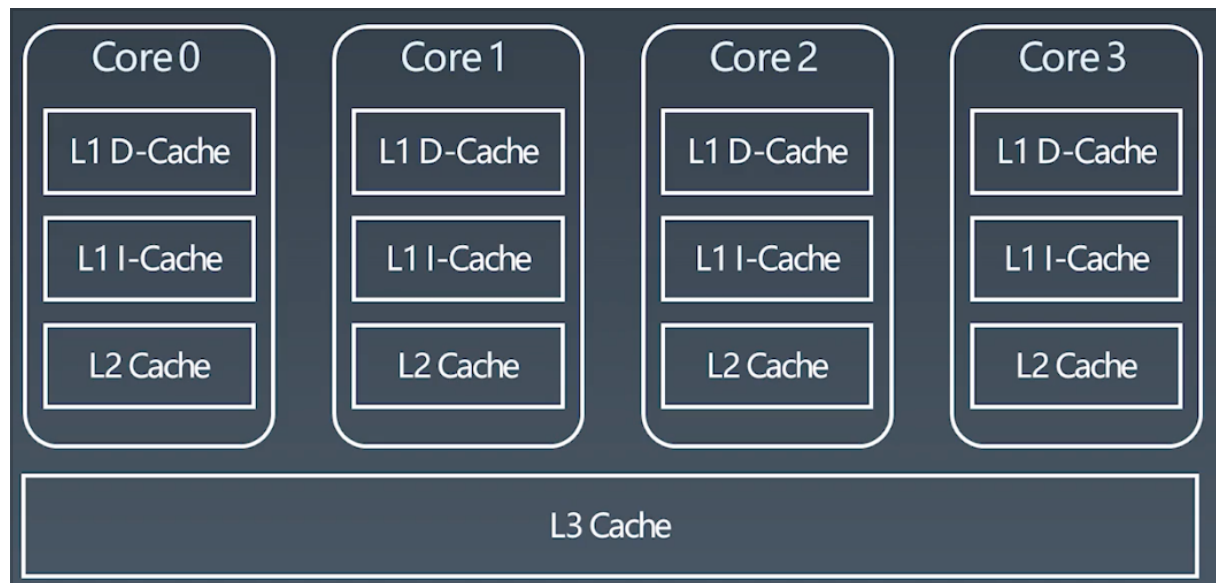


22. LRU Cache

Cache 缓存

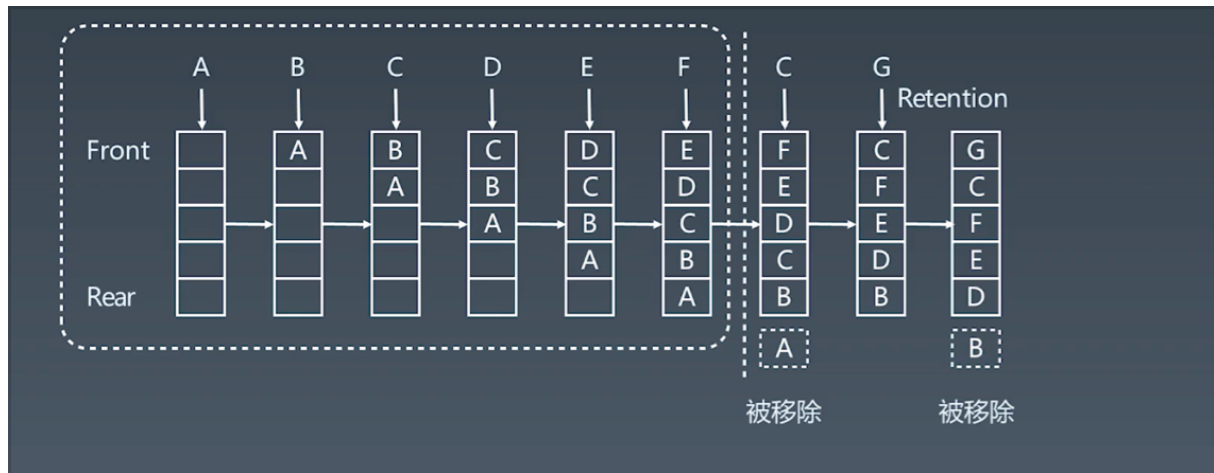
1. 记忆
2. 钱包、储物柜
3. 代码模块
4. CPU – CPU Socket : [Understanding the Meltdown exploit](#)



LRU Cache

- 两个要素：
 - 大小
 - 替换策略
- Hash Table + Double Linked List
- 时间复杂度：
 - 查询： $O(1)$
 - 修改： $O(1)$
 - 更新： $O(1)$

LRU Cache 工作示例图



A front push → B front push → C front push → D front push → E front push →
 F full → A tail pop → F front push → G full → B tail pop → G front push

替换策略

- LFU – Least Frequently Used
- LRU – Least Recently Used
- 替换算法总览

示例代码

LRU 示例代码

#Algorithm/Part II : Theory/Data Structure#