

## Lecture 13: April 26, 2021

**Reading:** *text*, §5.3, 6.1–6.2, 6.4

**Assignments:** Lab 2, due May 5, 2021  
Homework 3, due May 7, 2021

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1. Tranquility
  - (a) Declassification problem
  - (b) Strong tranquility
  - (c) Weak tranquility
2. Requirements of integrity models
3. Biba Model (strict integrity policy)
4. Clark-Wilson Model
  - (a) Theme: military model does not provide enough controls for commercial fraud, etc. because it does not cover the right aspects of integrity
  - (b) Components
    - i. Constrained Data Items (CDI) to which the model applies
    - ii. Unconstrained Data Items (UDIs) to which no integrity checks are applied
    - iii. Integrity Verification Procedures (IVP) that verify conformance to the integrity spec when IVP is run
    - iv. Transaction Procedures (TP) takes system from one well-formed state to another