

1. Index decomposition

| Accessed Index in Binary | | | | | | |
|--------------------------|---|---|------|---|--------|---|
| 0 | 0 | 1 | 0 | 0 | 1 | 1 |
| tag | | | line | | offset | |
| 1 | | | 0 | | 3 | |

2. Cache Hit Decision

≠, Cache Miss

5. Update Cache Force

f_{03}

| | |
|-------|----|
| t_0 | 4 |
| t_1 | 21 |
| t_2 | 2 |
| t_3 | 32 |

4. Fetch MPE Copy Force

| | | | |
|----------|----------|----------|----------|
| f_{00} | f_{01} | f_{02} | f_{03} |
| f_{10} | f_{11} | f_{12} | f_{13} |
| f_{20} | f_{21} | f_{22} | f_{23} |
| f_{30} | f_{31} | f_{32} | f_{33} |

3. Update MPE Copy Force

1

f_{16} f_{17} f_{18} f_{19}

4

f_{64} f_{65} f_{66} f_{67}