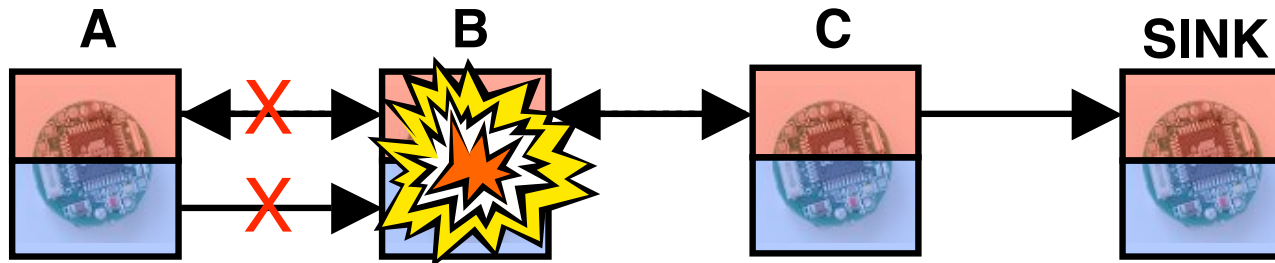


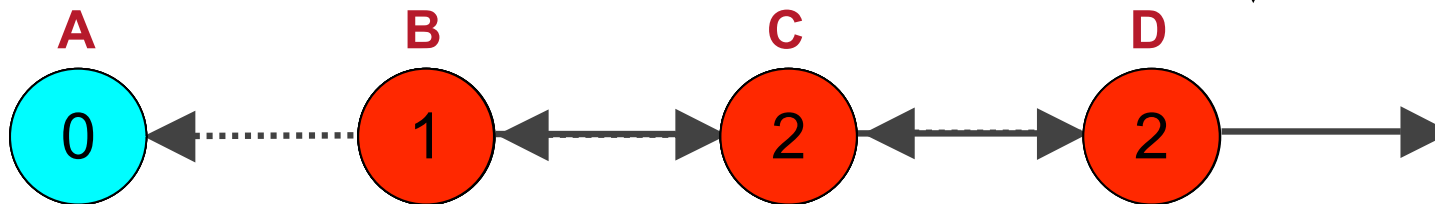
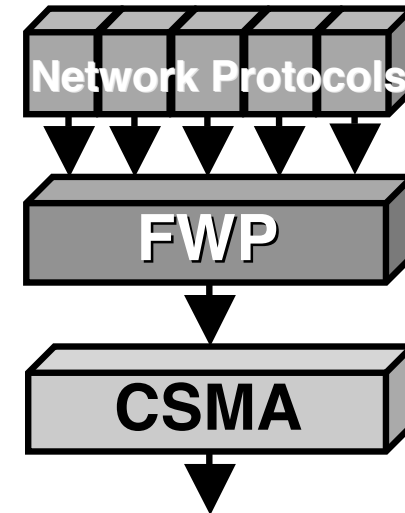
Fair Waiting Protocol (FWP)

- ❖ Motivation: Vulnerability to inter-protocol interference



- ❖ provides *isolation* and *fairness* for network protocols at layer 2.5

- ❖ **Grant-To-Send** mechanism using one additional header byte
- ❖ Sender and overheard should be quiet
- ❖ Fair Queueing based on channel usage



Fair Waiting Protocol (FWP)

- ❖ More stable operation even under heavy traffic loads
- ❖ Quiet Time Selection
 - ❖ The time by which the recipient will respond to transmitted packet
- ❖ Protocols must tolerate longer Time-in-Queue
 - ❖ e.g. no hard timeouts in network protocols
- ❖ Implemented in TinyOS 2.x for CC2420
- ❖ More details can be found at the technical report :
 - ❖ <http://sing.stanford.edu/pubs/sing-06-03.pdf>

