90445

my , Gren,

(IRTTIZ Initial RTT = 5 m tee.

(ID). Initial deviation = 205 mgel.

first three segment = lomfec, 15 mill, 5 mill,

for 1 st tegment 2,

IRTTI = 5 m rec.

IDI= 205 morec

time out times value.

= 4xt DI, + TRTT 1

= 4x205+5=15mHR

Now Ack, for the 1st segment is received, after 10 mfer, so,

(ARTI)Actual RTT = 10m rec.

[AD] Actual deviation = IIRTT - Actual RTT].

= [5-10] = 5 mpec.

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## tor 2 nd segment

$$IRTT_{2} = d \times IRTT_{1} + (1-d) \times ARTT_{1}$$

$$= 0.5 \times 5 + (1-0.5) \times 10$$

$$= 0.5 \times 5 + 0.5 \times 10$$

$$= 2.5 + 5 = 7.5.39 \times 10$$

$$D_{2}=$$
,

 $A \times D_{1} + (1-d) \times ADL$ 
 $= 0.5 \times 2.5 + (1-0.5) \times 5$ 
 $= 0.5 \times 2.5 + 0.5 \times 5$ 
 $= 1.25 + 2.5 = 3.75$ 

So Time out timervalue (TOT2)
=4×IB<sub>2</sub>+IRTT2
=4×3.75+7.5= 22.05.

Now ACK. for the 2hd segment is Recenied after 17 8msel., 80.

for 3 od segment.

IRTT3

= XX IRTT2+ (1-X) ARTT2.

= 0.5 X 7.5+ 0.5 X 15

= 11,25 mree

tD3=, dxID2 \*(I-d)XAD2

= 0.5x3.75+ 0.5x7.5

= 5.625 mfec

(TOT3) Time out times.

こり×ID3+IRTT3,

= 4x+1-25+11-25

= 4×50625+11025

= 33.75 mple

NOW ACK for 3rd sec = 5 msec. 60,

ARTT3= 5 mHL.

AD3= / 11.25-5/= 6.25 mble.

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for you segment &

IRTT 4 =

dxIRTT3+ (1-d) \* ARTT3.

= 0.5 × 11.0 25 + (1-0.5) \* 5

= 8.125 mec.

工用第二.

dx[b-1)+601xb3

= 0.5 x 6.625 + 0.5 x 6.25

= 5.9375 mHL

TOTY =

4XI DY TIRTTY

=4×自5·9376+8.125

= 31.975 mel