

## Definition of struct inode per <https://www.tldp.org/LDP/tlk/ds/ds.html>

```
struct inode {
    kdev_t                i_dev;
    unsigned long         i_ino;
    umode_t               i_mode;
    nlink_t               i_nlink;
    uid_t                 i_uid;
    gid_t                 i_gid;
    kdev_t                i_rdev;
    off_t                 i_size;
    time_t                i_atime;
    time_t                i_mtime;
    time_t                i_ctime;
    unsigned long         i_blksize;
    unsigned long         i_blocks;
    unsigned long         i_version;
    unsigned long         i_nrpages;
    struct semaphore      i_sem;
    struct inode_operations *i_op;
    struct super_block    *i_sb;
    struct wait_queue     *i_wait;
    struct file_lock      *i_flock;
    struct vm_area_struct *i_mmap;
    struct page           *i_pages;
    struct dquot          *i_dquot[MAXQUOTAS];
    struct inode          *i_next, *i_prev;
    struct inode          *i_hash_next, *i_hash_prev;
    struct inode          *i_bound_to, *i_bound_by;
    struct inode          *i_mount;
    unsigned short        i_count;
    unsigned short        i_flags;
    unsigned char         i_lock;
    unsigned char         i_dirt;
    unsigned char         i_pipe;
    unsigned char         i_sock;
    unsigned char         i_seek;
    unsigned char         i_update;
    unsigned short        i_writecount;
    union {
        struct pipe_inode_info pipe_i;
        struct minix_inode_info minix_i;
        struct ext_inode_info ext_i;
        struct ext2_inode_info ext2_i;
        struct hpfs_inode_info hpfs_i;
        struct msdos_inode_info msdos_i;
        struct umsdos_inode_info umsdos_i;
        struct iso_inode_info isofs_i;
        struct nfs_inode_info nfs_i;
        struct xiafs_inode_info xiafs_i;
        struct sysv_inode_info sysv_i;
        struct affs_inode_info affs_i;
        struct ufs_inode_info ufs_i;
        struct socket        socket_i;
        void                 *generic_ip;
    } u;
};
```