February 14, 2023 Outline

Reading: *text*, §9

Assignments: Homework #3, due February 23
Project Progress Report, due February 14

1. Deterministic noninterference
    (a) Model of system
    (b) Example
    (c) Relationship of output to states
    (d) Projections and purge functions
2. Alternative definition of security policy
    (a) Output-consistent
    (b) Security policy
    (c) Noninterference-secure with respect to the policy r
3. Unwinding Theorem
    (a) Locally respects
    (b) Transition-consistent
    (c) Unwinding theorem
4. Access Control Matrix interpretation
    (a) Model
    (b) ACM conditions
    (c) Policy conditions
    (d) Result
5. Policies that change over time
    (a) Generalization of noninterference
6. Nondeducibility
    (a) Event system
    (b) Deducibly secure
    (c) Composing deducibly secure systems
7. Generalized noninterference
    (a) Assumptions and nondeducibility
    (b) Composing generalized noninterference systems