Hardware Trojan Detection

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- Introduction
 - Hardware Trojans
 - Relevance

- 2 Detection
 - Destructive detection
 - Nondestructive detection
- 3 Conclusion





What are hardware trojans?

- Malicious modification of an IC
- Conists of a trigger and a payload
- Triggers: Time bombs, cominational, analog . . .
- Payloads: Denial of service, extraction of information, keys





Why is detecting them relevant?

- Military
- Finance
- Second Energy
- Government agencies
- Surveillence states





Reverse Engineering

- Removing the surface layer by layer
- Advantages:
 - 100 % detection rate
- Disadvantages:
 - Only tests a single chip





Types of detection

