

Outline for January 3, 2007

1. Greetings and Felicitations!
 - a. Go over class handouts
2. Access control matrix and entities
 - a. Subject, objects (includes subjects)
 - b. State is (S, O, A) where A is access control matrix
3. Transitions modify access control matrix entries; primitive operations
 - a. enter r into $A[s, o]$
 - b. delete r from $A[s, o]$
 - c. create subject s (note that for all x , $A[s', x] = A[x, s'] = \emptyset$)
 - d. create object o (note that for all x , $A[x, o'] = \emptyset$)
 - e. destroy subject s
 - f. destroy object o
4. Commands and examples
 - a. Regular command: *create•file*
 - b. Mono-operational command: *make•owner*
 - c. Conditional command: *grant•rights*
 - d. Biconditional command: *grant•read•if•r•and•c*
 - e. Doing “or” of 2 conditions: *grant•read•if•r•or•c*
 - f. General form
5. Miscellaneous points
 - a. Copy flag and right
 - b. *Own* as a special right
 - c. Principle of attenuation of privilege