

|   |    |    |    |    |    |    |    |    |    |                      |    |    |                                    |    |    |             |         |    |          |         |    |             |          |             |             |             |               |                  |             |               |                 |  |
|---|----|----|----|----|----|----|----|----|----|----------------------|----|----|------------------------------------|----|----|-------------|---------|----|----------|---------|----|-------------|----------|-------------|-------------|-------------|---------------|------------------|-------------|---------------|-----------------|--|
| 31                                      | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21                   | 20 | 19 | 18                                 | 17 | 16 | 15          | 14      | 13 | 12       | 11      | 10 | 9           | 8        | 7           | 6           | 5           | 4             | 3                | 2           | 1             | 0               |  |
| Address of page directory <sup>1</sup>  |    |    |    |    |    |    |    |    |    |                      |    |    |                                    |    |    |             |         |    |          | Ignored |    |             |          |             | P<br>C<br>D | PW<br>T     | Ignored       |                  |             | CR3           |                 |  |
| Bits 31:22 of address of 4MB page frame |    |    |    |    |    |    |    |    |    | Reserved (must be 0) |    |    | Bits 39:32 of address <sup>2</sup> |    |    | P<br>A<br>T | Ignored | G  | <u>1</u> | D       | A  | P<br>C<br>D | PW<br>T  | U<br>/<br>S | R<br>/<br>W | <u>1</u>    | PDE: 4MB page |                  |             |               |                 |  |
| Address of page table                   |    |    |    |    |    |    |    |    |    |                      |    |    |                                    |    |    |             |         |    |          | Ignored |    |             | <u>0</u> | I<br>g<br>n | A           | P<br>C<br>D | PW<br>T       | U<br>/<br>S      | R<br>/<br>W | <u>1</u>      | PDE: page table |  |
| Ignored                                 |    |    |    |    |    |    |    |    |    |                      |    |    |                                    |    |    |             |         |    |          |         |    |             |          |             |             |             | <u>0</u>      | PDE: not present |             |               |                 |  |
| Address of 4KB page frame               |    |    |    |    |    |    |    |    |    |                      |    |    |                                    |    |    |             |         |    |          | Ignored | G  | P<br>A<br>T | D        | A           | P<br>C<br>D | PW<br>T     | U<br>/<br>S   | R<br>/<br>W      | <u>1</u>    | PTE: 4KB page |                 |  |
| Ignored                                 |    |    |    |    |    |    |    |    |    |                      |    |    |                                    |    |    |             |         |    |          |         |    |             |          |             |             |             | <u>0</u>      | PTE: not present |             |               |                 |  |