Outline for April 19, 2006

Reading: *text*, §5.2—5.4

1. Greetings and felicitations!
2. BLP: formally
   a. Basic Security Theorem: A system $\Sigma(R, D, W, z_0)$ is secure iff z_0 is a secure state and W satisfies the conditions of the above three theorems for each action.
3. BLP: formally
   a. Define ssc-preserving, *-property-preserving, ds-property-preserving
   b. Define relation $W(\omega)$
   c. Show conditions under which rules are ssc-preserving, *-property-preserving, ds-property-preserving
   d. Show when adding a state preserves those properties
   e. Example instantiation: *get-read* for Multics
4. Tranquility
   a. Strong tranquility
   b. Weak tranquility
5. System Z and the controversy