Syscord: Real-time capturing of system calls on ARM

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Outline

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1 Introduction
- Record and Replay
- Non-deterministic events

2 Desgin

3 Evaluation

4 Bibliography

- Record and replay: record at runtime, replay in other place
- How to record a program?
  - Control flow: Intel PT, ARM ETM
  - Non-deterministic event: some instructions's impacts vary in re-execution
  - For example: read something

Typically non-deterministic events:

- **syscalls**
- interrupt
- trap
- signal
- ...

In Syscord, we focus on the most common case: syscall

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