the window-size where time cyt of

+ threshold = 128 kb = 64 kb.

congestion window size will occur.

from timeout window size is dropped to IMSS = 4 kb.

104 Kb (194) 26 Mes

Ed KP (ed) le Mes

expenential.

Now for each increment IRTT required.

 $2 \rightarrow 4 \qquad 2 \neq 7$   $3 \neq 7$ 

(MSS) 16 4 R77

32 5817

to achieve threshold

Now, From 16 to 26 more (26-16) i.e

BTI8CSEO18 Kunal Moharkar Konoharka. PTT seq = (lin) (rxp) . total = 14 PTT RTT = 2x propogation delay = 2 x 100 msec = 200 msec. .. Time required - 14x200 ms = 2800 ms = 2.8 sec: TCP Slow-start. Q.2. 15 MSS 4 MBS intital. Transmission 6th we have time out. 4 MSS -7 8 MSS - 1 RTT 2 RTT 2 15 MSS 8 MSS -> 15 MSS - 16 MSS 3RTT 9 17 81 ₹9MSS € C

timeout.

BTISCSECIS	
Kungl Mchowkov	
Koperaska.	- 4
so now threshold value	- 26 . to Mcc
	2
	-
NOW We jump bock !	a this wall re
24 MSS	
4 - 8 Mss -	4.63
8 -> 9 MSs	8th
10	3th
1)	10 44
12 -	£1 * ~
13 -	12 4
	13 <sup>H</sup>
1	
at end of 13th to	0 K 3 W 1974 0 N
123 19 MSS.	
= 14 × 4	СЬ
SIN Of = 56 KB	
window	

Kunal Mohaskak a.3) P of Eduranpoled packed = 0.25 It we assume 100% rade ing probality 1 of transmission probality 1 of so 150 transmission will pass 150 packets. 3 for succes (1-0.25) But prob. is .: We require more parkets d'agmisse, 150×9 = 50×9 3 = 200 paansmission retrorgmission) = 200-150 01:50 50 retransmissions needed.

BT18CSED18

kunal Mohaskar Karotarka 10.4 Total segment size = 340 B.

header overhood: 72 bytes .: payload in each = 340-72 = 268 bytes. 7040/ reg no, pessible = 232 (32 bib field) .. Total packent (seg) without wasp = Total pyload size = 232 (268) bytes × = 268 × 232 by to. Total transmission time = L 340 x 2 2 hyter. 200 x 210 x 210 bytes per s-c = 340 x 320 Sec = 179 Y 220 Sel = 1.7 X 2 20 Je -1.34 × 212 Sec

B41862E018

1/12 50 m Franchesielth & 8 Mbps bildelay = 2 bits. rolen immediately released to holding time) = osec. Propegation delag = d = 50 = 25 × 10-8 delcy: L = 2000 = 1 x10-3 Sec noileimenort Time when sing does work is for : noitzimensol-Total transmission time = lox(1x103) 3-1 = 2-5x10-3 sec. posotogation delay = solox 25×10-8 Toto1 25 × 10-7 Sec = 5.52 × 10- C 5.52×10-152×10-1 = 3.25 × 10-6

```
prop time: 2.5 x 10° 5 sec
 bit delay at each station = 2 bits
  alelay fime: 2 0.25 × 10 6
 notal delay time = 0.25 × 10 5 sec
efficiency of sing
     Trans time
    Papidelay + transtime + bit delay
         5.2 × 10,3
     52x10,1+ 5.2x10,3 + 0.52 x10,2
        2.5 × 10-3
     25×10-4 + 2,5 + 0.25×162
       0-2×10,3+5.2
      2.5
      2.5 + 0.005
                  = 0.9980
efficeincy = 39.8%
```

THAT ESTATE FOR

	kunal trahentin
	motasta
6	At time to y and y.  At time to y and y.  At the total pack segments
	2nd segment: To bytes header
	2n 1st regment, deq. n. = 112  Soysce = 200  destination = 82
<b>(A)</b>	In the 2nd Segment from x to y  Seq. hamber: 112 + 70 = 182  Soudle post: 200  dryf post: 82
(B)	in acknowledgement of first arriving segment,
	Aakhowladment no = 182.  Source post = 82  dost. post = 200
9	2f serond Begment arrives before first  seg. 2n acknowledgement of first  arriving Segment, acknowldegment No  201, 2t indicates that it is  waiting for bytes 201 and

onwards.

Koneharke. Timeline host 4. 14-051 X seq = 112, 70 by 1 es ACK = 182 Seq = 182, 50 bytes Timeour ACK = 232 Interval. Sep = 112, 70 bytes A(6 = 232

Kunal Mondon