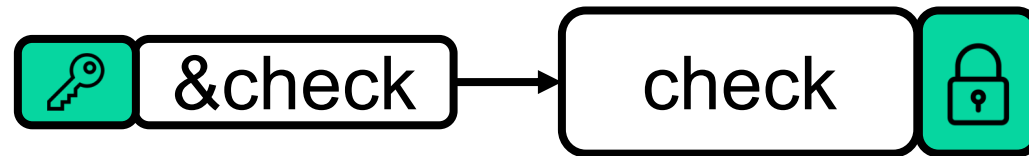
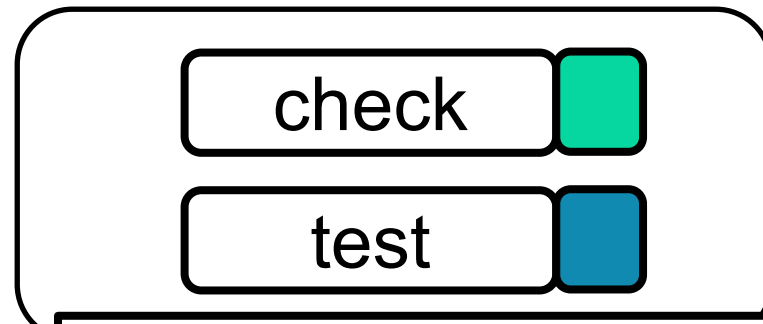


# Leak by Cache Side-Channel

A. **Valid** tag in check\_ptr



Cache

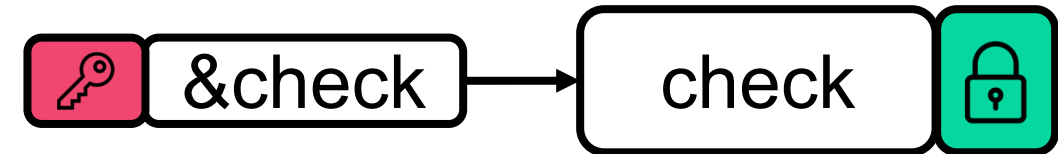


Load(test\_ptr);

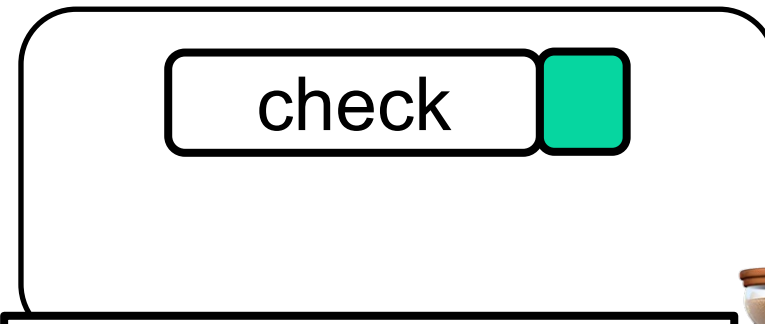


**Fast**

B. **Invalid** tag in check\_ptr



Cache



Load(test\_ptr);



**Slow**

**Leak whether the tag is **Valid/Invalid** by  
test\_ptr access latency!**