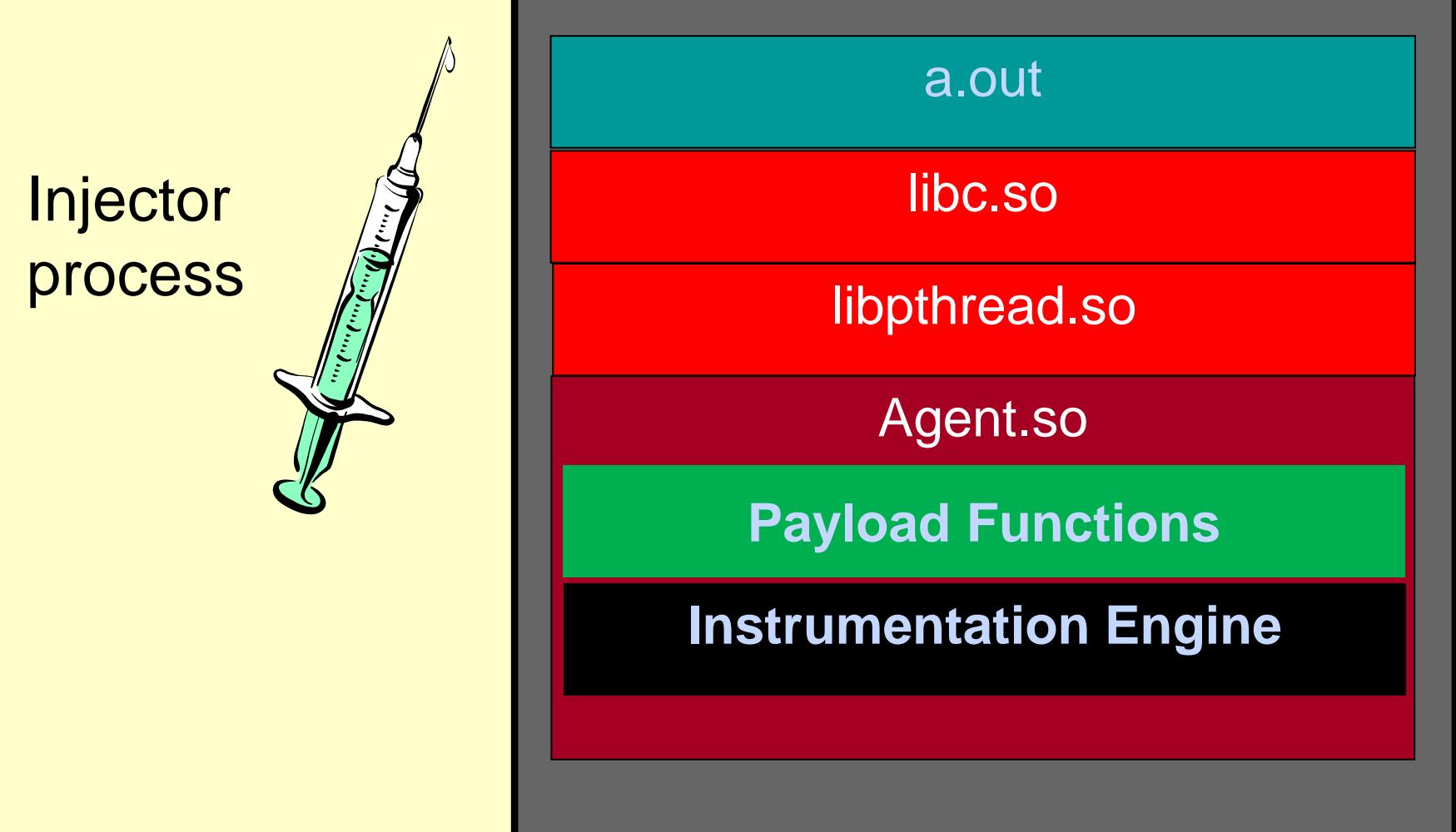


## Overview

- Inject initial instrumentation into the system at runtime
- The instrumentation inserts more instrumentation ahead of the flow of control

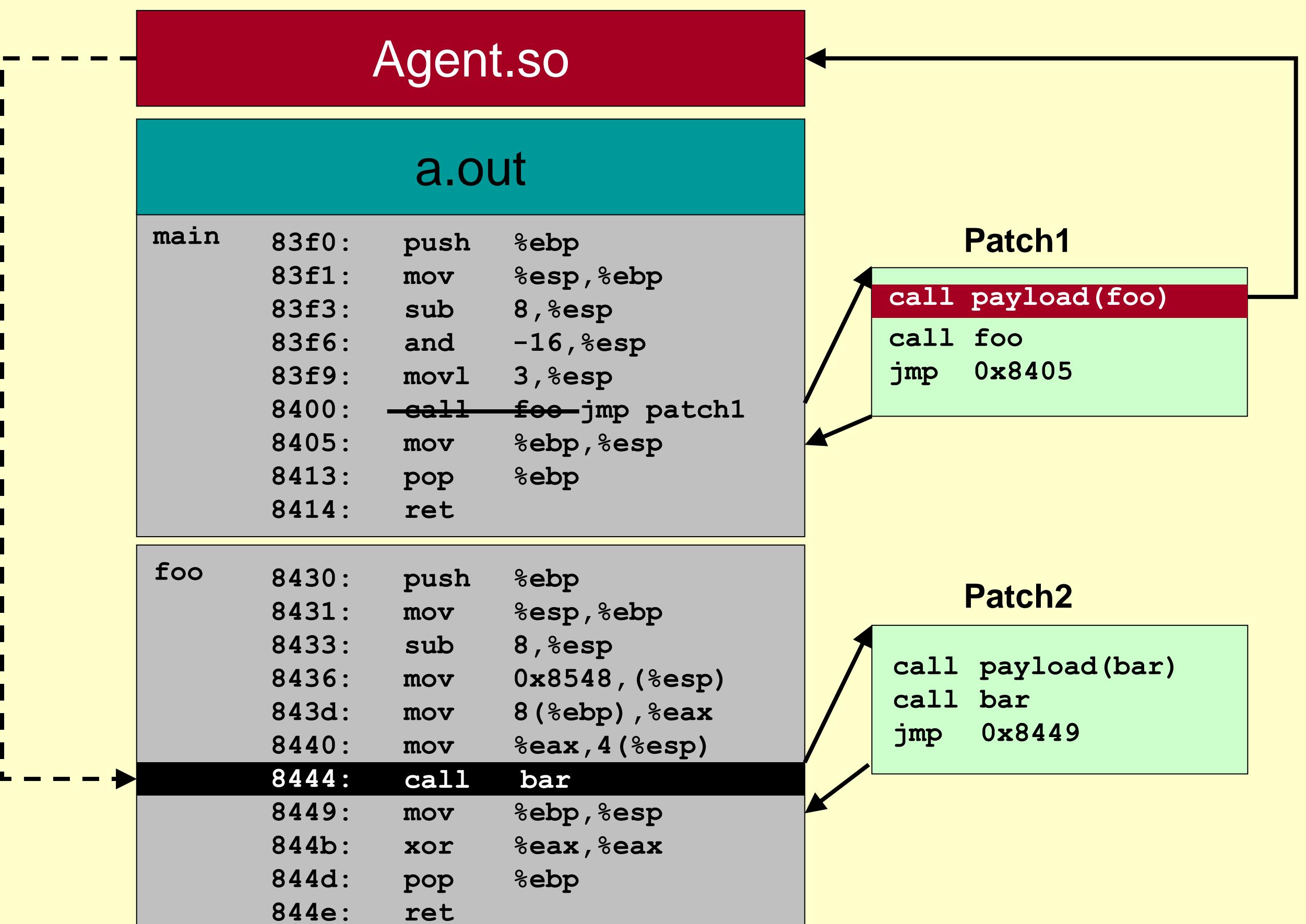
## Components

- **Injector:** forces an application process to load a shared library
- **Agent:** a shared library
  - Payload function: contains user-specified code
  - Instrumentation engine

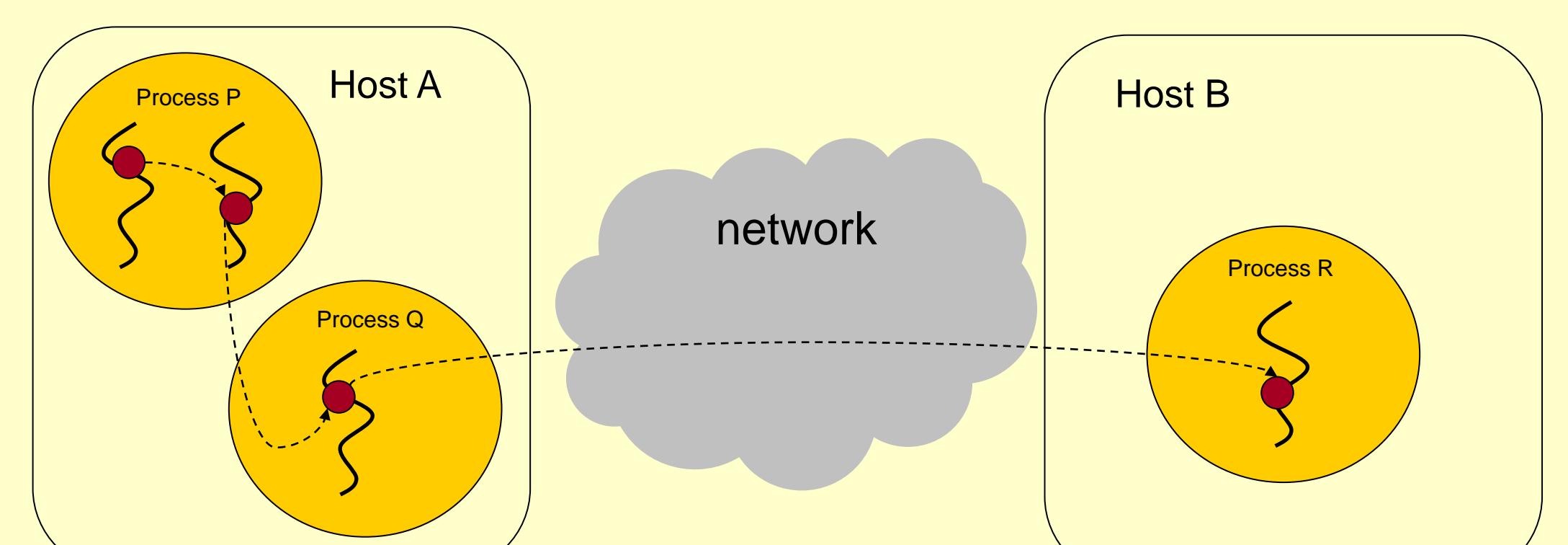


## Instrumentation Propagation

- Instrumentation propagates within a process by following control flow

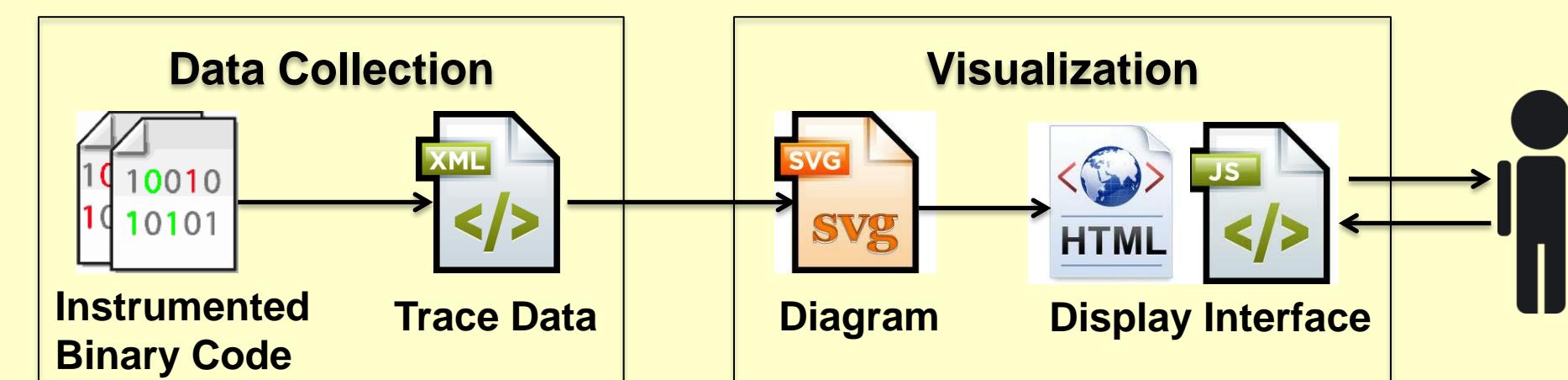


- Instrumentation propagates across thread, process, and host boundaries by following communication flow



## Application: Visualization for Security Analysis

- Goal: automate diagram construction for security assessment



- Data collection
  - Use self-propelled instrumentation
  - Detect system events and security properties
- Diagram construction from trace data

