

```
1 pgd_idx = pgd_index(PAGE_OFFSET); /* 3 */
2 for (i=0; i<pgd_idx; i++)
3     set_pgd(swapper_pg_dir + i, __pgd(__pa(empty_zero_page) + 0x001));
4     /* 0x001 == Present */
5 pgd = swapper_pg_dir + pgd_idx;
6 phys_addr = 0x00000000;
7 for (; i<PTRS_PER_PGD; ++i, ++pgd) {
8     pmd = (pmd_t *) alloc_bootmem_low_pages(PAGE_SIZE);
9     set_pgd(pgd, __pgd(__pa(pmd) | 0x001)); /* 0x001 == Present */
10    if (phys_addr < max_low_pfn * PAGE_SIZE)
11        for (j=0; j < PTRS_PER_PMD /* 512 */
12            && phys_addr < max_low_pfn*PAGE_SIZE; ++j) {
13            set_pmd(pmd, __pmd(phys_addr | pgprot_val(__pgprot(0x1e3))));
14            /* 0x1e3 == Present, Accessed, Dirty, Read/Write,
15               Page Size, Global */
16            phys_addr += PTRS_PER_PTE * PAGE_SIZE; /* 0x200000 */
17        }
18    }
19 swapper_pg_dir[0] = swapper_pg_dir[pgd_idx];
```