

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

Block pointers and maximum file size

So far, each inode has 15 block pointers

➡ The maximum file size can be $15 * 4 \text{ KB} = 60 \text{ KB}$ (only?!)

- Should we increase the number of block pointers to increase the file size?