CMSC417 Spring 2016 Lecture#13 3/23/2016

Agendal

=> project 3 assigned, due 4/6 @ 11:59pm

=> review sliding window => reciever-based flow control Dwhen to ack

I how to ack

show many seg #s do you need?

=> TCP

Stiding Window Receiver)

> Keeps 3 veriables

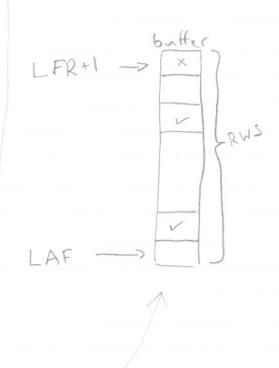
> RWS = receiver window size

> LAF = last acceptable frame

= LFR = last frame recieved

Pinverient LAF - LFR < RWS

No. IVIXIVI ... TITT.



SUS ~= butter size

even if frames arrive out-of-order,

I have this many slots to store frames
and still deliver them to the application
in order

on recving frame w/seq # 5

if (S& LFR)

discord (may ack) I'me already got it

else if (LFR < S & LAF)

accept

must ack

else

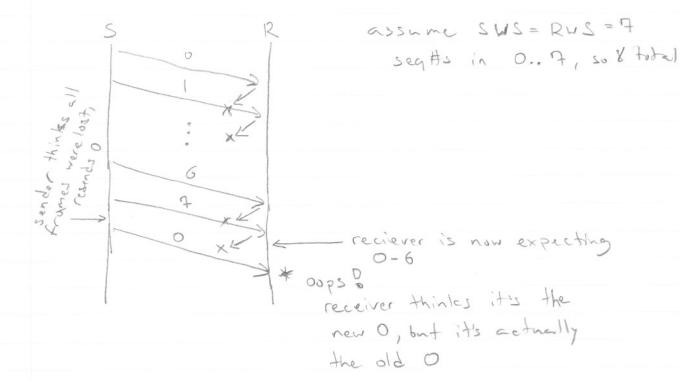
discard Il no space

What to ack? => the frame you just received? =) all record frames? => => the last frame you've record everthing up to? => the "holes" you have? (nack == negative ack) This is called a cummy lative ack => what TCP does => in acks, set sey# to LFR => locally keep LAF = LFR + RUS Example) LFR=5 12WS=4 => LAF=9 we get 7,8 -> buffer ack 5 we get 6 -> relase 6, 7, 8 trapp ack 8 LFR=8 RWS=4 => LAF=12 =) Do you need to tell the sender the RUS? could it help? > How big should RWS be? How big does it need to be? I RUS= 1 is called go-back-N Duby is it called that? When is it efficient?

Fimite seg #s]

How many seg #s do ve need?

clearly | seg #s | > SWS | seg #s | > RWS



=> sender will only send frames from LAR+1 to LAR+SWS => receiver is expecting frames from LFR+1 to LFR+RWS

> how for aprit can these two, windows set?

D sender sends everything

Dreceiver gets everything, but all acts lost

=> LFR = LAR +SWS

=> receiver expecting through LFR+12WS=LAR+SWS+RWS Iseq#S > SWS + RWS

