struct [file](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html) {

761  /\*

762  \* fu\_list becomes invalid after file\_free is called and queued via

763  \* fu\_rcuhead for RCU freeing

[764](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html" \l "ade331426d884fd0d8225091220a855ff)  \*/

[765](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html" \l "a7bab9c7f0ba33e468c34781951f63681)  union {

766  struct [list\_head](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structlist__head.html) fu\_list;

[767](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html" \l "afe3cb672a6728a24b3031327966b041c)  struct [rcu\_head](https://docs.huihoo.com/doxygen/linux/kernel/3.7/include_2linux_2types_8h.html#a31f0e635598a9df4d5c86eb0ebe295ea) [fu\_rcuhead](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html#a7bab9c7f0ba33e468c34781951f63681);

[768](https://docs.huihoo.com/doxygen/linux/kernel/3.7/linux_2fs_8h.html" \l "ab9f712298014ed6d221ee71eca78ae9e)  } [f\_u](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html#a3a43bd76050c2b6f81a6cf66d79dc559);

[769](https://docs.huihoo.com/doxygen/linux/kernel/3.7/linux_2fs_8h.html" \l "aa40124b7a601b4c5f3cfc15693748b18)  struct [path](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structpath.html) [f\_path](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html#afe3cb672a6728a24b3031327966b041c);

[770](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html" \l "aef8c20113ce21459757b9e27021a7826) #define f\_dentry f\_path.dentry

771 #define f\_vfsmnt f\_path.mnt

772  const struct [file\_operations](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html) \*[f\_op](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html" \l "aef8c20113ce21459757b9e27021a7826);

773

774  /\*

775  \* Protects f\_ep\_links, f\_flags, f\_pos vs i\_size in lseek SEEK\_CUR.

[776](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html" \l "aead50bde225d0e64bd87b00fb1672684)  \* Must not be taken from IRQ context.

777  \*/

778  [spinlock\_t](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structspinlock.html) [f\_lock](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html#aead50bde225d0e64bd87b00fb1672684);

779 #ifdef CONFIG\_SMP

[780](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html" \l "aed02b8fd82725db91c5e862ca82466f7)  int f\_sb\_list\_cpu;

[781](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html" \l "a8c74511289b0d968f01afc13650e2d8c) #endif

[782](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html" \l "a710f6a7d83cb6c4abcf8b1bb90358936)  [atomic\_long\_t](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structatomic__t.html) [f\_count](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html#aed02b8fd82725db91c5e862ca82466f7);

[783](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html" \l "a5dc74d6b6efe72b10358317732bfd51a)  unsigned int [f\_flags](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html#a8c74511289b0d968f01afc13650e2d8c);

[784](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html" \l "a8364c6989068a8ffda2918853496445f)  [fmode\_t](https://docs.huihoo.com/doxygen/linux/kernel/3.7/include_2linux_2types_8h.html#a9966b054785d5accd29a49cd5ed488cd) [f\_mode](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html#a710f6a7d83cb6c4abcf8b1bb90358936);

[785](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html" \l "af4a7bbc0c225d6afd2bc6ec63de9d43e)  loff\_t [f\_pos](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html#a5dc74d6b6efe72b10358317732bfd51a);

[786](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html" \l "acf11bddc45066cab0f50f23938b9da85)  struct [fown\_struct](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfown__struct.html) [f\_owner](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html#a8364c6989068a8ffda2918853496445f);

787  const struct [cred](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structcred.html) \*[f\_cred](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html" \l "af4a7bbc0c225d6afd2bc6ec63de9d43e);

[788](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html" \l "ab1d6abc7f5f8f85bee61622d04c56902)  struct [file\_ra\_state](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__ra__state.html) [f\_ra](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html#acf11bddc45066cab0f50f23938b9da85);

789

790  [u64](https://docs.huihoo.com/doxygen/linux/kernel/3.7/arch_2powerpc_2boot_2types_8h.html#ad758b7a5c3f18ed79d2fcd23d9f16357) [f\_version](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html#ab1d6abc7f5f8f85bee61622d04c56902);

791 #ifdef CONFIG\_SECURITY

792  void \*f\_security;

[793](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html" \l "ad517770dac2061381b2008850ff12e6c) #endif

794  /\* needed for tty driver, and maybe others \*/

795  void \*[private\_data](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html" \l "ad517770dac2061381b2008850ff12e6c);

796

797 #ifdef CONFIG\_EPOLL

798  /\* Used by fs/eventpoll.c to link all the hooks to this file \*/

799  struct [list\_head](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structlist__head.html) f\_ep\_links;

[800](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html" \l "a530e96c71224b2a412037e3f2b9b8f72)  struct [list\_head](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structlist__head.html) f\_tfile\_llink;

801 #endif /\* #ifdef CONFIG\_EPOLL \*/

802  struct [address\_space](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structaddress__space.html) \*[f\_mapping](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html" \l "a530e96c71224b2a412037e3f2b9b8f72);

803 #ifdef CONFIG\_DEBUG\_WRITECOUNT

804  unsigned long f\_mnt\_write\_state;

805 #endif

[806](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__handle.html) };

[807](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__handle.html" \l "a28b1c74312caf3f40b145046bdcddddf)

struct [file\_operations](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html) {

[1519](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "ac735efee53af29e20bd6b9227e8cce81)  struct [module](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structmodule.html) \*[owner](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html#acc568ec6f00725c4fc0079a6cda55e47);

[1520](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "adf4aac4ea0db4580f122ff4520056667)  loff\_t (\*[llseek](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "aa08214710410749278bcd01434e0dce9)) (struct [file](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html) \*, loff\_t, [int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372));

[1521](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "adffb8e738a221d58b0038a452fcae92a)  [ssize\_t](https://docs.huihoo.com/doxygen/linux/kernel/3.7/include_2linux_2types_8h.html#a635dc9ed21bd0472d442fa2ec051f4ce) (\*[read](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html#ac735efee53af29e20bd6b9227e8cce81)) (struct [file](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html) \*, char [\_\_user](https://docs.huihoo.com/doxygen/linux/kernel/3.7/sis__main_8c.html#ace6f17999da4ea3b93c4227beafcab95) \*, [size\_t](https://docs.huihoo.com/doxygen/linux/kernel/3.7/include_2linux_2types_8h.html#aad0f8411dfc957b4069125f330192f4f), loff\_t \*);

[1522](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a10b4f66843fb7e632157c87354e796a3)  [ssize\_t](https://docs.huihoo.com/doxygen/linux/kernel/3.7/include_2linux_2types_8h.html#a635dc9ed21bd0472d442fa2ec051f4ce) (\*[write](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html#adf4aac4ea0db4580f122ff4520056667)) (struct [file](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html) \*, const char [\_\_user](https://docs.huihoo.com/doxygen/linux/kernel/3.7/sis__main_8c.html#ace6f17999da4ea3b93c4227beafcab95) \*, [size\_t](https://docs.huihoo.com/doxygen/linux/kernel/3.7/include_2linux_2types_8h.html#aad0f8411dfc957b4069125f330192f4f), loff\_t \*);

[1523](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a438700c00e288d6907173b51cb8942b7)  [ssize\_t](https://docs.huihoo.com/doxygen/linux/kernel/3.7/include_2linux_2types_8h.html#a635dc9ed21bd0472d442fa2ec051f4ce) (\*[aio\_read](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "adffb8e738a221d58b0038a452fcae92a)) (struct [kiocb](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structkiocb.html) \*, const struct [iovec](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structiovec.html) \*, unsigned [long](https://docs.huihoo.com/doxygen/linux/kernel/3.7/arm_2include_2asm_2assembler_8h.html#a25641a3302744a2312107a7130d0dcbc), loff\_t);

[1524](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a17684075ff0f7233422d1d38cd4ee51d)  [ssize\_t](https://docs.huihoo.com/doxygen/linux/kernel/3.7/include_2linux_2types_8h.html#a635dc9ed21bd0472d442fa2ec051f4ce) (\*[aio\_write](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a10b4f66843fb7e632157c87354e796a3)) (struct [kiocb](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structkiocb.html) \*, const struct [iovec](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structiovec.html) \*, unsigned [long](https://docs.huihoo.com/doxygen/linux/kernel/3.7/arm_2include_2asm_2assembler_8h.html#a25641a3302744a2312107a7130d0dcbc), loff\_t);

[1525](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a8adc964dd6fef32324047b7bf511c19f)  [int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372) (\*[readdir](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a438700c00e288d6907173b51cb8942b7)) (struct [file](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html) \*, void \*, [filldir\_t](https://docs.huihoo.com/doxygen/linux/kernel/3.7/linux_2fs_8h.html#ac769bd435e41b065d0df35a5354bbc71));

[1526](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a7455afff350553a06ff2024a861bd291)  unsigned [int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372) (\*[poll](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structpoll.html)) (struct [file](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html) \*, struct [poll\_table\_struct](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structpoll__table__struct.html) \*);

[1527](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a593c19d0ec548744e6b00c4bfbcf4d41)  [long](https://docs.huihoo.com/doxygen/linux/kernel/3.7/arm_2include_2asm_2assembler_8h.html#a25641a3302744a2312107a7130d0dcbc) (\*[unlocked\_ioctl](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a8adc964dd6fef32324047b7bf511c19f)) (struct [file](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html) \*, unsigned [int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372), unsigned [long](https://docs.huihoo.com/doxygen/linux/kernel/3.7/arm_2include_2asm_2assembler_8h.html#a25641a3302744a2312107a7130d0dcbc));

[1528](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a5c7541653a3928e0d487a9cfbfa33031)  [long](https://docs.huihoo.com/doxygen/linux/kernel/3.7/arm_2include_2asm_2assembler_8h.html#a25641a3302744a2312107a7130d0dcbc) (\*[compat\_ioctl](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a7455afff350553a06ff2024a861bd291)) (struct [file](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html) \*, unsigned [int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372), unsigned [long](https://docs.huihoo.com/doxygen/linux/kernel/3.7/arm_2include_2asm_2assembler_8h.html#a25641a3302744a2312107a7130d0dcbc));

[1529](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a2e58baba35c7c101c891134ee9ef47b4)  [int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372) (\*[mmap](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a593c19d0ec548744e6b00c4bfbcf4d41)) (struct [file](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html) \*, struct [vm\_area\_struct](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structvm__area__struct.html) \*);

[1530](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a84051dd06ec3f7a0dd641c401b5b68f6)  [int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372) (\*[open](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html#a5c7541653a3928e0d487a9cfbfa33031)) (struct inode \*, struct [file](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html) \*);

[1531](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a5c6e36f7dcfe8c561dcd36f2c8fc8d73)  [int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372) (\*[flush](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html#a2e58baba35c7c101c891134ee9ef47b4)) (struct [file](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html) \*, fl\_owner\_t [id](https://docs.huihoo.com/doxygen/linux/kernel/3.7/arch_2ia64_2kernel_2efi_8c.html#a293cd027b612b40249250d18e63f086a));

[1532](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "af873a8df6d7aaace5a39281a063ceca4)  [int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372) (\*[release](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html#a84051dd06ec3f7a0dd641c401b5b68f6)) (struct inode \*, struct [file](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html) \*);

[1533](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a61e061060c16ec3db403189f2b563686)  [int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372) (\*[fsync](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a5c6e36f7dcfe8c561dcd36f2c8fc8d73)) (struct [file](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html) \*, loff\_t, loff\_t, int datasync);

[1534](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "aa48ae154af617029e99fce0e65400ce2)  [int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372) (\*[aio\_fsync](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "af873a8df6d7aaace5a39281a063ceca4)) (struct [kiocb](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structkiocb.html) \*, int datasync);

[1535](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "abecd653585642990532a74207a013cb3)  [int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372) (\*[fasync](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a61e061060c16ec3db403189f2b563686)) ([int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372), struct [file](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html) \*, [int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372));

[1536](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a21933e3e435dea369865b90f2c783c22)  [int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372) (\*[lock](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html#aa48ae154af617029e99fce0e65400ce2)) (struct [file](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html) \*, [int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372), struct [file\_lock](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__lock.html) \*);

[1537](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a58a876492de5af4299cd2ebc88197a15)  [ssize\_t](https://docs.huihoo.com/doxygen/linux/kernel/3.7/include_2linux_2types_8h.html#a635dc9ed21bd0472d442fa2ec051f4ce) (\*[sendpage](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "abecd653585642990532a74207a013cb3)) (struct [file](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html) \*, struct [page](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structpage.html) \*, [int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372), [size\_t](https://docs.huihoo.com/doxygen/linux/kernel/3.7/include_2linux_2types_8h.html#aad0f8411dfc957b4069125f330192f4f), loff\_t \*, [int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372));

[1538](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a737b966e1b148ad1052dc345911d9742)  unsigned [long](https://docs.huihoo.com/doxygen/linux/kernel/3.7/arm_2include_2asm_2assembler_8h.html#a25641a3302744a2312107a7130d0dcbc) (\*[get\_unmapped\_area](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a21933e3e435dea369865b90f2c783c22))(struct [file](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html) \*, unsigned [long](https://docs.huihoo.com/doxygen/linux/kernel/3.7/arm_2include_2asm_2assembler_8h.html#a25641a3302744a2312107a7130d0dcbc), unsigned [long](https://docs.huihoo.com/doxygen/linux/kernel/3.7/arm_2include_2asm_2assembler_8h.html#a25641a3302744a2312107a7130d0dcbc), unsigned [long](https://docs.huihoo.com/doxygen/linux/kernel/3.7/arm_2include_2asm_2assembler_8h.html#a25641a3302744a2312107a7130d0dcbc), unsigned [long](https://docs.huihoo.com/doxygen/linux/kernel/3.7/arm_2include_2asm_2assembler_8h.html#a25641a3302744a2312107a7130d0dcbc));

[1539](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a0ce1cef3860ce4530d60b381c0b88b2c)  [int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372) (\*[check\_flags](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a58a876492de5af4299cd2ebc88197a15))([int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372));

[1540](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a3e04cb60c9565573aa60639eb59a416e)  [int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372) (\*[flock](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structflock.html)) (struct [file](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html) \*, [int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372), struct [file\_lock](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__lock.html) \*);

[1541](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a92076bbc4ce3c976549e9323582e798a)  [ssize\_t](https://docs.huihoo.com/doxygen/linux/kernel/3.7/include_2linux_2types_8h.html#a635dc9ed21bd0472d442fa2ec051f4ce) (\*[splice\_write](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a0ce1cef3860ce4530d60b381c0b88b2c))(struct [pipe\_inode\_info](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structpipe__inode__info.html) \*, struct [file](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html) \*, loff\_t \*, [size\_t](https://docs.huihoo.com/doxygen/linux/kernel/3.7/include_2linux_2types_8h.html#aad0f8411dfc957b4069125f330192f4f), unsigned [int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372));

[1542](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a4c4a4a35e5cc2d36dc71137bb3039d2a)  [ssize\_t](https://docs.huihoo.com/doxygen/linux/kernel/3.7/include_2linux_2types_8h.html#a635dc9ed21bd0472d442fa2ec051f4ce) (\*[splice\_read](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a3e04cb60c9565573aa60639eb59a416e))(struct [file](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html) \*, loff\_t \*, struct [pipe\_inode\_info](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structpipe__inode__info.html) \*, [size\_t](https://docs.huihoo.com/doxygen/linux/kernel/3.7/include_2linux_2types_8h.html#aad0f8411dfc957b4069125f330192f4f), unsigned [int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372));

1543  [int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372) (\*[setlease](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a92076bbc4ce3c976549e9323582e798a))(struct [file](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html) \*, [long](https://docs.huihoo.com/doxygen/linux/kernel/3.7/arm_2include_2asm_2assembler_8h.html#a25641a3302744a2312107a7130d0dcbc), struct [file\_lock](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__lock.html) \*\*);

1544  [long](https://docs.huihoo.com/doxygen/linux/kernel/3.7/arm_2include_2asm_2assembler_8h.html#a25641a3302744a2312107a7130d0dcbc) (\*[fallocate](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__operations.html" \l "a4c4a4a35e5cc2d36dc71137bb3039d2a))(struct [file](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile.html) \*[file](https://docs.huihoo.com/doxygen/linux/kernel/3.7/fpsp_8h.html#af97cf0019c335281897f0df1982973e9), int [mode](https://docs.huihoo.com/doxygen/linux/kernel/3.7/arm_2include_2asm_2assembler_8h.html#a7cea6ae40aa46b41e3806213a39718c6), loff\_t [offset](https://docs.huihoo.com/doxygen/linux/kernel/3.7/celleb__scc__sio_8c.html#a484fdbdf63dad48b099567a80d3bd5f4),

1545  loff\_t [len](https://docs.huihoo.com/doxygen/linux/kernel/3.7/hvsi_8h.html#ac6c61fc2d54b5e017432ab28daf5a7a9));

[1546](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structinode__operations.html) };

[1807](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html#ac188f61b8f133c6f026b5ccc54d2d254) struct [file\_system\_type](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html) {

[1808](https://docs.huihoo.com/doxygen/linux/kernel/3.7/linux_2fs_8h.html" \l "ae51fea644ea4b40c40734f4bbccbea31)  const char \*[name](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html#a8f8f80d37794cde9472343e4487ba3eb);

[1809](https://docs.huihoo.com/doxygen/linux/kernel/3.7/linux_2fs_8h.html" \l "a0af2423d8a3d5ba9bc517c4f3d4e5c55)  int [fs\_flags](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html#ac188f61b8f133c6f026b5ccc54d2d254);

[1810](https://docs.huihoo.com/doxygen/linux/kernel/3.7/linux_2fs_8h.html" \l "ae9cf6fbd095d5de6de305e910d70fe07) #define FS\_REQUIRES\_DEV 1

[1811](https://docs.huihoo.com/doxygen/linux/kernel/3.7/linux_2fs_8h.html" \l "a17dbcbcf88a298f4702134d06e7cf946) #define FS\_BINARY\_MOUNTDATA 2

[1812](https://docs.huihoo.com/doxygen/linux/kernel/3.7/linux_2fs_8h.html" \l "a0c00d9c040f5d7539044482ebd2de704) #define FS\_HAS\_SUBTYPE 4

[1813](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html" \l "ad00545ae3781d7adb5397edd8b876bb3) #define FS\_REVAL\_DOT 16384 /\* Check the paths ".", ".." for staleness \*/

1814 #define FS\_RENAME\_DOES\_D\_MOVE 32768 /\* FS will handle d\_move() during rename() internally. \*/

[1815](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html" \l "a57d5f8942e719fdc15e4e7072945670a)  struct [dentry](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structdentry.html) \*(\*mount) (struct [file\_system\_type](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html) \*, [int](https://docs.huihoo.com/doxygen/linux/kernel/3.7/_d_a_c960_8h.html#ae5ddf38bc47713b2bcad41253d69d372),

[1816](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html" \l "acc568ec6f00725c4fc0079a6cda55e47)  const char \*, void \*);

[1817](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html" \l "a8fcdbc66e3023e573b2c68ecf0d2c18f)  [void](https://docs.huihoo.com/doxygen/linux/kernel/3.7/actypes_8h.html#aea3c37a2ef567e5eda8aa3151c97198f) (\*[kill\_sb](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html" \l "a57d5f8942e719fdc15e4e7072945670a)) (struct [super\_block](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structsuper__block.html) \*);

[1818](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html" \l "a3fe3f8e2abd7a31c20052ccdf963e29e)  struct [module](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structmodule.html) \*[owner](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html#acc568ec6f00725c4fc0079a6cda55e47);

1819  struct [file\_system\_type](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html) \* [next](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html#a8fcdbc66e3023e573b2c68ecf0d2c18f);

[1820](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html" \l "a49050c2901d86d279d0ac6c4bb5ba42b)  struct [hlist\_head](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structhlist__head.html) [fs\_supers](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html#a3fe3f8e2abd7a31c20052ccdf963e29e);

[1821](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html" \l "ae859831555ee4988e377fdf424b1d1a6)

[1822](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html" \l "afe4ba0e593124363e87ed8e714209547)  struct [lock\_class\_key](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structlock__class__key.html) [s\_lock\_key](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html#a49050c2901d86d279d0ac6c4bb5ba42b);

[1823](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html" \l "aaab4e9e43988b55d2be62bb681a4d2bd)  struct [lock\_class\_key](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structlock__class__key.html) [s\_umount\_key](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html#ae859831555ee4988e377fdf424b1d1a6);

1824  struct [lock\_class\_key](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structlock__class__key.html) [s\_vfs\_rename\_key](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html#afe4ba0e593124363e87ed8e714209547);

[1825](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html" \l "acece6e7f23c382afe4d596d2ddaeb591)  struct [lock\_class\_key](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structlock__class__key.html) [s\_writers\_key](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html#aaab4e9e43988b55d2be62bb681a4d2bd)[[SB\_FREEZE\_LEVELS](https://docs.huihoo.com/doxygen/linux/kernel/3.7/linux_2fs_8h.html#a93d9aed6fa0e59d4edf16052c2f065e9)];

[1826](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html" \l "a8700e0d53350f21fec2daded3b4e2cc9)

[1827](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html" \l "a2b322863f8cfb27a3a994ae31a21578d)  struct [lock\_class\_key](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structlock__class__key.html) [i\_lock\_key](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html#acece6e7f23c382afe4d596d2ddaeb591);

1828  struct [lock\_class\_key](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structlock__class__key.html) [i\_mutex\_key](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html#a8700e0d53350f21fec2daded3b4e2cc9);

1829  struct [lock\_class\_key](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structlock__class__key.html) [i\_mutex\_dir\_key](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html#a2b322863f8cfb27a3a994ae31a21578d);

1830 };

1831

1832 extern struct [dentry](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structdentry.html) \*[mount\_ns](https://docs.huihoo.com/doxygen/linux/kernel/3.7/fs_2super_8c.html" \l "abdd5db2ec1f2b24eb5a94958bb735a84)(struct [file\_system\_type](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html) \*fs\_type, int [flags](https://docs.huihoo.com/doxygen/linux/kernel/3.7/dm-crypt_8c.html#aa2585d779da0ab21273a8d92de9a0ebe),

1833  void \*[data](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structdata.html), int (\*fill\_super)(struct [super\_block](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structsuper__block.html) \*, void \*, int));

1834 extern struct [dentry](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structdentry.html) \*[mount\_bdev](https://docs.huihoo.com/doxygen/linux/kernel/3.7/linux_2fs_8h.html" \l "ab33085a6b3474a4a443023a067fd20dd)(struct [file\_system\_type](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html) \*fs\_type,

1835  int flags, const char \*dev\_name, void \*data,

1836  int (\*fill\_super)(struct [super\_block](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structsuper__block.html) \*, void \*, int));

1837 extern struct [dentry](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structdentry.html) \*[mount\_single](https://docs.huihoo.com/doxygen/linux/kernel/3.7/fs_2super_8c.html" \l "a45eea331e85eef24ccfd29e1ce986024)(struct [file\_system\_type](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html) \*fs\_type,

1838  int flags, void \*data,

1839  int (\*fill\_super)(struct [super\_block](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structsuper__block.html) \*, void \*, int));

1840 extern struct [dentry](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structdentry.html) \*[mount\_nodev](https://docs.huihoo.com/doxygen/linux/kernel/3.7/fs_2super_8c.html" \l "a1584ff69a2fb2ff90ce2de27dd98e357)(struct [file\_system\_type](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structfile__system__type.html) \*fs\_type,

1841  int flags, void \*data,

1842  int (\*fill\_super)(struct [super\_block](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structsuper__block.html) \*, void \*, int));

1843 extern struct [dentry](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structdentry.html) \*[mount\_subtree](https://docs.huihoo.com/doxygen/linux/kernel/3.7/fs_2namespace_8c.html" \l "a9184b09d96e73c85fae863da9f7d8644)(struct [vfsmount](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structvfsmount.html) \*mnt, const char \*[path](https://docs.huihoo.com/doxygen/linux/kernel/3.7/structpath.html));