## Memory Access

- Where is the memory located? Cache - L1, L2 etc. RAM
  - Disk

Constantly "poke" memory with a dedicated low-priority thread

Memory could be paged to disk if it is large and the system runs out of memory

mlock()/munlock() (POSIX)

between RT callbacks

Page faults

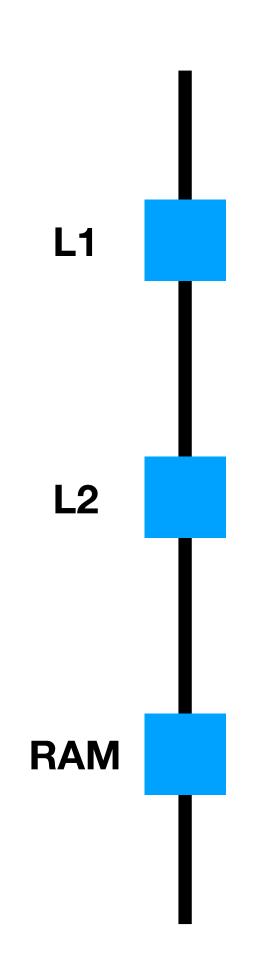
- - VirtualLock()/VirtualUnlock() (Windows)



## Memory Access

- Where is the memory located?
  - Cache L1, L2 etc.
  - RAM
  - Disk
- Page faults
  - Memory could be paged to disk if it is large and the system runs out of memory between RT callbacks
  - Constantly "poke" memory with a dedicated low-priority thread
  - mlock()/munlock() (POSIX)
  - VirtualLock()/VirtualUnlock() (Windows)

## Memory Access



3 cycles

20 cycles

200+ cycles