Grade Book Detail

钟子鹏,

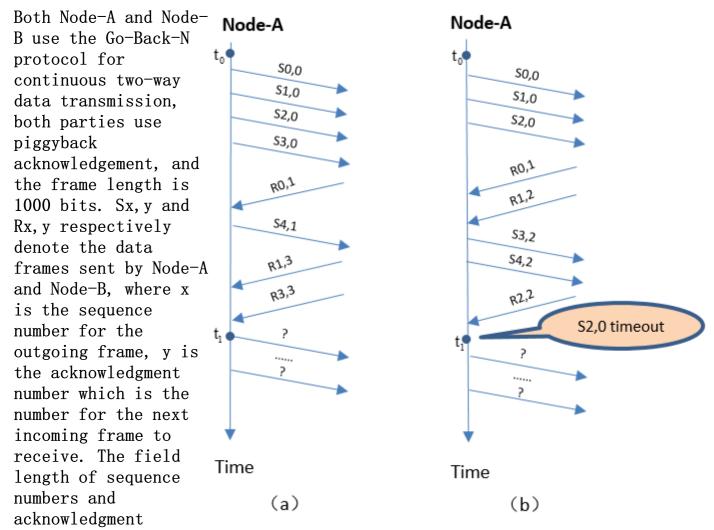
Quiz 3

Started: December 10, 2019, 11:02 am Last change: December 10, 2019, 8:02 pm

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numbers of data frames is 3 bits. The data transmission rate of the channel is 10 Mbps and propagation time is 0.48 ms. The following figures show two scenarios in which the Node-A sends and receives data frames, at the initial time t_0 both sequence number and acknowledgment sequence number of Node-A is 0, and at t_1 Node-A has enough data to be transmitted.

K

ı	First Frame: S <u>0</u>	, 0		
	Last Frame: S 2			
2. F	For Figure (a), from t ₁ , if no timeout occurred and no more data frame is received			
f	rom Node-B,			
r	now many data frames can N	lode-A send?	5	
٧	What are the first frame and	the last frame	(Denote them as Sx, y)?	
	X	у		
I	First Frame: S <u>5</u>	, 2		
I	First Frame: S <u>5</u> Last Frame: S <u>1</u>	, 2		
	For Figure (b), from t_0 to t_1 , t_1			
	now many frames Node-B ha			
	What is the last frame? (Deno			
	X	у		
I	Last Frame: S <u>1</u>	, 0	<u></u>	
			ccurred and no more data frame is	
r	eceived from Node-B,			
r	now many data frames does	Node-A need	to retransmit? 3	
T	The retransmission frames w	ill be (Denote	:hem as Sx, y):	
	x	У		
ı	First Frame: S 2	_ , <u>3</u>	<u> </u>	
I	Last Frame: S <u>4</u>	_ , <u>3</u>		
5. V	What is the sending time of a	a frame? 0.1	ms	
٧	What is the maximum chann	el utilization tl	nat Node-A can achieve ? 60	%
(rounding integer)			
	(Tip: Please consider the tra	nsmission tim	e of acknowledgment frame)	

Show Answer

Show Answer

Show Answer

Show Answer

Show Answer

Show Answer

Show Answer

Show Answer

Show Answer
Show Answer

Total: 100/100

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