

Outline for February 1, 2006

Reading: text, §2, 3.1–3.2, 4.1–4.3

1. Greetings and felicitations!
 - a. Puzzle of the day
2. Access Control Matrix
 - a. Commands and conditions: *create-file*, various flavors of *grant-right* to show conditions and nested commands
 - b. Copy flag
 - c. Attenuation of privileges
3. HRU Result
 - a. Notion of leakage in terms of ACM
 - b. Determining security of a generic system with generic rights and monooperational commands is decidable
 - c. Determining security of a generic system with generic rights is undecidable
 - d. Meaning: can't derive a generic algorithm; must look at (sets of) individual case
4. Policy
 - a. Sets of authorized, unauthorized states
 - b. Secure systems in terms of states
 - c. Mechanism vs. policy
5. Types of Policies
 - a. Military/government vs. confidentiality
 - b. Commercial vs. integrity