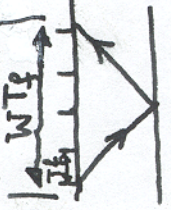


1st packet lost
w=4

Assumption

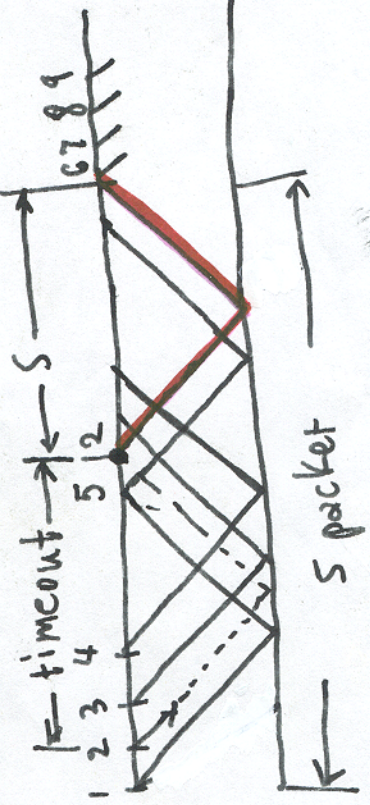


$WT_f =$
timeout
 $= S$

Round trip assumption

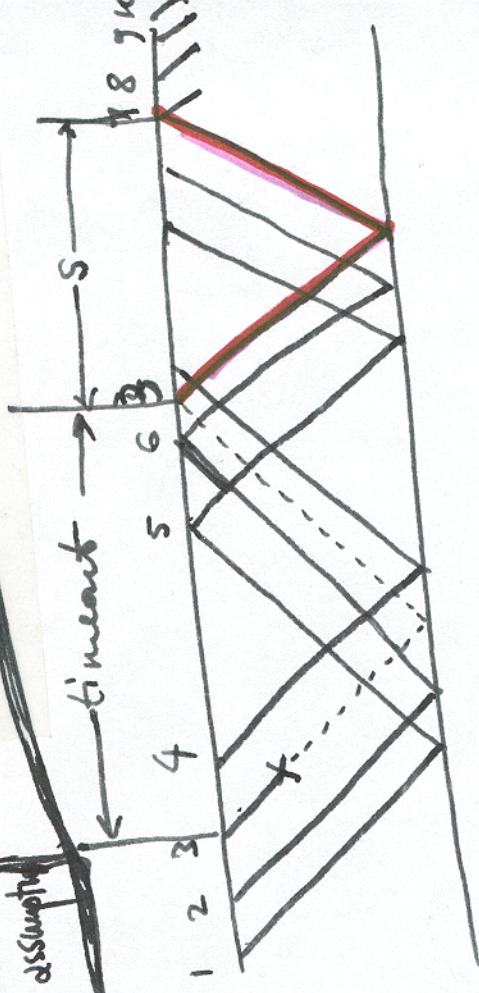
In $S + \text{timeout}$ we transmit 4 packets

1st packet $N_1 = 4$, $T_1 = S + \text{timeout} = 2S$
Cost $= 2W \cdot T_f$



2nd packet lost
w=4

$N_2 = 5$, $T_2 = T_f + \text{timeout} + S$
 $= 2WT_f + T_f$
 $= (2W + (2-1)) T_f$

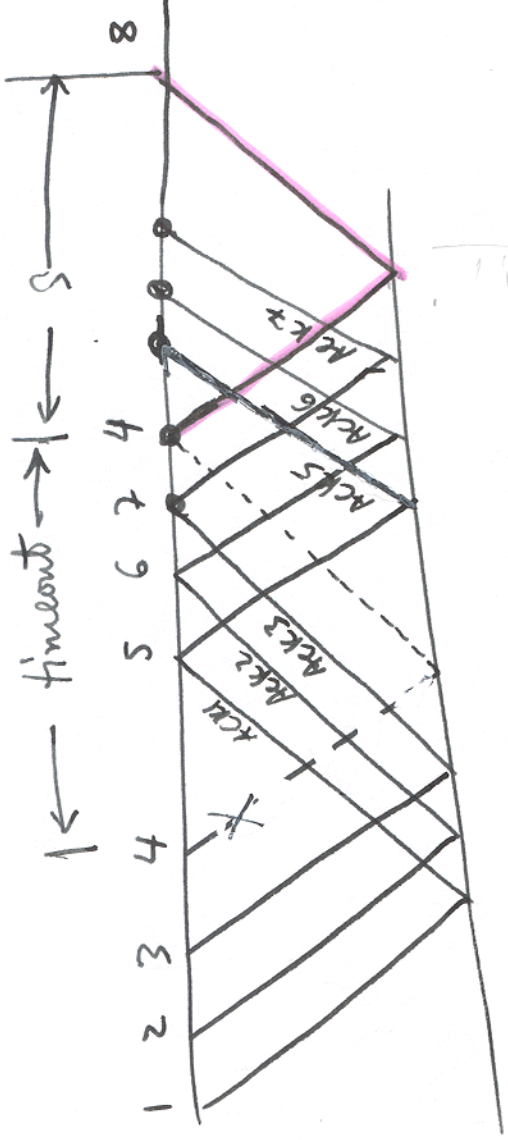


$T_3 = (2W + (3-1)) T_f$

$N_3 = 6$

3rd packet lost, $w=4$

1 2 3 4 5 6 7 8



4th packet lost
W=4