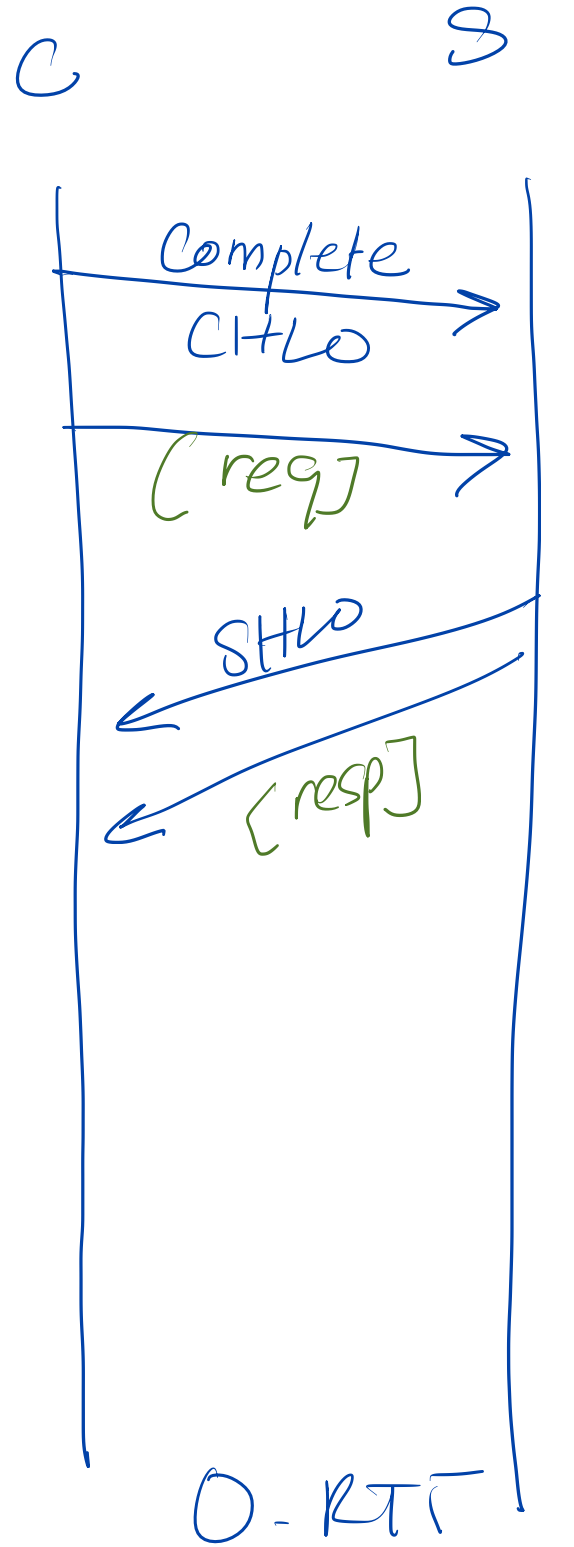
TCP + TLS



QUIC



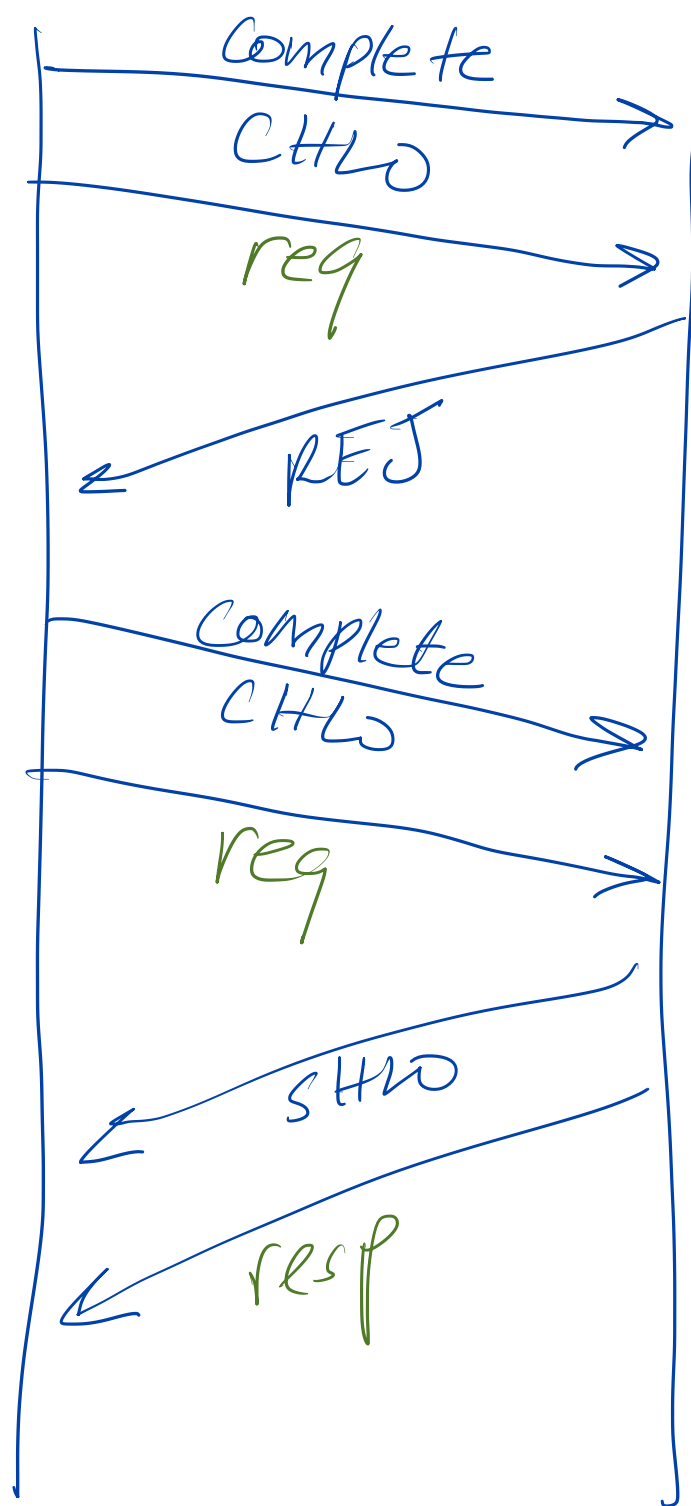
1 RTT
initial



0-RTT
(successful)

C

S



rejected O-RTT
handshake

Stream Multiplexing

- TCP HOL blocking
problem

QUIC :

independent streams

w/in connections

- Dropped UDP

dns only affect
streams contained
in the dg

Cong Control

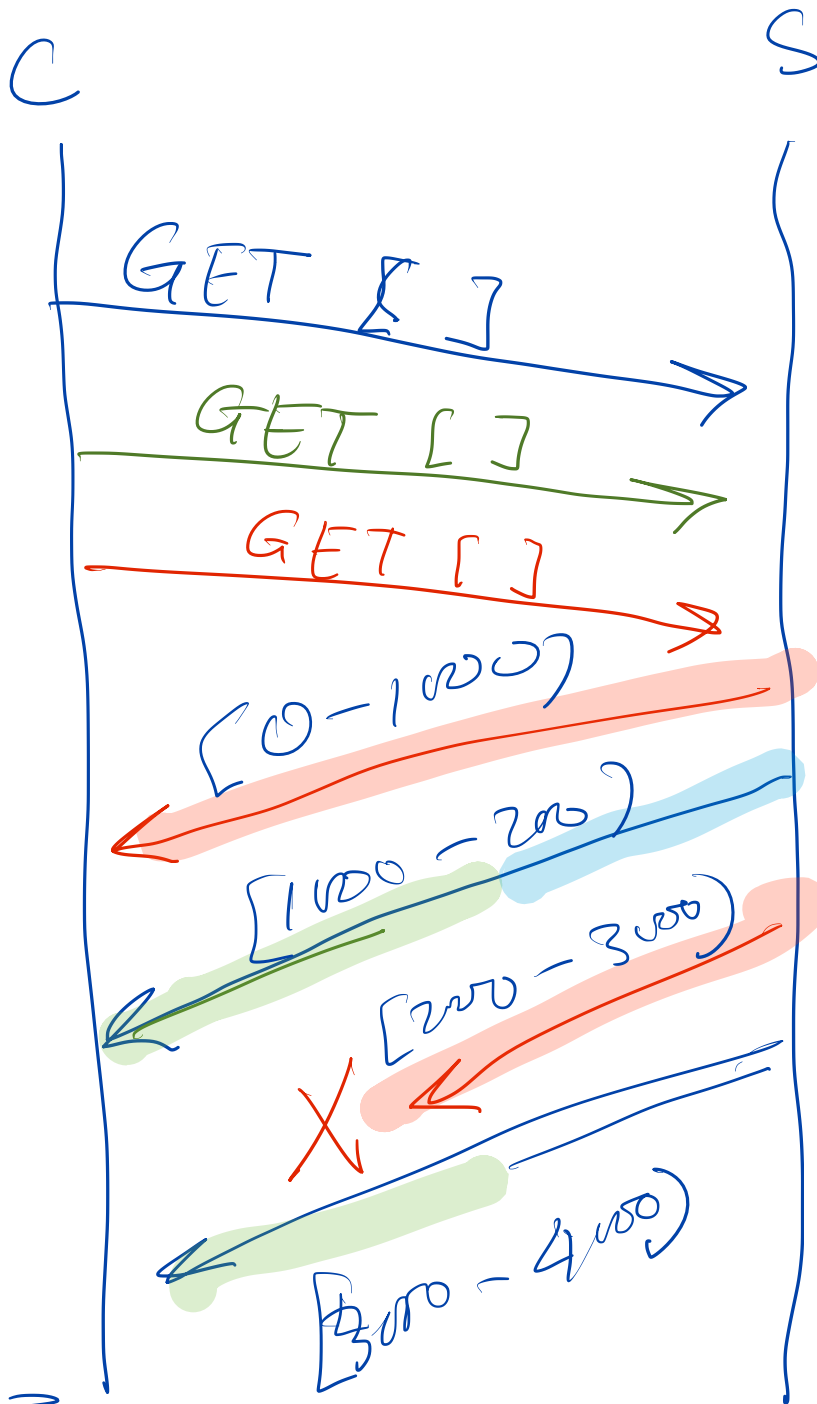
- Same as New Reno

- Each segment has
uniq packet #

- allows Rex to
be used for
RTT calc.

HTTP Blocking

TCP v QUIC



Blocked
in
TCP
but not
in QUIC

read()

