Instructions and Machine State

- Selfie uses special procedures (`_before()` & `_after()`) that show on which part of the machine state they depend, which part they modify and the modification itself.

- This information is enough to determine the machine state at any point of execution (completely deterministic).

- The only way to inject information from outside that is not known beforehand is through the read call.

rs1	|- rd	-> rd
read only dependency in control flow	will be modified	new value after modification

Instructions and Formats

RISC-U

lui	beq
addi	jal
add	jalr
sub	ld
mul	sd
divu	sltu
remu	ecall

special case of `addi`
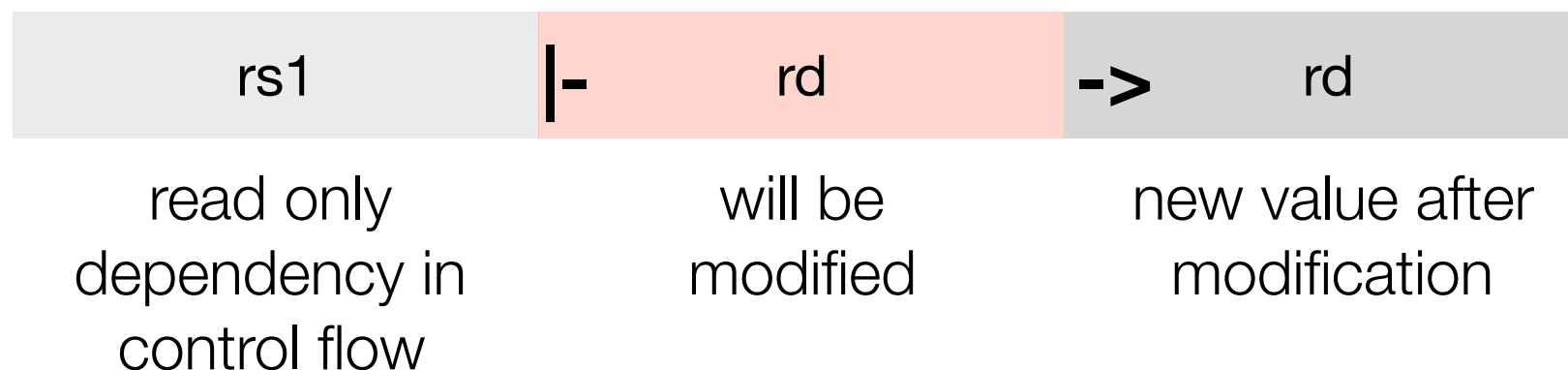
nop

Formats

- R-format
- I-format
- S-format
- B-format
- J-format
- U-format

Instructions and Machine State

- Selfie uses special procedures (`_before()` & `_after()`) that show on which part of the machine state they depend, which part they modify and the modification itself.

rs1	|- rd	-> rd
read only dependency in control flow	will be modified	new value after modification

- This information is enough to determine the machine state at any point of execution (completely deterministic).

- The only way to inject information from outside that is not known beforehand is through the read call.