

Oct - 28 - 2014

Note Title

8/28/2014

MAC

- Polling (fibre)

$m = \# \text{ nodes}$

$\tau = \text{prop time between nodes}$

$C = \text{cap}$

$$\tau_R = m\tau/2$$

effective size of network $= a' = \frac{\tau_R}{L/C}$

$S_{\max} \downarrow a' \uparrow$

- Random Access

+ Algorithm TX & wait for Ack

if no Ack then RETX

- Ack timer
- Assume if no ack \rightarrow collision
- Backoff algorithm

+ Time

- unslotted \rightarrow no sync
- slotted \rightarrow pay for sync

+ Net State

- CS \rightarrow reduces time you are vulnerable to collision
- CD

+ Flavors of RA nets (slotted or unslotted)

- ALOHA
- p-persistent CSMA
- non-persistent

know
base
#s

{ + $S_{max} = 18\%$ for unslotted
ALOHA
= 36% , for slotted

+ S_{max} CSMA

effective size of net = $a = \frac{\tau}{(C)}$

~~Q~~

Sort \downarrow sort

* $CSON A + \text{min packet size}$
keep a small

+ max packet size for
binaries