

4. ~~Find~~ ~~the~~ ~~value~~ ~~of~~ ~~the~~ ~~expression~~ ~~10x + 10y + 10z~~
Post: ~~the~~ ~~value~~ ~~of~~ ~~the~~ ~~expression~~ ~~10x + 10y + 10z~~ URL: ~~the~~ ~~value~~ ~~of~~ ~~the~~ ~~expression~~ ~~10x + 10y + 10z~~

- new ACK
- $count = count + MSS$
- $dupAckCount = 0$
- $count = MSS - 1$
- $transmit + new segment(s)$
- duplicate ACK
- $dupAckCount++$
- $count \geq seqhead$
- new ACK
- $count = count + MSS (MSS / count)$
- $dupAckCount = 0$
- transmit new segments

timeout
 Slow Start
 timeout
 Congestion Avoidance
 duplicate ACK
 duplicate transmission

Sethead = cwnd/2
cwnd = 1 MSS

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dupl. of count = 0
retransmit missing segment

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retransmit missing segment

dupl fcount = 3	timeout ssthresh = cwnd/2	new ACK cwnd = ssthresh dupl fcount = 0	acknowledge dupl fcount = 3 ssthresh = cwnd/2
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[illegible]

- Connotation: Control,
 network's missing segment
 (lost leaving) \leq
 duplicate Ack
 (duplicate's missing)

curnd = curnd + MSS
 throw out new segment (i)

5. Performance Time out: $\lfloor \frac{1}{2} RT \rfloor + 4 \cdot \text{dev } RT$

received; no buffer
relevant. send ACK for px; no buffer.

[illegible][illegible]

$\frac{1}{\lambda} = \frac{1}{\lambda_0} \sqrt{1 - \frac{v^2}{c^2}}$
 $\frac{1}{\lambda} = \frac{1}{\lambda_0} \sqrt{1 - \frac{1}{9}}$
 $\frac{1}{\lambda} = \frac{1}{\lambda_0} \sqrt{\frac{8}{9}}$
 $\frac{1}{\lambda} = \frac{1}{\lambda_0} \cdot \frac{\sqrt{8}}{3}$
 $\lambda = \frac{3}{\sqrt{8}} \lambda_0$
 $\lambda = \frac{3}{\sqrt{8}} \cdot 1.06 \text{ nm}$
 $\lambda = 0.375 \cdot 1.06 \text{ nm}$
 $\lambda = 0.3975 \text{ nm}$
 $\lambda = 397.5 \text{ nm}$

[illegible][illegible]

\bullet $\text{AMB} - \text{TW} > 1 \times \square \xrightarrow{\text{Z.3}} \square$
 \bullet P's gets a det is seen as less than $\text{AMB}(\text{P's})$
 $\text{AMB} = \text{TW} \quad \text{[3.1] ... 6.1 \times}$
 $\text{AMB} = 10.5 \quad \text{[3.1] ... 6.5}$
 $\text{AMB} = 3 + \frac{1}{2}$
 $\text{TW} = 4 + \frac{1}{2}$

So for 2 - we need 200

$\omega = 5.5 \text{ rad/s}$

104-105-106

