previous description obsolete, deleted>

Virtual memory map with 4 level page tables:

The direct mapping covers all memory in the system up to the highest memory address (this means in some cases it can also include PCI memory holes).

vmalloc space is lazily synchronized into the different PML4 pages of the processes using the page fault handler, with init_level4_pgt as reference.

Current X86-64 implementations only support 40 bits of address space, but we support up to 46 bits. This expands into MBZ space in the page tables.

-Andi Kleen, Jul 2004

第1页