

Nov-13-2014

Note Title

8/28/2014

HW # 10

$$\#3 \quad DBP = 2\tau R$$

$$R = 1 \text{ mb/s} \quad 2\tau = 1 \text{ ms} \rightarrow DBP = 1000 \\ = \text{# bits in RTT}$$

$$R = 1 \text{ Gb/s} \quad 2\tau = 1 \text{ ms} \rightarrow DBP = 1 \times 10^6$$

b)  $S/N = 1 \text{ bits}$  counting frames (packets)

$$N \approx 2^n - 1 = 65,535$$

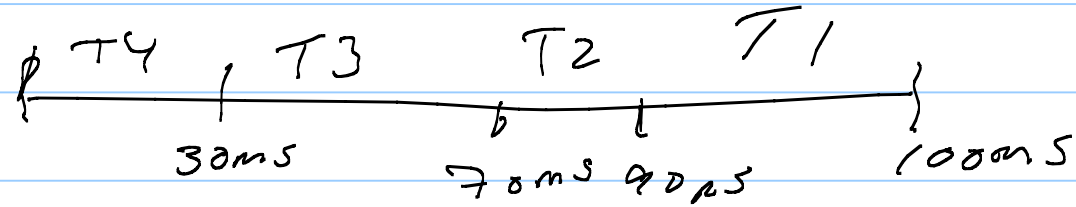
$$\frac{(65,535) 10^4}{10^4} = 653 \text{ sec}$$



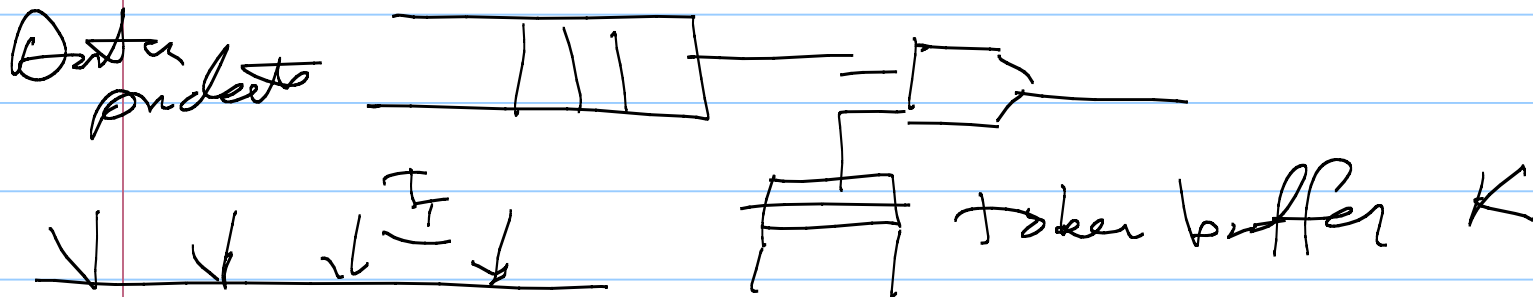
$$N = 8$$

H/W #9 #4 at Station (node)  $i$

Tolerances



- Open loop rate control
  - Average & max burst size
  - Implementation + over budget



- Loss priority Bit  $DS = 0$

do not drop

$DS = 1$

drop of congestion

- HDLC

Frame types + I, S (w)   
 └── Set

+ Frame Structure

- PPP

TCP

+ Socket = IP address + Port #

- UDP

- TCP

- + Units in Bytes
- + Flow control
- + Congestion control
- + Error recovery