

Outline for May 5, 2006

Reading: text, §8.5, 16.1–16.2

1. Greetings and felicitations!
 - a. No class on Monday
 - b. Homework 1 answers and grades on MyUCDavis
2. Restrictiveness
 - a. State machine model
 - b. Composing restrictive systems
3. Information flow
 - a. Information flow policy, confidentiality policy, integrity policy
 - b. Example
4. Entropy
 - a. Random variables
 - b. Joint probability
 - c. Conditional probability
 - d. Entropy (or uncertainty in bits)
 - e. Joint entropy
 - f. Conditional entropy
5. Entropy-based analysis
 - a. Flow of information from x to y
 - b. Implicit flow of information
6. Nonlattice policies
 - a. Transitivity
 - b. Information flow policy