CSE/EE 461 – Lecture 4

Error Detection and Correction

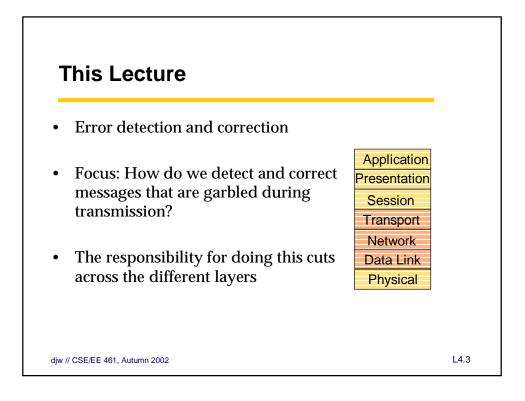
David Wetherall djw@cs.washington.edu

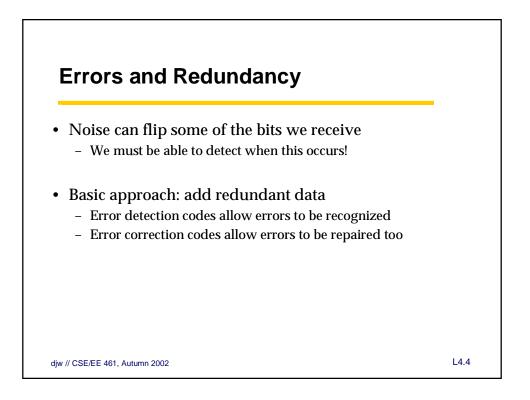
Last Time

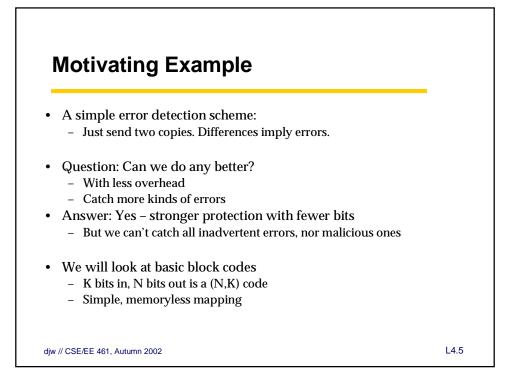
- Different media have different properties that affect higher layer protocols.
- We abstract media into a simple model of a link
- To send messages over a link we must frame them

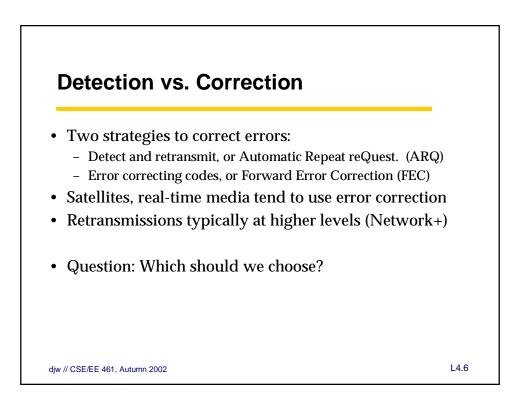
djw // CSE/EE 461, Autumn 2002

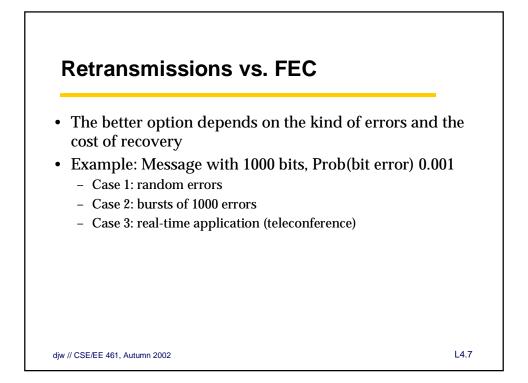
L4.2

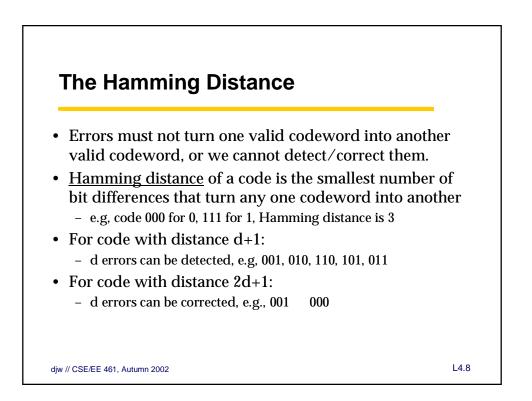


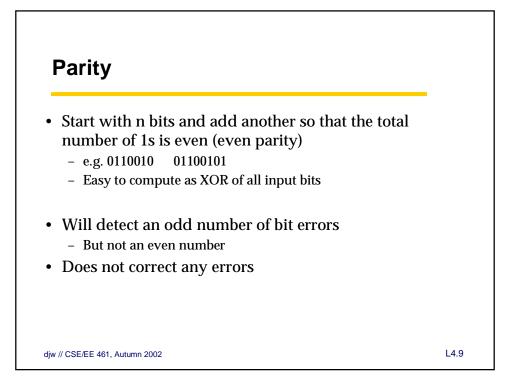












2D Parity		
 Add parity row/column to array of bits 		Ļ
 Detects all 1, 2, 3 bit errors, and many errors with >3 bits. Corrects all 1 bit errors 	0101001 1101001 1011110 0001110 0110100 1011111	1
	→ 1111011	0 ← ↑

