MISCELL ANE DU S
RFC 5681 -> Congustion Control RFC 6218 -> timer
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Suppose we receive on ACK which acknowledges (N) byto of now data (M) byto
(Mag)
than sword += min (N, MSS)
IN Conjustion Avoidance (cound) SS-truch)
For every ACK which actendedly NEW dare
lower = more (court i waste)
RFC 6298: Initial RTO = 1 Sec PC V8.
RFC6298: Initial RTO = 1 Sec or higher = max (cumd, higher) Low by T.O.: Settreth = max (Window/2, 2* MSS)
Loss By T.O.: RTO = min (2*RTO, max-RTO) Loss L
TCP VEGAS -> 1994-5
RTT detect congestion
Sec Pecchier

Does RTT for congettion holp? VOIR (our UPP) Starry suritive VI/J.Y.K.
TCP VECTAS Detect Loss by T.O. and 3 Dup Acks and modify curd and softmen as in
SLOW START RULES ARE SAME AS RENO
Model path as a single greene
Sk grove empty (no competion) RTT MM J graving delays error (no competion)
then (RTT = BarkTT) BorkTT BorkTT No TT > BarkTT)
Actuallate = and Exptrate (since RTT > BunkTT) Smooth out the meanured RTIs in Diff = ExptRate - AtualPate
Diff = ExptRate - ActualPate

Diff $\angle d \Rightarrow (wind)$ (eg: wind $+ = \frac{(ms)^2}{(wind)}$ of every Ack rows data In Congestion Avoidance (cound > settreth) B < Diff => cound decreared by IMJS per L < Diff < p = 7 comd is not modified Diff = cond. _ cond. = cond (RTT-BURRIT)

BaseRTT X RTT eggs

C lots | see

W////

B bits opening dalong

Dill = world (B)C) ~ B

Aft × BarRTT ~ BorRTT Cord ~ C Suppre. d=30KBPS; 3=60KBps (Atral Pate Barrt = 100ms $\frac{A \times B}{A} \times B$ $\frac{B}{B} \times B \times B$ $\frac{B}{B} \times B$ $\frac{B} \times B$ $\frac{B}{B} \times B$ $\frac{B} \times B$ $\frac{B}{B} \times B$ $\frac{B}{B} \times B$

1) What if TCP Veges flows compete with Reno flows.? 2) what if we replace all Rens flows in Internal with Vegas? 1) Reno vs. Vegas RI grant down that than diff = d for Vages flow Aton Wilk compared to Vegas

only Veges fourt Si-Ri is on Vegas SRCEDST IPEPart Nos, Protocal field (19 Hdv) No plet LOSS quering dalays between here c is output rate of the c) Throughput can be higher than for the all lens care, because here the the all veges case que 50% higher throughput than all leurs care