

9/29/06

## Test 1.

1. Network (25-30%)
2. Cryptography (25-35%)
3. Key Distribution  
& Management (30-45%)

Bandwidth  
Transmission Delay  
Propagation Delay  
Processing Delay  
Queuing Delay

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Proc  $\frac{48 \times 8}{64 \times 1000}$  secs = 6 msec

Tran  $\frac{48 \times 8}{106} = 384 \mu\text{sec}$

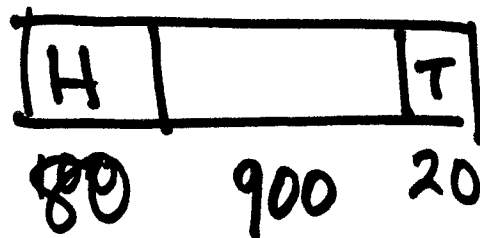
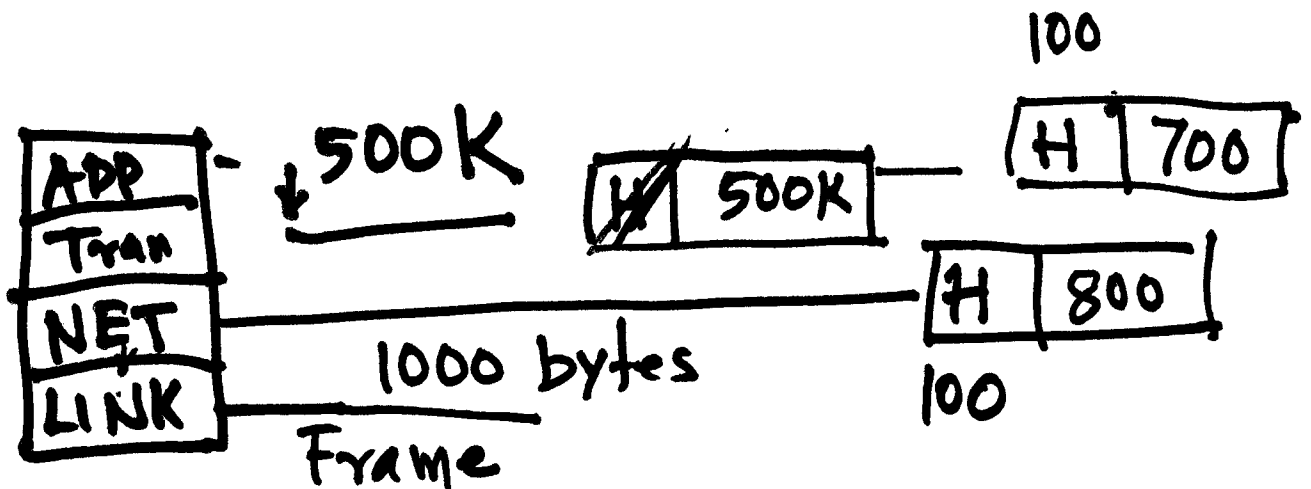
Prog 2 msec.  
+ 6 msec.

Total Delay  
(6 + 384 + 2) msec  
= 8.384 msec

Message size, Packet size  
Frame size.

500 K bytes

Fixed size 1000 bytes



$$\begin{array}{r}
 500000 \\
 \hline
 700 \\
 \hline
 71482 \\
 \hline
 7 \overline{) 5000} \\
 \underline{49} \\
 10 \\
 \underline{7} \\
 30 \\
 \underline{28} \\
 2
 \end{array}$$

~~Subst~~

Substitution

Transposition

DES - S-Box

RSA -

Diffie-Hellman

$(e, n)$

$(d, n)$