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MadeEasy Subject Test 2019: Computer Networks - Congestion Control

11. 758 views () asked in Computer Networks Dec 1, 2018 edited Mar 4, 2019 by akash.dinkar12 Consider an instance of TCP's Additive Increase Multiplicative Decrease (AIMD) algorithm where the window size at the start of slow start phase is 1 MSS and the threshold at the start is 1st transmission is 16 MSS. Assume TCP use over a lossy link i.e., timeout occur after transmission of 7th packet . What is the congestion window size at the end of 14 RTT (in MSS)? made-easy-test-series computer-networks congestion-control **Sandy Sharma** share

1 Answer



At:

t=1,⇒1MSS

t=2,⇒2MSS

t=3,⇒4MSS

t=4,⇒8MSS

t=5,⇒16MSS

t=6,⇒17MSS (Additive increase)

t=7,⇒18MSS (fails)



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t=9,⇒2MSS

t=10,⇒4MSS

t=11,⇒8MSS

t=12,⇒9MSS

t=13,⇒10MSS

t=14,⇒11MSS

So, at the end of 14th sucessful transmission,

The the congestion window size will be (11+1)=12MSS.

(s) answered Dec 1, 2018



balchandar reddy san

4 Comments

Sandy Sharma commented Dec 1, 2018

As per question, Timeout occured at 7th packet not 7th transmission.

16 1 夕

shashank8141 commented Dec 9, 2018

why did you add 1 at the end? 11+1?

16 0 91

balchandar reddy san commented Dec 19, 2018

at the end of the 14th transmission, window size will increase by 1 for 15th transmission.

16 0 QI

King Suleiman commented Sep 7, 2019

@akash.dinkar12 @balchandar reddy san @Sandy Sharma

sir, timeout occurs after 7th pkt na?

at rtt=4, we are sending 8 pkts right? then how is the solution correct?

should the quesntion say-"timeout after rtt=7?" or both things mean same?

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