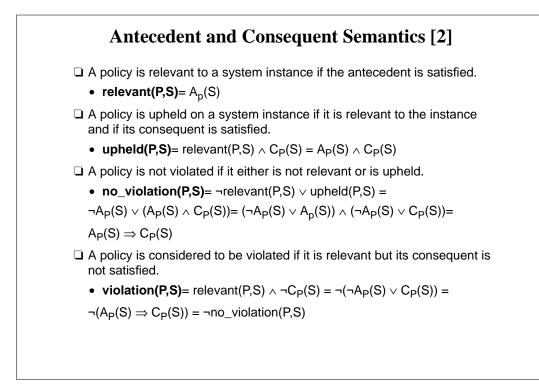
Antecedent and Consequent Semantics

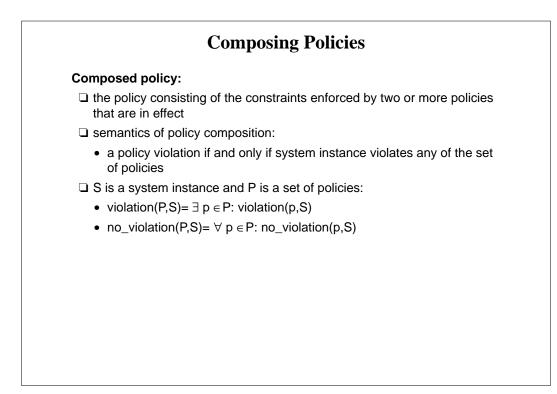
When applying a policy to a system instance:

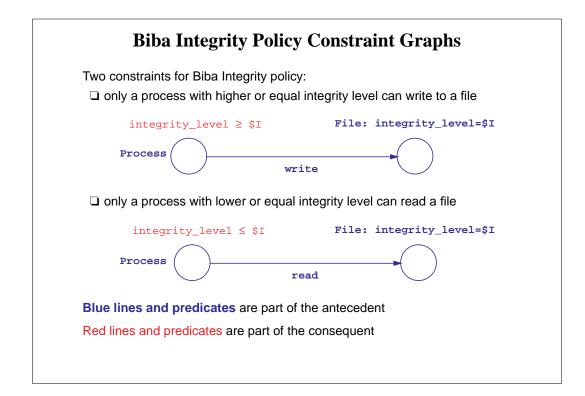
- 1. If the antecedent applies:
- 2. check the consequent to see if the policy was upheld

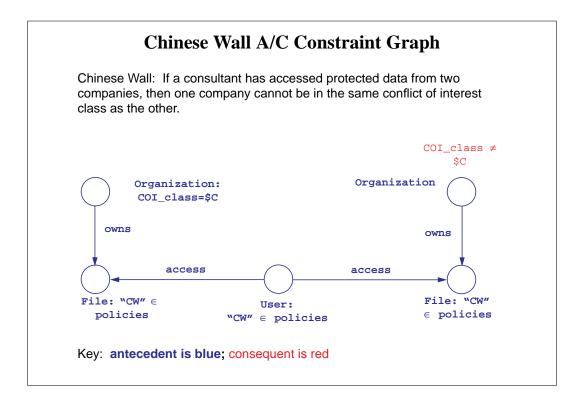
For the following:

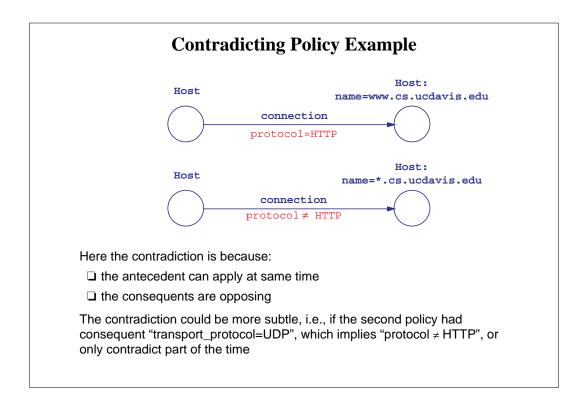
- □ let S be a system instance
- Let P be a policy in effect on that system
- \Box let $A_p(s)$ be true iff s satisfies the antecedent of p
- \Box let C_p(s) be true iff s satisfies the consequent of p











Advantages to this Approach

It is expressive:

Ianguage is independent of the semantics of the entities and relationships

- nodes are independent of the specific entity
- edges can represent any relationship

It is formal:

□ can reason about policies expressed in the language

□ can enforce all policies in the same way

It is separate from the system model