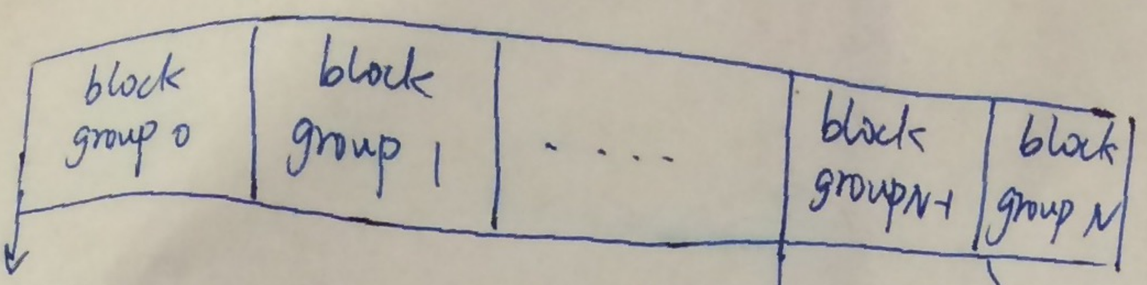
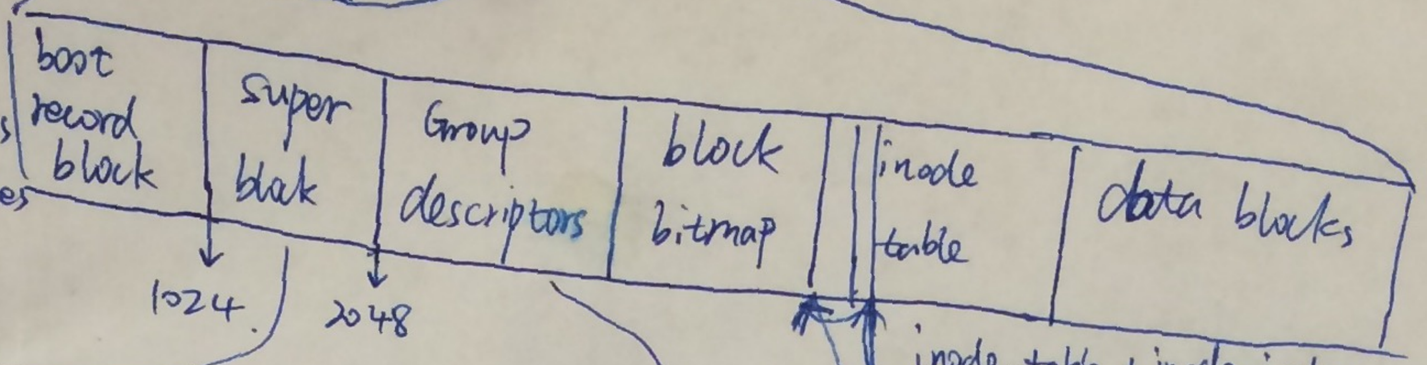
Partition

ext-2



pt_start_sect

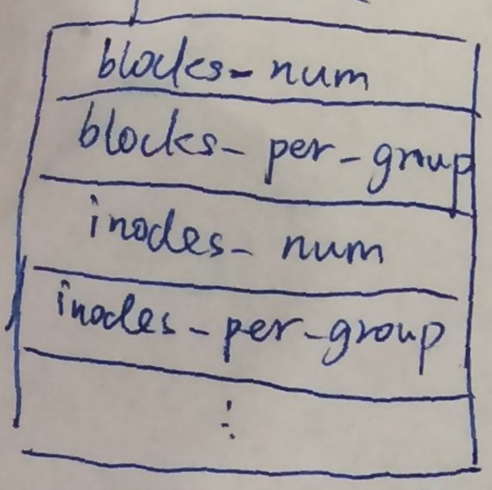
block_size = 1024 bytes
sect_size = 512 bytes



inode_table + inode_index

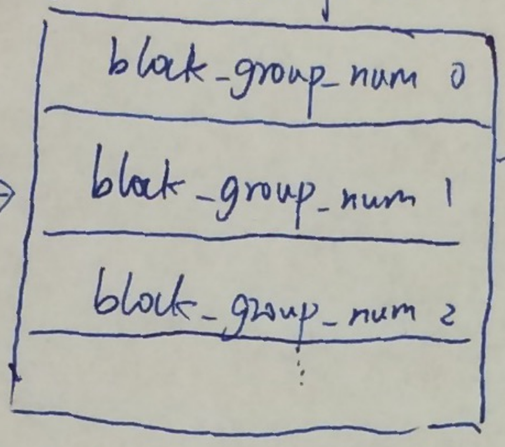
LBA = pt_start_sect + 1024/sect_size(512)

Super_block

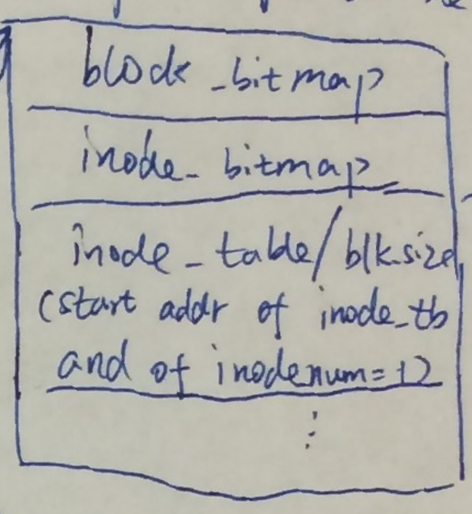


$$groups\_num = \frac{blocks\_num - 1}{blocks\_per\_group} + 1$$

group descriptors



group_descriptor_table



{ size = groups_num * sizeof(grp_desc_tb)
256 bytes

LBA = pt_start_sect + 2048/sect_size.

给一个 inodes_num, 求到其 start_address

inode 从 1 开始

$$group\_index = \frac{inode\_num - 1}{inodeper\_group}$$

$$inode\_index = (inode\_num - 1) \% inode\_per\_group.$$

block_size = 1024 Bytes

	direct	in	double	Triple
block_nums	12	256	256^2	256^3
Data_block_size	12kB	256kB	64MB	16TB

dir_entry (in data block, i_block[0])

inode (128bytes)