a)

Óptimo

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Marco | 0 | 1 | 7 | 2 | 3 | 2 | 7 | 1 | 0 | 3 | 0 | 2 | 3 | 1 |  |
| 0 | 0 | 0 | 0 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |  |
| 1 |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  |
| 2 |  |  | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 3 |  |  |  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | Total |
| PF | PF | PF | PF | PF | PF |  |  |  | PF |  |  |  |  |  | 6 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Marco | 0 | 1 | 7 | 2 | 3 | 2 | 7 | 1 | 0 | 3 | 0 | 2 | 3 | 1 |  |
| 0 | 0 | 0 | 0 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |  |
| 1 |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 2 |  |  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 1 |  |
| 3 |  |  |  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | Total |
| PF | PF | PF | PF | PF | PF |  |  |  | PF |  |  |  |  | PF | 7 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

FIFO

LRU

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Marco | 0 | 1 | 7 | 2 | 3 | 2 | 7 | 1 | 0 | 3 | 0 | 2 | 3 | 1 |  |
| 0 | 0 | 0 | 0 | 0 | 3 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 1 |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  |
| 2 |  |  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 2 | 2 | 2 |  |
| 3 |  |  |  | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | Total |
| PF | PF | PF | PF | PF | PF |  |  |  | PF | PF |  | PF |  |  | 8 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Marco | 0 | 1 | 7 | 2 | 3 | 2 | 7 | 1 | 0 | 3 | 0 | 2 | 3 | 1 |  |
| 0 | 01 | 01 | 01 | 01 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |  |
| 1 |  | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 01 | 01 | 01 | 01 | 01 | 01 |  |
| 2 |  |  | 71 | 71 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 11 |  |
| 3 |  |  |  | 21 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | Total |
| PF | PF | PF | PF | PF | PF |  |  |  | PF |  |  |  |  | PF | 7 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

CLOCK

b)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Nro de Frame** | **Bit Presencia** | **Bit Modificado** | **Bit uso** | **Permisos (RWX)** |
| 5 bits | 1bit | 1 bit | 1 bit | 3 bits |

MF de 64KiB => DF de 16 bits

Frames de 2 KiB => Offset de 11 bits