UTOPIA

@ Noneceltoinitedize the header?

*Bec. we don't need to cedela sel no; as no frames are lest or dometel

No need to set a times of the Sends or the relieves?

* No frames are lost; sende the Chemnelis error free

* The Sends will always Send, and the releiver will always releive

5th Ce the network has as no of Packets to Send [UTOPIA ASSIMP.]

* No times needed at the Sends as it receives nothing!

StoPD Wait

No need for a Selne? Buffer = 1 * Bec. Only one frame is Sent at a line, 110 lon fusion Can haffen!

(4) who we send a dumm jempt jack? le No Ackne * Bec. we ack one frame at a time, no Confusion Can hother!

No need to Seta time at the Sender Northe Meliver?

+ Bel the Champalis error free; No frames or Acks are lost or damaged.

in the state of th

SCAPLEX Protobel for Nois J Channel
D why we need to Set a Selne to the Sent Frame? why one bit o
* 5 Ence the Channel Briss, while Sendin Ja frame, a Late Frame: Could reach the Yeleiver [out of order]. we need the set no to en Sure the Ch-order delivery of the Frames:
A We need 1 bit only, bel the receiver needs to check in a whole of tub frames [ceone bit] for the correct frame
8) why we need to set anack ne to the sent ACKs?
* Jame as (7), but for Acks
D why we need to set atoms at the sender?
* State the Channelisnoisy, the frame or its ACK Can belist, the time [ie timeast mechanism] is set to prevent deadlors
sendo: waith) for an ACK, Rel: Not Jetting the Francit should Ack
why we need to Set attended the Nec?
*Same as 9 but, for ACKs. [Sends waiting for an ACK, Rec: Hought it has Sent one] was In Jendol, we need only one times [at the sends or the rec] was
or the recition with Latte Server of the recition

Transfuline (TE) = Bandwidth (B) , Through Put (Th) = TE + 2TP

Total time (TE+2TP) 1 = TE+2TP = N * 13 2

link Capacity 1 27p=250 ×10 se, BW= 1500 ×10 B/sec, L= 512 Bytes $TE = \frac{L}{B} = \frac{512}{1500 \times 10^3} = 0.34133 \times 10^3 \text{ Sel}$ $\mathcal{I} = \frac{-76}{76 + 27p} = \frac{4}{50 \times 10^{-6}} = 0.58$ Th= 7+B=0.58 + 1500 +63 ~870 KBP5 [12] In Simplex Noisy Channel, sender's timeaut < rowel trip doly (2TP), discuss what will happen, even it only happened for one facult! (13) why does the sends Send the last Packet it Sent When Letter) duplicate ACK5? [what ASSumPs are made?]

The Frame was 65 t and the Yel timedout [50, servi servisor,]

ACK was debited [the second ene, 15 just an adack) again

ACK was modified by the Channel [Yel A, Instead of the]

ACK was duplicated by the Channel [2A, instead of 1A]

ACK was duplicated by the Channel [2A, instead of 1A]

How to

19 Packet Duflication at Hercross Channelin UTOPIA, swell ANO changes are needed [No Problem], as there is No dates Sent through the revuse Channel [from rec to Sendy]