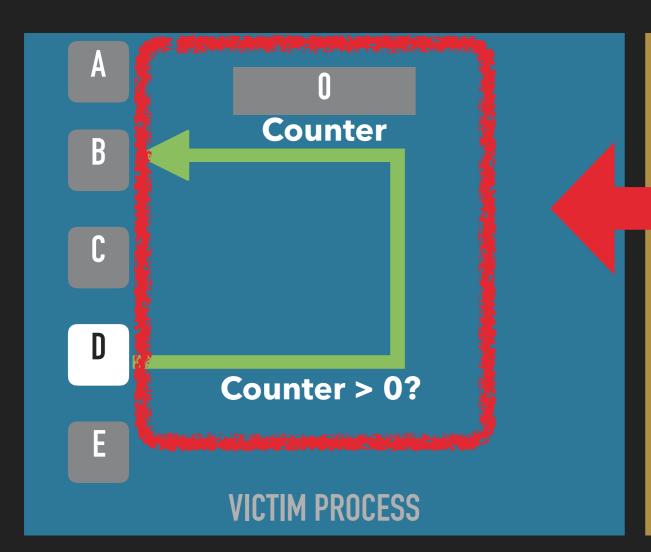
SPECTRE: SPECULATIVE EXECUTION





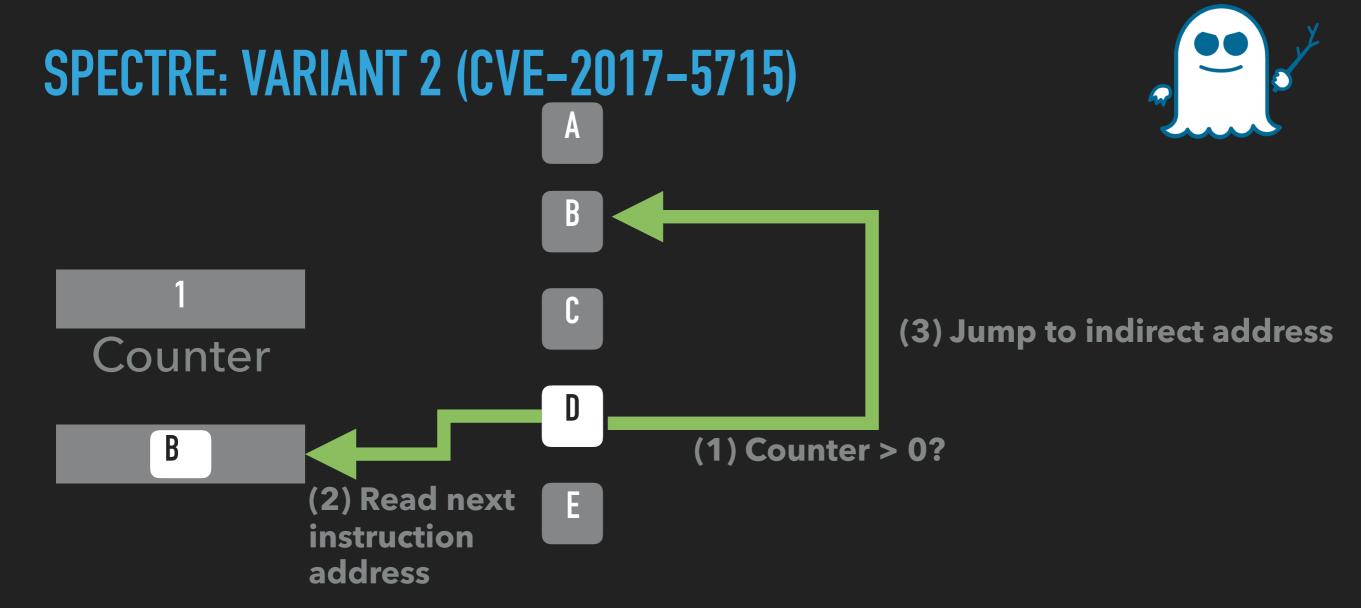
- 1. Prime the branch prediction to expect a loop
- 2. Make sure Counter is not cached so the CPU is more likely to speculatively run the code
- 3. Find a way that victim leaks data when B & C are executed speculatively

ATTACKER PROCESS

Attacker can influence the CPUs branch prediction of victim.

Making the victim speculatively execute "wrong" code.

E.g. loop even when Counter is == 0.



- The conditional jump (branch) now is an *indirect jump*.
- Indirect jumps use addresses stored "somewhere else".
- This can also be used to *speculatively* execute any code found in the target process (kernel).