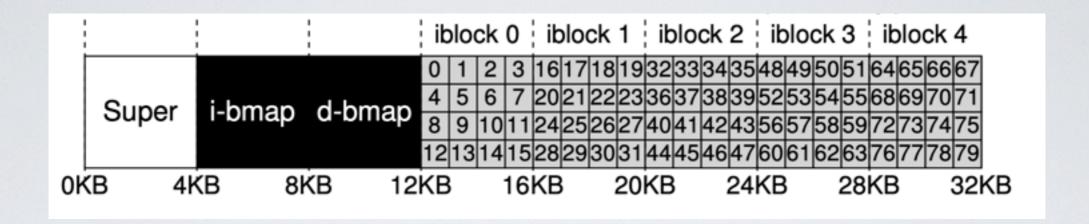
The Inode Table



- Physical Disk capacity in our example (64 blocks of 4KB each) $4 \times 64 = 256 \text{ KB}$
- Logical capacity (8 blocks are reserved) $4 \times 56 = 224$ KB (the actual data storage space)
- Maximum number of inodes (each inode is 256 bytes) (5 * 4 * 1024) / 256 = 80 inodes (i.e max number of files)
- Size of the inode bitmap (I bit per inode)
 I x 80 inodes = 80 bits (out of 32K bits)
- Size of the data bitmap (1 bit per storage block)
 1 bit x 56 blocks = 56 bits (out of 32K bits, max data storage 128 MB)

Unix Inode (simplified)

Size	Name	Description
2	mode	can the file be read/written/executed
2	uid	file owner id
4	size	the file size in bytes
4	time	time the file was last accessed
4	ctime	time when the file created
4	mtime	time when the file was last modified
4	dtime	time when the inode was deleted
2	gid	file group owner id
2	links_count	number of hard links pointing to this file
4	blocks	the number of blocks allocated to this file
60	block	disk pointers (15 in total)
4	file_acl	ACL permissions
4	dir_acl	ACL permissions