super_block 구조체 include/linux/fs.h dentry 구조체 include/linux/dcache.h → struct super_block { struct dentry *s_root; struct dentry { → struct dentry { struct hlist_bl_heads_anon; → struct hlist_bl_node d_hash; → struct hlist_bl_node d_hash; struct super_block *d_sb; struct inode *d_inode; _ struct dentry *d_parent; union { struct inode *d_inode; path 구조체 → struct hlist_node d_alias;

 struct lockref d_lockref; include/linux/path.h struct workqueue_struct *s_dio_done_wq; fs/dcache.c } d_u; static struct hlist_bl_head *dentry_hashtable; struct vfsmount *mnt; struct list_head d_lru; struct user_namespace *s_user_ns; struct dentry *dentry; _____ wait_queue_head_t *d_wait; struct list_head d_child; file 구조체 struct rcu_head rcu; struct list_head d_subdirs; include/linux/fs.h struct work_struct destroy_work; struct file { struct list_head s_inodes; **←** ____ struct hlist_node d_alias; _ struct path *f_inode; struct hlist_bl_node d_in_lookup_hash; ___ struct inode ___ struct address_space *f_mapping; struct rcu_head d_rcu; *private_data; struct hlist_bl_node d_hash; ⇒ struct list_head d_lru; struct dentry { ──(struct hlist_bl_node d_hash; ◄── →struct hlist_bl_node d_hash; struct hlist_node d_alias; — } d_u; inode 구조체 (Regular file) inode 구조체 (bdev file) include/linux/fs.h include/linux/fs.h struct inode { struct inode { ____ struct super_block *i_sb; struct super_block *i_sb; struct address_space *i_mapping; _____ struct address_space *i_mapping; ———— → struct hlist_node i_hash; → struct hlist_node i_hash; ← struct list_head i_io_list; struct list_head i_io_list; struct list_head i_lru; struct list_head i_lru; → struct list_head i_sb_list; struct list_head i_sb_list; struct list_head i_wb_list; struct list_head i_wb_list; — struct hlist_head i_dentry; ◄ struct rcu_head i_rcu; struct rcu_head i_rcu; fs/inode.c struct address_space { ◀ struct address_space { ____ struct inode *host; ____ struct inode *host; static struct hlist_head *inode_hashtable; *private_data; }i_data; *i_private; *i_private; void void ⇒ struct hlist_node i_hash; struct list_head i_lru; ⇒ struct list_head i_lru; → struct hlist_node i_hash;

→ → struct list_head i_lru; _____struct list_lru s_inode_lru ____cacheline_aligned_in_smp;ፈ struct mount { struct list_head s_mounts; struct list_head mnt_instance; struct mount *mnt_parent; struct vfsmount { struct dentry *mnt_root; ----— struct super_block *mnt_sb; struct list_head mnt_mounts; — **----**, struct list_head mnt_child; struct mnt_namespace { struct task_struct { struct nsproxy { — struct mtd_info *s_mtd; struct dentry *mnt_mountpoint; struct nsproxy *nsproxy; 🔱 | struct mnt_namespace *mnt_ns; 🔱 🗩 struct list_head list; 🛶 struct list_head mnt_list; -'-------— struct mnt_namespace *mnt_ns; — struct backing_dev_info *s_bdi; — struct block_device*s_bdev; void *s_fs_info; → struct xxx_sb_info { // File system private info. ┌**〈▶** struct mount { ___ struct mount *mnt_parent; fs/super.c struct dentry *mnt_mountpoint; struct vfsmount { struct super_block { struct super_block { struct dentry *mnt_root; — → struct list_head s_list; → struct list_head s_list; → struct list_head s_list; struct super_block *mnt_sb; → struct hlist_node s_instances;
→ … struct hlist_node s_instances; struct hlist_node s_instances; ◄— struct list_head mnt_child; ~ - - - **-** - - - **,** \ struct list_head mnt_mounts; struct list_head mnt_instance; fs/filesystems.c struct list_head mnt_list; static struct file_system_type *file_systems ___ struct mnt_namespace *mnt_ns; file_system_type 구조체 include/linux/fs.h struct file_system_type { struct file_system_type { NULL const char *name; const char *name; int fs_flags; int fs_flags; struct dentry *(*mount) (struct struct dentry *(*mount) (struct struct mount { file_system_type *, int, const char *, void *); | file_system_type *, int, const char *, void * struct mount *mnt_parent; void (*kill_sb) (struct super_block *); void (*kill_sb) (struct super_block *); struct dentry *mnt_mountpoint; struct module *owner; struct module *owner; struct file_system_type * next; ---struct file_system_type * next; ———— struct vfsmount { → struct hlist_head fs_supers; struct hlist_head fs_supers; ◀ struct dentry *mnt_root; struct super_block *mnt_sb; struct list_head mnt_mounts; struct list_head mnt_instance; struct block_device { → struct mtd_info { — struct list_head mnt_list; ◄ ___ struct mnt_namespace *mnt_ns; * A Memory Technology Device
* is a type of device file in Linux
* for interacting with flash memory. — struct super_block *bd_super; bdev_inode 구조체 fs/block_dev.c — struct block_device * bd_contains; fs/block_dev.c — struct backing_dev_info *bd_bdi; static struct list_head all_bdevs; struct bdev_inode {
 struct block_device { — struct request_queue * bd_queue; → struct list_head bd_list;
→ struct list_head bd_list;
→ struct list_head bd_list;
→ struct list_head bd_list; _____ struct gendisk * bd_disk; struct hlist_node i_hash; ◀ - struct address_space *i_mapping; struct request_queue *queue; struct request_queue { struct backing_dev_info *backing_dev_info;

include/linux/mmzone.h		
struct per_cpu_pageset { struct per_cpu_pages { struct list_head lists[MIGRATE_PCPTYPES]; } pcp; }:		
J,	arch/x86/include/asm/mmzone_64.h	
include/linux/mmzone.h	extern struct pglist_data *node_data[];	
typedef struct pglist_data { struct zone { struct pglist_data *zone_pgdat; struct per_cpu_pagesetpercpu *pageset;		
struct free_area { struct list_head free_list[MIGRATE_TYPES]; } free_area[MAX_ORDER]; } node_zones[MAX_NR_ZONES];		
struct zonelist { struct zoneref {		
} node_zonelists[MAX_ZONELISTS];		
/* means !SPARSEMEM */ #ifdef CONFIG_FLAT_NODE_MEM_MAP struct page *node_mem_map; ————————————————————————————————————	Physical address	Physical address
} pg_data_t;		
		Node #0
	Single node	
		Node #n
	FLATMEM	DISCONTIGMEM
struct zone node_zones[]	Page struct array	
	- Lago on account,	
[ZONE DMA]		
[ZONE_DMA32]		
[ZONE_NORMAL]		

task_struct 구조체

struct files_struct *files;

struct task_struct {

files_struct 구조체

include/linux/fdtable.h

struct fdtable fdtab;

struct files_struct {

include/linux/sched.h