

Lecture 7: April 13, 2026

Reading: *text*, §5.3, 6.1–6.2, 6.4

Due: Homework 2, due April 24, 2026

1. Greetings and felicitations!
2. Example: Trusted Solaris
3. Tranquility
 - (a) Declassification problem
 - (b) Strong tranquility
 - (c) Weak tranquility
4. Requirements of integrity models
5. Biba Model (strict integrity policy)
6. 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