17-10-2012 Note Title Opcode (ADD/Ld/st/Br) TRACE 10 million + Correct

Set. - []

Cache Lines.

Extra state with cache line:

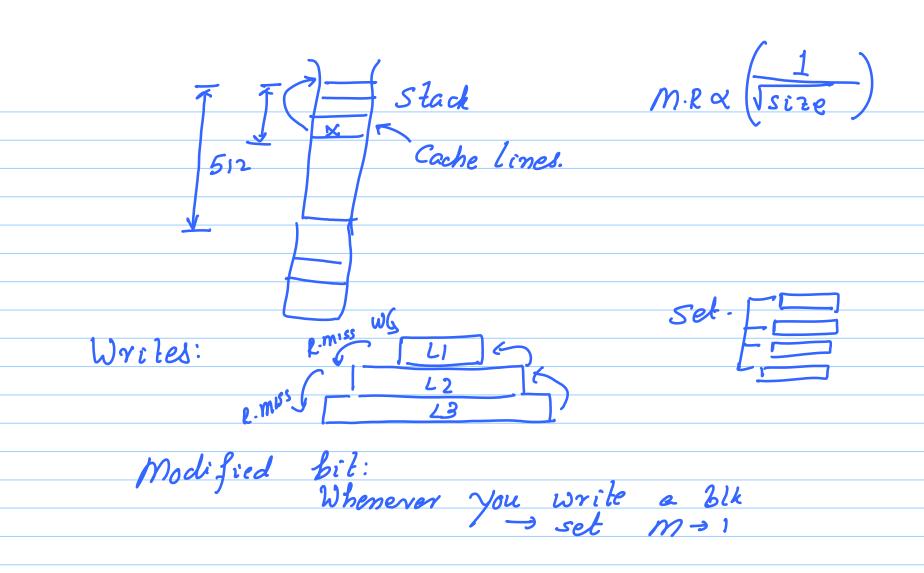
Valid bit (0/1)

Modified bit (0/1)

Set-FI Coche Read 12 Replacement Policy: Evict a line from the set. FIFO

J

Oldes l one is out. LRU



Two folicies Write (WT) Write Back (WB) Eviction!
(WT) -> Just Erict $WB \rightarrow Write to lower level$ y (m==1)

```
Base CPI = 1.5
1. of mem inst: 1/3
                                                                                     Penalty
10
                      21 Miss Rate: 20%
                     L2 MISS RATE: 40%.
                                                                                       100
                                             GLOBAL
                     LOCAL
                                    # misses
                 # MISSES
                   # ACCESSES # MEM. INSTS
C11_{new} = 1.5 + \frac{1}{3} \left( 0.2 \times 10 + 0.2 \times 0.4 \times 100 \right)
FIX
Misses - \left[ Compulsory - \left( Prefetching \right) - \left( Scre 1 \right) \right]
Conflict - \left( 0.2 \times 0.4 \times 100 \right)
```

Multi-Process

Virtual Momory

Isolation

Targe addr. space

TEXT | 5 | CONST | HIEAP -> SMCX

NEADER