|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Address | Tag[3-end] | Hit/miss | way | LRU[0,1] after op | Block | Notes | cycles |  |
| 0b00000000 | 00000 | M | 0 | [1,0] | [0-7] |  | 1,2,m | 106 |
| 0b00000100 | 00000 | WH(Dirty) | - | [1,0] | [0-7] |  | 1 | 107 |
| 0x00100000 | 100000000000000 | M(replace) | 0 | [1,0] | [big] | Snooped –  (evict 000+dirty write to mem) | 1,2,m,2 | 218 |
| 0b00000000 | 00000 | M(replace + dirty) | 0 | [1,0] | [0-7] | Snooped –  (evict 0x0010000) | 1,2,m | 324 |
| 0b00001100 | 0001 | M | 1 | [0,1] | [8-15] |  | 1,2,m | 430 |
| 0b00010000 | 00010 | M(replace) | 0 | [1,0] | [16-23] | Write 000 to L2 | 1,2,m,2 | 541 |
| 0b00011100 | 00011 | M(replace) | 1 | [0,1] | [24-31] |  | 1,2,m | 647 |
| 0b00100000 | 00100 | M(replace) | 0 | [1,0] | [32-39] |  | 1,2,m | 753 |
| 0b00101100 | 00101 | M(replace) | 1 | [0,1] | [40-47] |  | 1,2,m | 859 |
| 0b00110000 | 00110 | M(replace) | 0 | [1,0] | [48-55] |  | 1,2,m | 965 |
| 0b00111100 | 00111 | M(replace) | 1 | [0,1] | [56-63] |  | 1,2,m | 1071 |
| 0b01000000 | 01000 | M(replace) | 0 | [1,0] | [64-71] | Snooped +not dirty | 1,2,m | 1177 |
| 0b00001000 | 00001 | M(replace) | 1 | [0,1] | [8-15] |  | 1,2 | 1183 |
| 0b01000100 | 01000 | WH(dirty) | 0 | [1,0] | [64-71] |  | 1 | 1184 |

L2

|  |  |  |  |
| --- | --- | --- | --- |
| Address | Tag[6-end] | Set[3-5] | Hit/miss |
| 0b00000000 | 0 | 000 | M |
| 0b00000100 | - | - | - |
| 0x00100000 | 0x0010000 | 000 | M(replace) + snoop |
| 0b00000000 | 0 | 000 | M(replace) + snoop |
| 0b00001100 | 00 | 001 | M |
| 0b00010000 | 00 | 010 | M |
| 0b00011100 | 00 | 011 | M |
| 0b00100000 | 00 | 100 | M |
| 0b00101100 | 00 | 101 | M |
| 0b00110000 | 00 | 110 | M |
| 0b00111100 | 00 | 111 | M |
| 0b01000000 | 01 | 000 | M(replace) +snoop |
| 0b00001000 | 00 | 001 | H |
| 0b01000100 | - | - | - |