CSE/EE 461 – Lecture 4

Error Detection and Correction

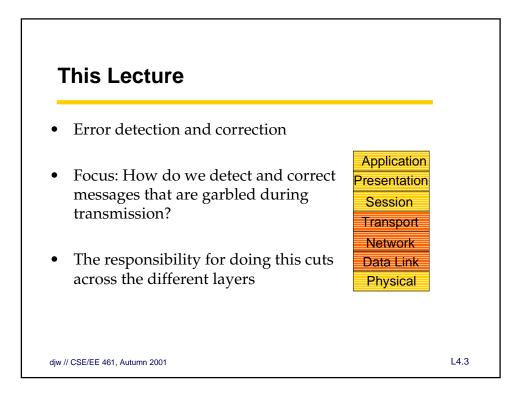
David Wetherall djw@cs.washington.edu

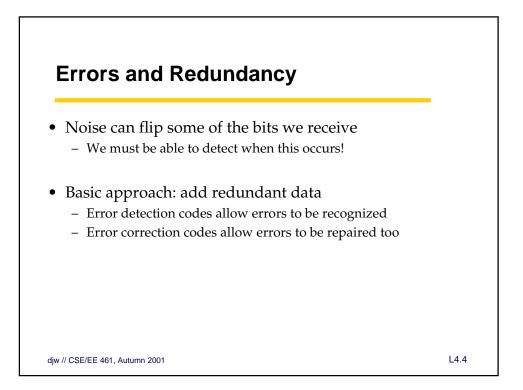
Last Time

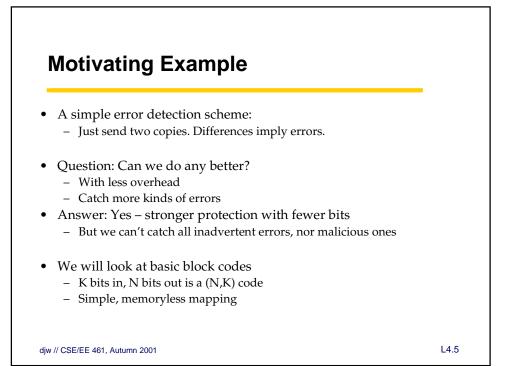
- Different media have different properties that affect higher layer protocols.
- We abstract media into a simple model of a link
- To send messages over a link we must frame them

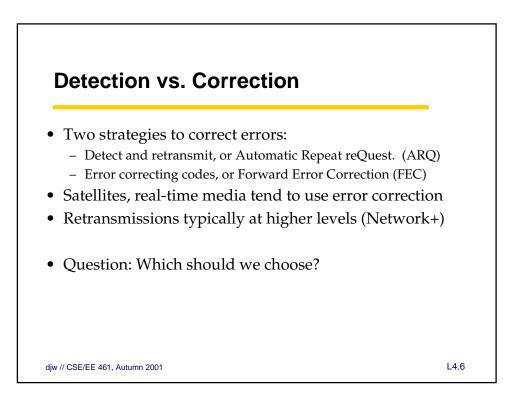
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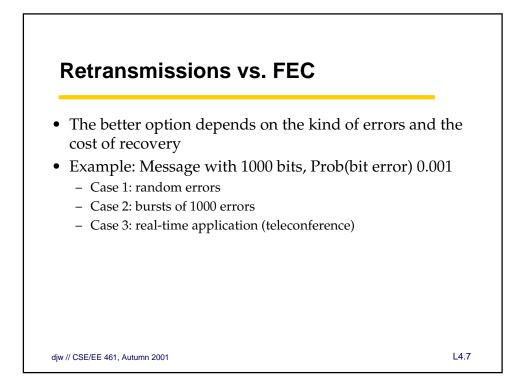
L4.2

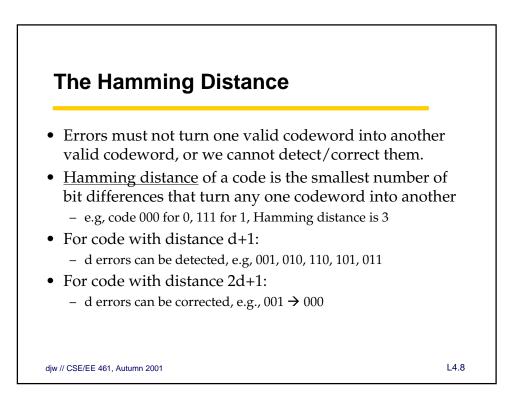


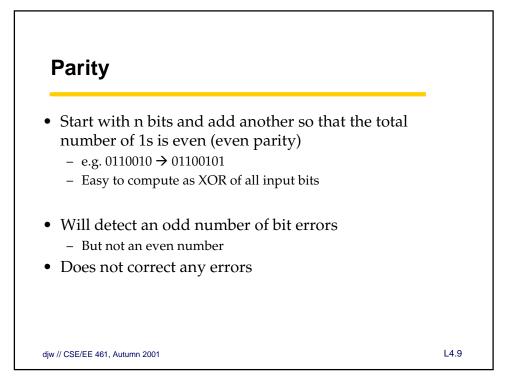




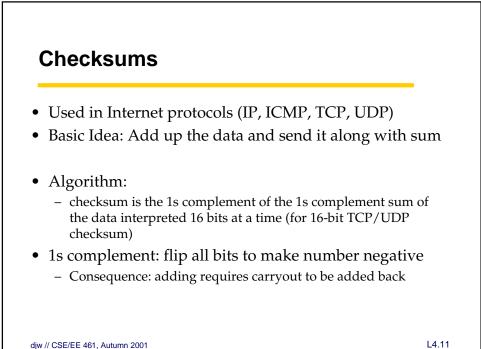








• Add parity row/column to array of		
 bits Detects all 1, 2, 3 bit errors, and many errors with >3 bits. Corrects all 1 bit errors 	0101001 1101001 1011110 0001110 0110100 1011111	1 1 1
-	→ 1111011	0 ← ↑



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