

Definition of “struct file” per `${SOURCE}/include/linux/fs.h`

```
struct file {
    union {
        struct llist_node    fu_llist;
        struct rcu_head      fu_rcuhead;
    } f_u;
    struct path              f_path;
    struct inode             *f_inode;    /* cached value */
    const struct file_operations *f_op;

    /*
     * Protects f_ep_links, f_flags.
     * Must not be taken from IRQ context.
     */
    spinlock_t              f_lock;
    enum rw_hint             f_write_hint;
    atomic_long_t           f_count;
    unsigned int             f_flags;
    fmode_t                 f_mode;
    struct mutex             f_pos_lock;
    loff_t                   f_pos;
    struct fown_struct       f_owner;
    const struct cred        *f_cred;
    struct file_ra_state     f_ra;

    u64                     f_version;
#ifdef CONFIG_SECURITY
    void                    *f_security;
#endif
    /* needed for tty driver, and maybe others */
    void                    *private_data;

#ifdef CONFIG_EPOLL
    /* Used by fs/eventpoll.c to link all the hooks to this file */
    struct list_head        f_ep_links;
    struct list_head        f_tfile_llink;
#endif /* #ifdef CONFIG_EPOLL */
    struct address_space     *f_mapping;
    errseq_t                f_wb_err;
} __randomize_layout
__attribute__((aligned(4))); /* lest something weird decides that 2 is OK */
```