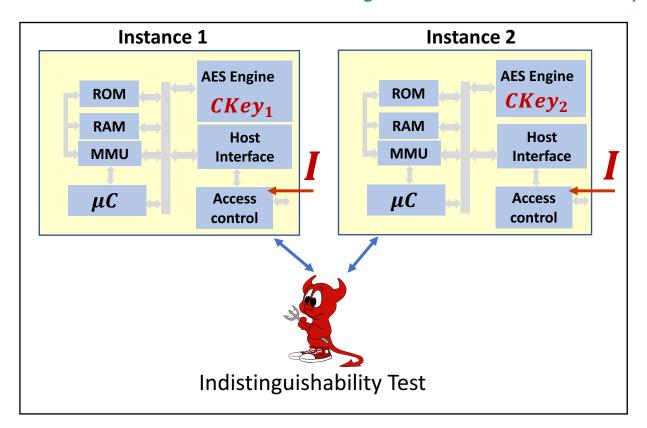
## Towards Scalable SoC Security Validation

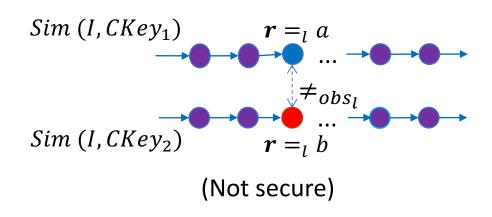
Sujit Kumar Muduli Indian Institute of Technology, Kanpur

## Objective

## **Proving confidentiality and integrity**

show execution traces are indistinguishable to untrusted entity





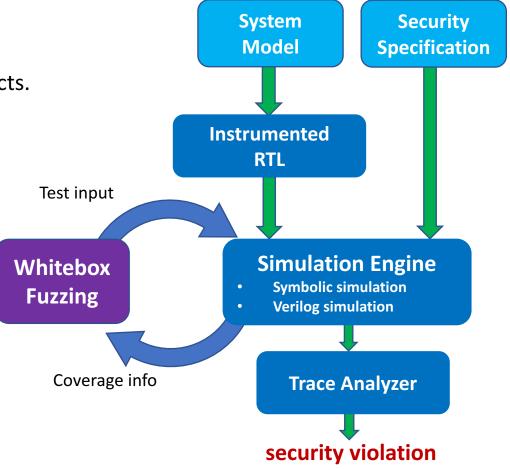
**Goal: automated technique for finding 2-safety hyperproperty violations** 

## Challenges

1. Specifying properties for end-to-end security.

2. Specification and Model must capture adversarial effects.

3. Scalability issue in verification process.



A semi-formal technique to find 2-safety violations