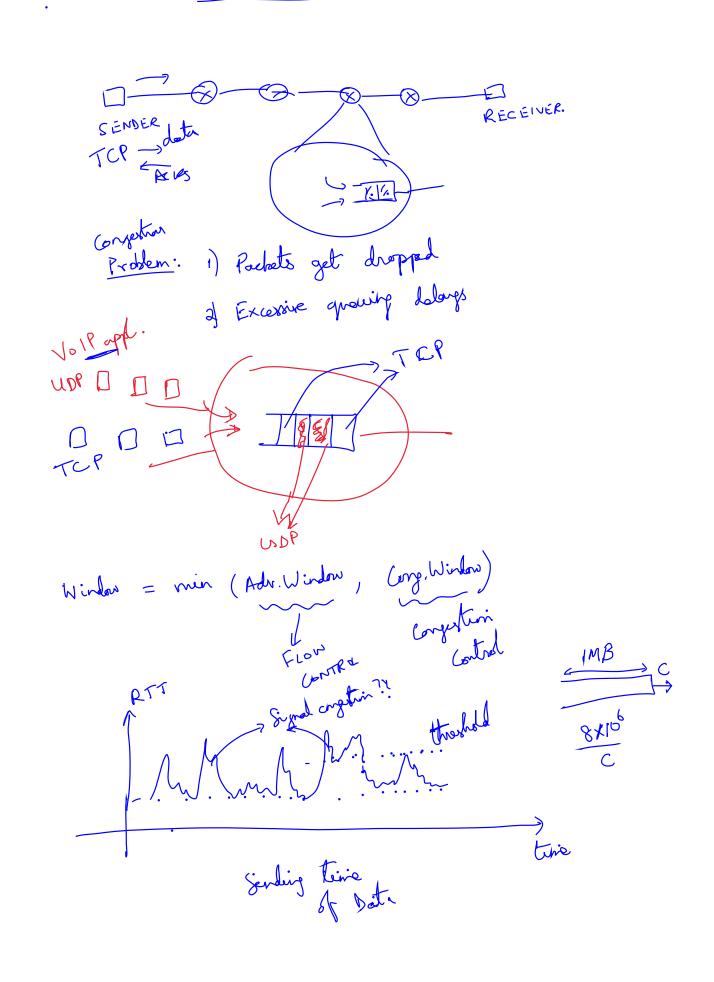
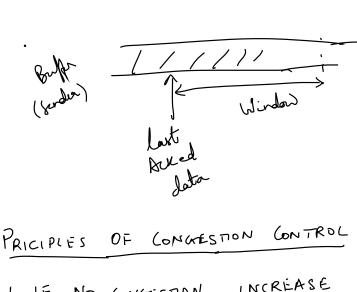
TCP CONCRESTION CONTROL



Detret Portet Los Ore idea: Timeont Second idea: We ACK feedback to enfor losses Jupped ? ? RES NOT (1st trasse) (After 1st ACK) > Sciping WINDOW

RUSSAN SED data logite) MSS = Max. Segment Size If fritial Windows = 3MSS, we send out 11: 1/11. SYN dropped WACK#=x+1+MSS ACK to this has ACK # 2+1 mss ACK#2 (SENT) => Everything from start till received. CUMULATIVE ACK Ly Rex # of some previous Ack sent out Ly Each DHP ACK says one more regment DUPLICATE ACKS



1. IF NO CONCESTION, INCREASE CW CONSERVATIVELY

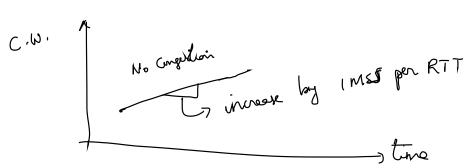
DataRate ~ Windows

For now assume Window = CW

(Window = min (Adv. Window, CW)

(any. Window)

ADDITIVE INCREASE



Every time an ACK arrives, TCP was "self-doching":

CW , MSS

Ar KS = CW in Widow onss

$$= \frac{MSS}{CW/MSS} = \frac{(MSS)^2}{CW}$$

receiving an ACK (Assuming no congection)

$$C\omega + = \frac{(MSS)^2}{C\omega}$$

congestion is detected, decreese viralers size

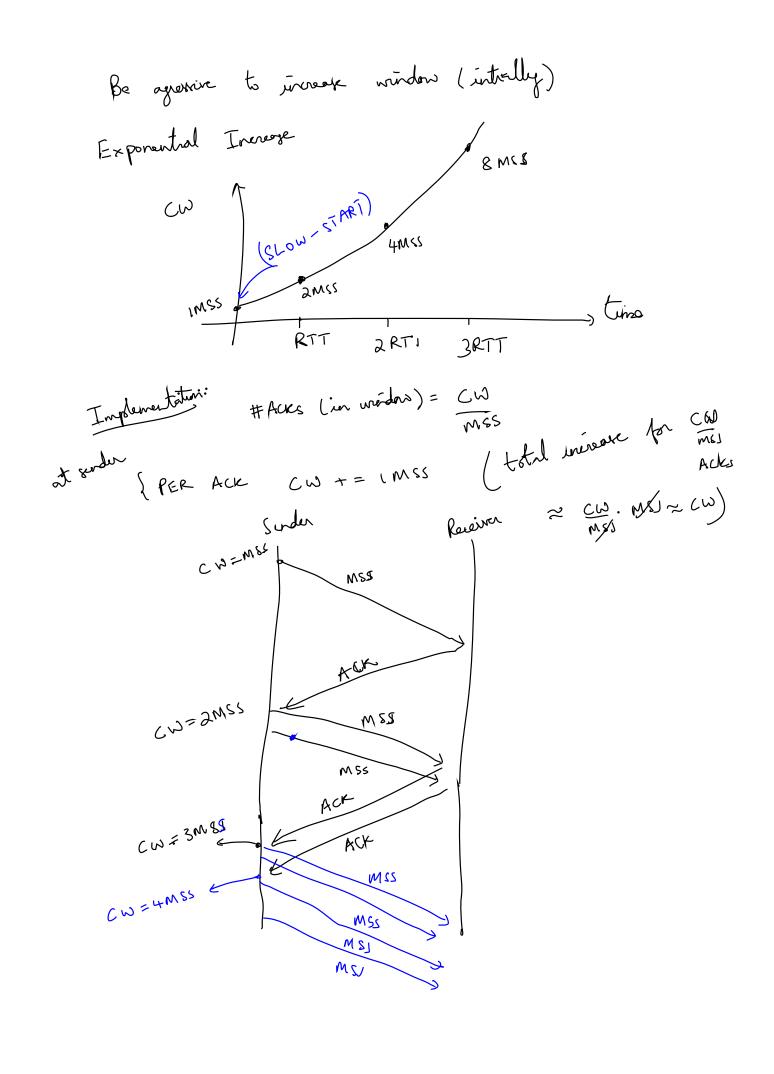
TCP Take -> CW=1 on detecting congretion

AIMO: Add. Irer. Mult. Decreer

3) Initally set CW small, since we do not know the

appropriate daturate

AI way be too slow



CONSTANT ANDIDANCE

SLOW STANKT

S.S. SS-threshold

SS-threshold

Regnet For Comments
RFC

TCP CUBIC