

March 10, 2021 Outline

Reading: *text*, §18.3

Assignments: Homework #5, due March 12
Completed Project, due March 12

Module 52

1. Information flow analysis
 - (a) Direct, indirect flows
2. Covert flow trees
 - (a) Goals, symbols
 - (b) Construction of covert flow trees
 - (c) Analysis
 - (d) Example

Module 53

3. Capacity
 - (a) When is bandwidth of covert channel?
 - (b) Analysis
 - (c) Measuring capacity

Module 54

4. Mitigating covert channels
 - (a) Preallocation and hold until process terminates
 - (b) Impose uniformity
 - (c) Randomize resource allocation
 - (d) Efficiency/performance vs. security