

# FreeBSD kernel i386 linuxolator code Reference Manual

Generated by Doxygen 1.4.7

Sat Feb 24 17:42:06 2007



# Contents

<b>1</b>	<b>FreeBSD kernel i386 linuxolator code Main Page</b>	<b>1</b>
<b>2</b>	<b>FreeBSD kernel i386 linuxolator code Directory Hierarchy</b>	<b>3</b>
2.1	FreeBSD kernel i386 linuxolator code Directories . . . . .	3
<b>3</b>	<b>FreeBSD kernel i386 linuxolator code Data Structure Index</b>	<b>5</b>
3.1	FreeBSD kernel i386 linuxolator code Data Structures . . . . .	5
<b>4</b>	<b>FreeBSD kernel i386 linuxolator code File Index</b>	<b>7</b>
4.1	FreeBSD kernel i386 linuxolator code File List . . . . .	7
<b>5</b>	<b>FreeBSD kernel i386 linuxolator code Directory Documentation</b>	<b>9</b>
5.1	/usr/src/sys/compat/ Directory Reference . . . . .	9
5.2	/usr/src/sys/compat/linux/ Directory Reference . . . . .	10
5.3	/usr/src/ Directory Reference . . . . .	11
5.4	/usr/src/sys/ Directory Reference . . . . .	12
5.5	/usr/ Directory Reference . . . . .	13
<b>6</b>	<b>FreeBSD kernel i386 linuxolator code Data Structure Documentation</b>	<b>15</b>
6.1	device_element Struct Reference . . . . .	15
6.2	futex Struct Reference . . . . .	16
6.3	handler_element Struct Reference . . . . .	17
6.4	l_cdrom_read_audio Struct Reference . . . . .	18
6.5	l_dirent Struct Reference . . . . .	19
6.6	l_dirent64 Struct Reference . . . . .	20
6.7	l_dvd_authinfo Union Reference . . . . .	21
6.8	l_dvd_bca Struct Reference . . . . .	23
6.9	l_dvd_copyright Struct Reference . . . . .	24
6.10	l_dvd_disckey Struct Reference . . . . .	25
6.11	l_dvd_host_send_challenge Struct Reference . . . . .	26

---

6.12	<a href="#">l_dvd_host_send_rpcstate</a> Struct Reference	27
6.13	<a href="#">l_dvd_layer</a> Struct Reference	28
6.14	<a href="#">l_dvd_lu_send_agid</a> Struct Reference	30
6.15	<a href="#">l_dvd_lu_send_asf</a> Struct Reference	31
6.16	<a href="#">l_dvd_lu_send_challenge</a> Struct Reference	32
6.17	<a href="#">l_dvd_lu_send_rpcstate</a> Struct Reference	33
6.18	<a href="#">l_dvd_lu_send_title_key</a> Struct Reference	34
6.19	<a href="#">l_dvd_manufact</a> Struct Reference	36
6.20	<a href="#">l_dvd_physical</a> Struct Reference	37
6.21	<a href="#">l_dvd_send_key</a> Struct Reference	38
6.22	<a href="#">l_dvd_struct</a> Union Reference	39
6.23	<a href="#">l_flock</a> Struct Reference	41
6.24	<a href="#">l_ipc_perm</a> Struct Reference	42
6.25	<a href="#">l_itimerval</a> Struct Reference	44
6.26	<a href="#">l_msginfo</a> Struct Reference	45
6.27	<a href="#">l_msgqid_ds</a> Struct Reference	47
6.28	<a href="#">l_semid_ds</a> Struct Reference	50
6.29	<a href="#">l_seminfo</a> Struct Reference	52
6.30	<a href="#">l_shm_info</a> Struct Reference	54
6.31	<a href="#">l_shmid_ds</a> Struct Reference	56
6.32	<a href="#">l_shminfo</a> Struct Reference	58
6.33	<a href="#">l_statfs</a> Struct Reference	59
6.34	<a href="#">l_statfs64</a> Struct Reference	61
6.35	<a href="#">l_sysinfo</a> Struct Reference	63
6.36	<a href="#">l_times_argv</a> Struct Reference	66
6.37	<a href="#">l_ustat</a> Struct Reference	67
6.38	<a href="#">linux_accept_args</a> Struct Reference	68
6.39	<a href="#">linux_aio_context</a> Struct Reference	69
6.40	<a href="#">linux_aio_request</a> Struct Reference	71
6.41	<a href="#">linux_aio_ring</a> Struct Reference	72
6.42	<a href="#">linux_bind_args</a> Struct Reference	74
6.43	<a href="#">linux_cdrom_addr</a> Union Reference	75
6.44	<a href="#">linux_cdrom_msf</a> Struct Reference	76
6.45	<a href="#">linux_cdrom_subchnl</a> Struct Reference	77
6.46	<a href="#">linux_cdrom_tocentry</a> Struct Reference	79
6.47	<a href="#">linux_cdrom_tochdr</a> Struct Reference	81

---

6.48	<a href="#">linux_connect_args Struct Reference</a>	82
6.49	<a href="#">linux_device_handler Struct Reference</a>	83
6.50	<a href="#">linux_emuldata Struct Reference</a>	85
6.51	<a href="#">linux_emuldata_shared Struct Reference</a>	87
6.52	<a href="#">linux_getpeername_args Struct Reference</a>	88
6.53	<a href="#">linux_getsockname_args Struct Reference</a>	89
6.54	<a href="#">linux_getsockopt_args Struct Reference</a>	90
6.55	<a href="#">linux_hd_big_geometry Struct Reference</a>	91
6.56	<a href="#">linux_io_event Struct Reference</a>	92
6.57	<a href="#">linux_iocb Struct Reference</a>	93
6.58	<a href="#">linux_listen_args Struct Reference</a>	95
6.59	<a href="#">linux_mixer_info Struct Reference</a>	96
6.60	<a href="#">linux_old_mixer_info Struct Reference</a>	97
6.61	<a href="#">linux_prison Struct Reference</a>	98
6.62	<a href="#">linux_recv_args Struct Reference</a>	99
6.63	<a href="#">linux_recvfrom_args Struct Reference</a>	100
6.64	<a href="#">linux_recvmsg_args Struct Reference</a>	101
6.65	<a href="#">linux_send_args Struct Reference</a>	102
6.66	<a href="#">linux_sendmsg_args Struct Reference</a>	103
6.67	<a href="#">linux_sendto_args Struct Reference</a>	104
6.68	<a href="#">linux_serial_struct Struct Reference</a>	106
6.69	<a href="#">linux_setsockopt_args Struct Reference</a>	108
6.70	<a href="#">linux_shutdown_args Struct Reference</a>	109
6.71	<a href="#">linux_socket_args Struct Reference</a>	110
6.72	<a href="#">linux_socketpair_args Struct Reference</a>	111
6.73	<a href="#">linux_termio Struct Reference</a>	112
6.74	<a href="#">linux_termios Struct Reference</a>	114
6.75	<a href="#">linux_winsize Struct Reference</a>	116
6.76	<a href="#">waiting_proc Struct Reference</a>	117
<b>7</b>	<b>FreeBSD kernel i386 linuxolator code File Documentation</b>	<b>119</b>
7.1	<a href="#">notreviewed.dox File Reference</a>	119
7.2	<a href="#">/usr/src/sys/compat/linux/linux_aio.c File Reference</a>	120
7.3	<a href="#">/usr/src/sys/compat/linux/linux_aio.h File Reference</a>	131
7.4	<a href="#">/usr/src/sys/compat/linux/linux_emul.c File Reference</a>	133
7.5	<a href="#">/usr/src/sys/compat/linux/linux_emul.h File Reference</a>	137
7.6	<a href="#">/usr/src/sys/compat/linux/linux_file.c File Reference</a>	140

---

7.7	<a href="#">/usr/src/sys/compat/linux/linux_futex.c File Reference</a>	149
7.8	<a href="#">/usr/src/sys/compat/linux/linux_futex.h File Reference</a>	152
7.9	<a href="#">/usr/src/sys/compat/linux/linux_getcwd.c File Reference</a>	155
7.10	<a href="#">/usr/src/sys/compat/linux/linux_ioctl.c File Reference</a>	158
7.11	<a href="#">/usr/src/sys/compat/linux/linux_ioctl.h File Reference</a>	177
7.12	<a href="#">/usr/src/sys/compat/linux/linux_ipc.c File Reference</a>	228
7.13	<a href="#">/usr/src/sys/compat/linux/linux_ipc.h File Reference</a>	238
7.14	<a href="#">/usr/src/sys/compat/linux/linux_mib.c File Reference</a>	239
7.15	<a href="#">/usr/src/sys/compat/linux/linux_mib.h File Reference</a>	244
7.16	<a href="#">/usr/src/sys/compat/linux/linux_misc.c File Reference</a>	246
7.17	<a href="#">/usr/src/sys/compat/linux/linux_misc.h File Reference</a>	259
7.18	<a href="#">/usr/src/sys/compat/linux/linux_signal.c File Reference</a>	260
7.19	<a href="#">/usr/src/sys/compat/linux/linux_signal.h File Reference</a>	267
7.20	<a href="#">/usr/src/sys/compat/linux/linux_socket.c File Reference</a>	269
7.21	<a href="#">/usr/src/sys/compat/linux/linux_socket.h File Reference</a>	281
7.22	<a href="#">/usr/src/sys/compat/linux/linux_stats.c File Reference</a>	284
7.23	<a href="#">/usr/src/sys/compat/linux/linux_sysctl.c File Reference</a>	292
7.24	<a href="#">/usr/src/sys/compat/linux/linux_sysproto.h File Reference</a>	295
7.25	<a href="#">/usr/src/sys/compat/linux/linux_time.c File Reference</a>	296
7.26	<a href="#">/usr/src/sys/compat/linux/linux_uid16.c File Reference</a>	299
7.27	<a href="#">/usr/src/sys/compat/linux/linux_util.c File Reference</a>	303
7.28	<a href="#">/usr/src/sys/compat/linux/linux_util.h File Reference</a>	307

## Chapter 1

# FreeBSD kernel i386 linuxolator code Main Page

**IMPORTANT:** This API documentation may contain both functions which are public and functions that are for internal use only. Since we have not reviewed every part of the documentation yet, *some internal functions are not marked as such*. Until we finish reviewing the API documentation and add appropriate comments to functions which are only for internal use, you should take this into account. In case you want to use a function of this kernel subsystem in another kernel subsystem you should search for precedence of use outside this subsystem. If the function is not used outside this subsystem you should ask on the mailinglists about it, else you risk breaking something.





## Chapter 2

# FreeBSD kernel i386 linuxolator code Directory Hierarchy

### 2.1 FreeBSD kernel i386 linuxolator code Directories

This directory hierarchy is sorted roughly, but not completely, alphabetically:

usr . . . . .	13
src . . . . .	11
sys . . . . .	12
compat . . . . .	9
linux . . . . .	10



# Chapter 3

## FreeBSD kernel i386 linuxolator code Data Structure Index

### 3.1 FreeBSD kernel i386 linuxolator code Data Structures

Here are the data structures with brief descriptions:

<a href="#">device_element</a>	15
<a href="#">futex</a>	16
<a href="#">handler_element</a>	17
<a href="#">l_cdrom_read_audio</a>	18
<a href="#">l_dirent</a>	19
<a href="#">l_dirent64</a>	20
<a href="#">l_dvd_authinfo</a>	21
<a href="#">l_dvd_bca</a>	23
<a href="#">l_dvd_copyright</a>	24
<a href="#">l_dvd_disckey</a>	25
<a href="#">l_dvd_host_send_challenge</a>	26
<a href="#">l_dvd_host_send_rpcstate</a>	27
<a href="#">l_dvd_layer</a>	28
<a href="#">l_dvd_lu_send_agid</a>	30
<a href="#">l_dvd_lu_send_asf</a>	31
<a href="#">l_dvd_lu_send_challenge</a>	32
<a href="#">l_dvd_lu_send_rpcstate</a>	33
<a href="#">l_dvd_lu_send_title_key</a>	34
<a href="#">l_dvd_manufact</a>	36
<a href="#">l_dvd_physical</a>	37
<a href="#">l_dvd_send_key</a>	38
<a href="#">l_dvd_struct</a>	39
<a href="#">l_flock</a>	41
<a href="#">l_ipc_perm</a>	42
<a href="#">l_itimerval</a>	44
<a href="#">l_msginfo</a>	45
<a href="#">l_msgid_ds</a>	47
<a href="#">l_semid_ds</a>	50
<a href="#">l_seminfo</a>	52
<a href="#">l_shm_info</a>	54
<a href="#">l_shmid_ds</a>	56

l_shminfo	58
l_statfs	59
l_statfs64	61
l_sysinfo	63
l_times_argv	66
l_ustat	67
linux_accept_args	68
linux_aio_context	69
linux_aio_request	71
linux_aio_ring	72
linux_bind_args	74
linux_cdrom_addr	75
linux_cdrom_msf	76
linux_cdrom_subchnl	77
linux_cdrom_tocentry	79
linux_cdrom_tochdr	81
linux_connect_args	82
linux_device_handler	83
linux_emuldata	85
linux_emuldata_shared	87
linux_getpeername_args	88
linux_getsockname_args	89
linux_getsockopt_args	90
linux_hd_big_geometry	91
linux_io_event	92
linux_iocb	93
linux_listen_args	95
linux_mixer_info	96
linux_old_mixer_info	97
linux_prison	98
linux_recv_args	99
linux_recvfrom_args	100
linux_recvmsg_args	101
linux_send_args	102
linux_sendmsg_args	103
linux_sendto_args	104
linux_serial_struct	106
linux_setsockopt_args	108
linux_shutdown_args	109
linux_socket_args	110
linux_socketpair_args	111
linux_termio	112
linux_termios	114
linux_winsize	116
waiting_proc	117

## Chapter 4

# FreeBSD kernel i386 linuxolator code File Index

### 4.1 FreeBSD kernel i386 linuxolator code File List

Here is a list of all files with brief descriptions:

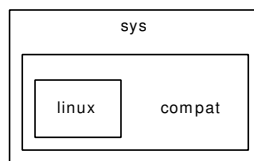
<a href="#">/usr/src/sys/compat/linux/linux_aio.c</a>	120
<a href="#">/usr/src/sys/compat/linux/linux_aio.h</a>	131
<a href="#">/usr/src/sys/compat/linux/linux_emul.c</a>	133
<a href="#">/usr/src/sys/compat/linux/linux_emul.h</a>	137
<a href="#">/usr/src/sys/compat/linux/linux_file.c</a>	140
<a href="#">/usr/src/sys/compat/linux/linux_futex.c</a>	149
<a href="#">/usr/src/sys/compat/linux/linux_futex.h</a>	152
<a href="#">/usr/src/sys/compat/linux/linux_getcwd.c</a>	155
<a href="#">/usr/src/sys/compat/linux/linux_ioctl.c</a>	158
<a href="#">/usr/src/sys/compat/linux/linux_ioctl.h</a>	177
<a href="#">/usr/src/sys/compat/linux/linux_ipc.c</a>	228
<a href="#">/usr/src/sys/compat/linux/linux_ipc.h</a>	238
<a href="#">/usr/src/sys/compat/linux/linux_mib.c</a>	239
<a href="#">/usr/src/sys/compat/linux/linux_mib.h</a>	244
<a href="#">/usr/src/sys/compat/linux/linux_misc.c</a>	246
<a href="#">/usr/src/sys/compat/linux/linux_misc.h</a>	259
<a href="#">/usr/src/sys/compat/linux/linux_signal.c</a>	260
<a href="#">/usr/src/sys/compat/linux/linux_signal.h</a>	267
<a href="#">/usr/src/sys/compat/linux/linux_socket.c</a>	269
<a href="#">/usr/src/sys/compat/linux/linux_socket.h</a>	281
<a href="#">/usr/src/sys/compat/linux/linux_stats.c</a>	284
<a href="#">/usr/src/sys/compat/linux/linux_sysctl.c</a>	292
<a href="#">/usr/src/sys/compat/linux/linux_sysproto.h</a>	295
<a href="#">/usr/src/sys/compat/linux/linux_time.c</a>	296
<a href="#">/usr/src/sys/compat/linux/linux_uid16.c</a>	299
<a href="#">/usr/src/sys/compat/linux/linux_util.c</a>	303
<a href="#">/usr/src/sys/compat/linux/linux_util.h</a>	307



## Chapter 5

# FreeBSD kernel i386 linuxolator code Directory Documentation

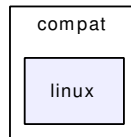
### 5.1 /usr/src/sys/compat/ Directory Reference



#### Directories

- directory [linux](#)

## 5.2 /usr/src/sys/compat/linux/ Directory Reference

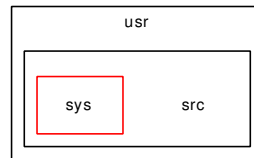


### Files

- file [linux\\_aio.c](#)
- file [linux\\_aio.h](#)
- file [linux\\_emul.c](#)
- file [linux\\_emul.h](#)
- file [linux\\_file.c](#)
- file [linux\\_futex.c](#)
- file [linux\\_futex.h](#)
- file [linux\\_getcwd.c](#)
- file [linux\\_ioctl.c](#)
- file [linux\\_ioctl.h](#)
- file [linux\\_ipc.c](#)
- file [linux\\_ipc.h](#)
- file [linux\\_mib.c](#)
- file [linux\\_mib.h](#)
- file [linux\\_misc.c](#)
- file [linux\\_misc.h](#)
- file [linux\\_signal.c](#)
- file [linux\\_signal.h](#)
- file [linux\\_socket.c](#)
- file [linux\\_socket.h](#)
- file [linux\\_stats.c](#)
- file [linux\\_sysctl.c](#)
- file [linux\\_sysproto.h](#)
- file [linux\\_time.c](#)
- file [linux\\_uid16.c](#)
- file [linux\\_util.c](#)
- file [linux\\_util.h](#)



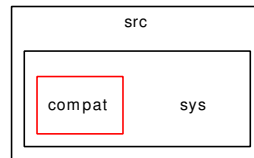
## 5.3 /usr/src/ Directory Reference



### Directories

- directory [sys](#)

## 5.4 /usr/src/sys/ Directory Reference



### Directories

- directory [compat](#)

## 5.5 /usr/ Directory Reference



### Directories

- directory [src](#)



## Chapter 6

# FreeBSD kernel i386 linuxolator code Data Structure Documentation

### 6.1 device\_element Struct Reference

#### 6.1.1 Detailed Description

Definition at line 95 of file linux\_util.c.

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_util.c](#)

## 6.2 futex Struct Reference

### Data Fields

- void \* [f\\_uaddr](#)
- int [f\\_refcount](#)

### 6.2.1 Detailed Description

Definition at line 69 of file [linux\\_futex.c](#).

### 6.2.2 Field Documentation

#### 6.2.2.1 int [futex::f\\_refcount](#)

Definition at line 71 of file [linux\\_futex.c](#).

Referenced by [futex\\_get\(\)](#).

#### 6.2.2.2 void\* [futex::f\\_uaddr](#)

Definition at line 70 of file [linux\\_futex.c](#).

Referenced by [futex\\_get\(\)](#), and [futex\\_wake\(\)](#).

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_futex.c](#)

## 6.3 handler\_element Struct Reference

### 6.3.1 Detailed Description

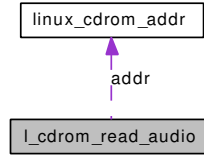
Definition at line 123 of file linux\_ioctl.c.

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_ioctl.c](#)

## 6.4 l\_cdrom\_read\_audio Struct Reference

Collaboration diagram for l\_cdrom\_read\_audio:



### Data Fields

- [linux\\_cdrom\\_addr](#) `addr`
- `u_char` [addr\\_format](#)
- `l_int` [nframes](#)
- `u_char *` [buf](#)

### 6.4.1 Detailed Description

Definition at line 1053 of file `linux_ioctl.c`.

### 6.4.2 Field Documentation

#### 6.4.2.1 `union linux_cdrom_addr l_cdrom_read_audio::addr`

Definition at line 1054 of file `linux_ioctl.c`.

#### 6.4.2.2 `u_char l_cdrom_read_audio::addr_format`

Definition at line 1055 of file `linux_ioctl.c`.

#### 6.4.2.3 `u_char* l_cdrom_read_audio::buf`

Definition at line 1057 of file `linux_ioctl.c`.

#### 6.4.2.4 `l_int l_cdrom_read_audio::nframes`

Definition at line 1056 of file `linux_ioctl.c`.

The documentation for this struct was generated from the following file:

- `/usr/src/sys/compat/linux/linux_ioctl.c`



## 6.5 `l_dirent` Struct Reference

### Data Fields

- `l_long d_ino`
- `l_off_t d_off`
- `l_ushort d_reclen`
- `char d_name [LINUX_NAME_MAX+1]`

### 6.5.1 Detailed Description

Definition at line 256 of file `linux_file.c`.

### 6.5.2 Field Documentation

#### 6.5.2.1 `l_long l_dirent::d_ino`

Definition at line 257 of file `linux_file.c`.

Referenced by `getdents_common()`.

#### 6.5.2.2 `char l_dirent::d_name[LINUX_NAME_MAX+1]`

Definition at line 260 of file `linux_file.c`.

Referenced by `getdents_common()`.

#### 6.5.2.3 `l_off_t l_dirent::d_off`

Definition at line 258 of file `linux_file.c`.

Referenced by `getdents_common()`.

#### 6.5.2.4 `l_ushort l_dirent::d_reclen`

Definition at line 259 of file `linux_file.c`.

Referenced by `getdents_common()`.

The documentation for this struct was generated from the following file:

- `/usr/src/sys/compat/linux/linux_file.c`

## 6.6 `l_dirent64` Struct Reference

### Data Fields

- `uint64_t d_ino`
- `int64_t d_off`
- `l_ushort d_reclen`
- `u_char d_type`
- `char d_name [LINUX_NAME_MAX+1]`

### 6.6.1 Detailed Description

Definition at line 263 of file `linux_file.c`.

### 6.6.2 Field Documentation

#### 6.6.2.1 `uint64_t l_dirent64::d_ino`

Definition at line 264 of file `linux_file.c`.

Referenced by `getdents_common()`.

#### 6.6.2.2 `char l_dirent64::d_name[LINUX_NAME_MAX+1]`

Definition at line 268 of file `linux_file.c`.

Referenced by `getdents_common()`.

#### 6.6.2.3 `int64_t l_dirent64::d_off`

Definition at line 265 of file `linux_file.c`.

Referenced by `getdents_common()`.

#### 6.6.2.4 `l_ushort l_dirent64::d_reclen`

Definition at line 266 of file `linux_file.c`.

Referenced by `getdents_common()`.

#### 6.6.2.5 `u_char l_dirent64::d_type`

Definition at line 267 of file `linux_file.c`.

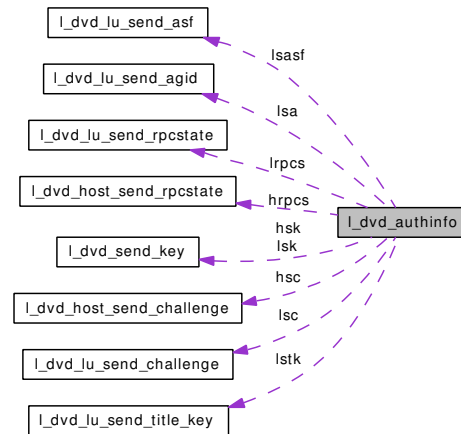
Referenced by `getdents_common()`.

The documentation for this struct was generated from the following file:

- `/usr/src/sys/compat/linux/linux_file.c`

## 6.7 l\_dvd\_authinfo Union Reference

Collaboration diagram for l\_dvd\_authinfo:



### Data Fields

- `u_char` type
- `l_dvd_lu_send_agid` `lsa`
- `l_dvd_host_send_challenge` `hsc`
- `l_dvd_send_key` `lsk`
- `l_dvd_lu_send_challenge` `lsc`
- `l_dvd_send_key` `hsk`
- `l_dvd_lu_send_title_key` `lstk`
- `l_dvd_lu_send_asf` `lsaf`
- `l_dvd_host_send_rpcstate` `hrpcs`
- `l_dvd_lu_send_rpcstate` `lrpcs`

### 6.7.1 Detailed Description

Definition at line 1172 of file `linux_ioctl.c`.

### 6.7.2 Field Documentation

#### 6.7.2.1 struct `l_dvd_host_send_rpcstate` `l_dvd_authinfo::hrpcs`

Definition at line 1181 of file `linux_ioctl.c`.

Referenced by `linux_to_bsd_dvd_authinfo()`.

#### 6.7.2.2 struct `l_dvd_host_send_challenge` `l_dvd_authinfo::hsc`

Definition at line 1175 of file `linux_ioctl.c`.

Referenced by `linux_to_bsd_dvd_authinfo()`.

**6.7.2.3 struct [l\\_dvd\\_send\\_key](#) [l\\_dvd\\_authinfo::hsk](#)**

Definition at line 1178 of file `linux_ioctl.c`.

Referenced by `linux_to_bsd_dvd_authinfo()`.

**6.7.2.4 struct [l\\_dvd\\_lu\\_send\\_rpcstate](#) [l\\_dvd\\_authinfo::lrpcs](#)**

Definition at line 1182 of file `linux_ioctl.c`.

Referenced by `bsd_to_linux_dvd_authinfo()`.

**6.7.2.5 struct [l\\_dvd\\_lu\\_send\\_agid](#) [l\\_dvd\\_authinfo::lsa](#)**

Definition at line 1174 of file `linux_ioctl.c`.

Referenced by `bsd_to_linux_dvd_authinfo()`, and `linux_to_bsd_dvd_authinfo()`.

**6.7.2.6 struct [l\\_dvd\\_lu\\_send\\_asf](#) [l\\_dvd\\_authinfo::lsaf](#)**

Definition at line 1180 of file `linux_ioctl.c`.

Referenced by `bsd_to_linux_dvd_authinfo()`, and `linux_to_bsd_dvd_authinfo()`.

**6.7.2.7 struct [l\\_dvd\\_lu\\_send\\_challenge](#) [l\\_dvd\\_authinfo::lsc](#)**

Definition at line 1177 of file `linux_ioctl.c`.

Referenced by `bsd_to_linux_dvd_authinfo()`, and `linux_to_bsd_dvd_authinfo()`.

**6.7.2.8 struct [l\\_dvd\\_send\\_key](#) [l\\_dvd\\_authinfo::lsk](#)**

Definition at line 1176 of file `linux_ioctl.c`.

Referenced by `bsd_to_linux_dvd_authinfo()`, and `linux_to_bsd_dvd_authinfo()`.

**6.7.2.9 struct [l\\_dvd\\_lu\\_send\\_title\\_key](#) [l\\_dvd\\_authinfo::lstk](#)**

Definition at line 1179 of file `linux_ioctl.c`.

Referenced by `bsd_to_linux_dvd_authinfo()`, and `linux_to_bsd_dvd_authinfo()`.

**6.7.2.10 u\_char [l\\_dvd\\_authinfo::type](#)**

Definition at line 1173 of file `linux_ioctl.c`.

Referenced by `bsd_to_linux_dvd_authinfo()`, and `linux_to_bsd_dvd_authinfo()`.

The documentation for this union was generated from the following file:

- `/usr/src/sys/compat/linux/linux_ioctl.c`

## 6.8 l\_dvd\_bca Struct Reference

### Data Fields

- [u\\_char type](#)
- [l\\_int len](#)
- [u\\_char value](#) [188]

### 6.8.1 Detailed Description

Definition at line 1095 of file linux\_ioctl.c.

### 6.8.2 Field Documentation

#### 6.8.2.1 l\_int l\_dvd\_bca::len

Definition at line 1097 of file linux\_ioctl.c.

Referenced by [bsd\\_to\\_linux\\_dvd\\_struct\(\)](#).

#### 6.8.2.2 u\_char l\_dvd\_bca::type

Definition at line 1096 of file linux\_ioctl.c.

#### 6.8.2.3 u\_char l\_dvd\_bca::value[188]

Definition at line 1098 of file linux\_ioctl.c.

Referenced by [bsd\\_to\\_linux\\_dvd\\_struct\(\)](#).

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_ioctl.c](#)

## 6.9 l\_dvd\_copyright Struct Reference

### Data Fields

- u\_char [type](#)
- u\_char [layer\\_num](#)
- u\_char [cpst](#)
- u\_char [rmi](#)

### 6.9.1 Detailed Description

Definition at line 1082 of file linux\_ioctl.c.

### 6.9.2 Field Documentation

#### 6.9.2.1 u\_char [l\\_dvd\\_copyright::cpst](#)

Definition at line 1085 of file linux\_ioctl.c.

Referenced by [bsd\\_to\\_linux\\_dvd\\_struct\(\)](#).

#### 6.9.2.2 u\_char [l\\_dvd\\_copyright::layer\\_num](#)

Definition at line 1084 of file linux\_ioctl.c.

Referenced by [linux\\_to\\_bsd\\_dvd\\_struct\(\)](#).

#### 6.9.2.3 u\_char [l\\_dvd\\_copyright::rmi](#)

Definition at line 1086 of file linux\_ioctl.c.

Referenced by [bsd\\_to\\_linux\\_dvd\\_struct\(\)](#).

#### 6.9.2.4 u\_char [l\\_dvd\\_copyright::type](#)

Definition at line 1083 of file linux\_ioctl.c.

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_ioctl.c](#)

## 6.10 l\_dvd\_disckey Struct Reference

### Data Fields

- u\_char [type](#)
- l\_uint [agid:2](#)
- u\_char [value](#) [2048]

### 6.10.1 Detailed Description

Definition at line 1089 of file linux\_ioctl.c.

### 6.10.2 Field Documentation

#### 6.10.2.1 l\_uint l\_dvd\_disckey::agid

Definition at line 1091 of file linux\_ioctl.c.

Referenced by linux\_to\_bsd\_dvd\_struct().

#### 6.10.2.2 u\_char l\_dvd\_disckey::type

Definition at line 1090 of file linux\_ioctl.c.

#### 6.10.2.3 u\_char l\_dvd\_disckey::value[2048]

Definition at line 1092 of file linux\_ioctl.c.

Referenced by bsd\_to\_linux\_dvd\_struct().

The documentation for this struct was generated from the following file:

- /usr/src/sys/compat/linux/linux\_ioctl.c

## 6.11 `l_dvd_host_send_challenge` Struct Reference

### Data Fields

- `u_char` [type](#)
- `l_uint` [agid:2](#)
- `l_dvd_challenge` [chal](#)

### 6.11.1 Detailed Description

Definition at line 1125 of file `linux_ioctl.c`.

### 6.11.2 Field Documentation

#### 6.11.2.1 `l_uint l_dvd_host_send_challenge::agid`

Definition at line 1127 of file `linux_ioctl.c`.

Referenced by `linux_to_bsd_dvd_authinfo()`.

#### 6.11.2.2 `l_dvd_challenge l_dvd_host_send_challenge::chal`

Definition at line 1128 of file `linux_ioctl.c`.

Referenced by `linux_to_bsd_dvd_authinfo()`.

#### 6.11.2.3 `u_char l_dvd_host_send_challenge::type`

Definition at line 1126 of file `linux_ioctl.c`.

The documentation for this struct was generated from the following file:

- `/usr/src/sys/compat/linux/linux_ioctl.c`



## 6.12 l\_dvd\_host\_send\_rpcstate Struct Reference

### Data Fields

- u\_char [type](#)
- u\_char [pdrc](#)

### 6.12.1 Detailed Description

Definition at line 1159 of file linux\_ioctl.c.

### 6.12.2 Field Documentation

#### 6.12.2.1 u\_char [l\\_dvd\\_host\\_send\\_rpcstate::pdrc](#)

Definition at line 1161 of file linux\_ioctl.c.

Referenced by [linux\\_to\\_bsd\\_dvd\\_authinfo\(\)](#).

#### 6.12.2.2 u\_char [l\\_dvd\\_host\\_send\\_rpcstate::type](#)

Definition at line 1160 of file linux\_ioctl.c.

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_ioctl.c](#)

## 6.13 l\_dvd\_layer Struct Reference

### Data Fields

- u\_char [book\\_version](#):4
- u\_char [book\\_type](#):4
- u\_char [min\\_rate](#):4
- u\_char [disc\\_size](#):4
- u\_char [layer\\_type](#):4
- u\_char [track\\_path](#):1
- u\_char [nlayers](#):2
- u\_char [track\\_density](#):4
- u\_char [linear\\_density](#):4
- u\_char [bca](#):1
- u\_int32\_t [start\\_sector](#)
- u\_int32\_t [end\\_sector](#)
- u\_int32\_t [end\\_sector\\_l0](#)

### 6.13.1 Detailed Description

Definition at line 1060 of file linux\_ioctl.c.

### 6.13.2 Field Documentation

#### 6.13.2.1 u\_char l\_dvd\_layer::bca

Definition at line 1070 of file linux\_ioctl.c.

#### 6.13.2.2 u\_char l\_dvd\_layer::book\_type

Definition at line 1062 of file linux\_ioctl.c.

#### 6.13.2.3 u\_char l\_dvd\_layer::book\_version

Definition at line 1061 of file linux\_ioctl.c.

Referenced by [bsd\\_to\\_linux\\_dvd\\_struct\(\)](#).

#### 6.13.2.4 u\_char l\_dvd\_layer::disc\_size

Definition at line 1064 of file linux\_ioctl.c.

#### 6.13.2.5 u\_int32\_t l\_dvd\_layer::end\_sector

Definition at line 1072 of file linux\_ioctl.c.

**6.13.2.6** `u_int32_t l_dvd_layer::end_sector_l0`

Definition at line 1073 of file `linux_ioctl.c`.

**6.13.2.7** `u_char l_dvd_layer::layer_type`

Definition at line 1065 of file `linux_ioctl.c`.

**6.13.2.8** `u_char l_dvd_layer::linear_density`

Definition at line 1069 of file `linux_ioctl.c`.

**6.13.2.9** `u_char l_dvd_layer::min_rate`

Definition at line 1063 of file `linux_ioctl.c`.

**6.13.2.10** `u_char l_dvd_layer::nlayers`

Definition at line 1067 of file `linux_ioctl.c`.

**6.13.2.11** `u_int32_t l_dvd_layer::start_sector`

Definition at line 1071 of file `linux_ioctl.c`.

**6.13.2.12** `u_char l_dvd_layer::track_density`

Definition at line 1068 of file `linux_ioctl.c`.

**6.13.2.13** `u_char l_dvd_layer::track_path`

Definition at line 1066 of file `linux_ioctl.c`.

The documentation for this struct was generated from the following file:

- `/usr/src/sys/compat/linux/linux_ioctl.c`

## 6.14 l\_dvd\_lu\_send\_agid Struct Reference

### Data Fields

- u\_char [type](#)
- l\_uint [agid:2](#)

### 6.14.1 Detailed Description

Definition at line 1120 of file linux\_ioctl.c.

### 6.14.2 Field Documentation

#### 6.14.2.1 l\_uint [l\\_dvd\\_lu\\_send\\_agid::agid](#)

Definition at line 1122 of file linux\_ioctl.c.

Referenced by [bsd\\_to\\_linux\\_dvd\\_authinfo\(\)](#), and [linux\\_to\\_bsd\\_dvd\\_authinfo\(\)](#).

#### 6.14.2.2 u\_char [l\\_dvd\\_lu\\_send\\_agid::type](#)

Definition at line 1121 of file linux\_ioctl.c.

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_ioctl.c](#)

## 6.15 `l_dvd_lu_send_asf` Struct Reference

### Data Fields

- `u_char` [type](#)
- `l_uint` [agid:2](#)
- `l_uint` [asf:1](#)

### 6.15.1 Detailed Description

Definition at line 1153 of file `linux_ioctl.c`.

### 6.15.2 Field Documentation

#### 6.15.2.1 `l_uint l_dvd_lu_send_asf::agid`

Definition at line 1155 of file `linux_ioctl.c`.

Referenced by `linux_to_bsd_dvd_authinfo()`.

#### 6.15.2.2 `l_uint l_dvd_lu_send_asf::asf`

Definition at line 1156 of file `linux_ioctl.c`.

Referenced by `bsd_to_linux_dvd_authinfo()`.

#### 6.15.2.3 `u_char l_dvd_lu_send_asf::type`

Definition at line 1154 of file `linux_ioctl.c`.

The documentation for this struct was generated from the following file:

- `/usr/src/sys/compat/linux/linux_ioctl.c`

## 6.16 l\_dvd\_lu\_send\_challenge Struct Reference

### Data Fields

- [u\\_char type](#)
- [l\\_uint agid:2](#)
- [l\\_dvd\\_challenge chal](#)

### 6.16.1 Detailed Description

Definition at line 1137 of file linux\_ioctl.c.

### 6.16.2 Field Documentation

#### 6.16.2.1 [l\\_uint l\\_dvd\\_lu\\_send\\_challenge::agid](#)

Definition at line 1139 of file linux\_ioctl.c.

Referenced by [linux\\_to\\_bsd\\_dvd\\_authinfo\(\)](#).

#### 6.16.2.2 [l\\_dvd\\_challenge l\\_dvd\\_lu\\_send\\_challenge::chal](#)

Definition at line 1140 of file linux\_ioctl.c.

Referenced by [bsd\\_to\\_linux\\_dvd\\_authinfo\(\)](#).

#### 6.16.2.3 [u\\_char l\\_dvd\\_lu\\_send\\_challenge::type](#)

Definition at line 1138 of file linux\_ioctl.c.

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_ioctl.c](#)

## 6.17 `l_dvd_lu_send_rpcstate` Struct Reference

### Data Fields

- `u_char type`:2
- `u_char vra`:3
- `u_char ucca`:3
- `u_char region_mask`
- `u_char rpc_scheme`

### 6.17.1 Detailed Description

Definition at line 1164 of file `linux_ioctl.c`.

### 6.17.2 Field Documentation

#### 6.17.2.1 `u_char l_dvd_lu_send_rpcstate::region_mask`

Definition at line 1168 of file `linux_ioctl.c`.

Referenced by `bsd_to_linux_dvd_authinfo()`.

#### 6.17.2.2 `u_char l_dvd_lu_send_rpcstate::rpc_scheme`

Definition at line 1169 of file `linux_ioctl.c`.

Referenced by `bsd_to_linux_dvd_authinfo()`.

#### 6.17.2.3 `u_char l_dvd_lu_send_rpcstate::type`

Definition at line 1165 of file `linux_ioctl.c`.

Referenced by `bsd_to_linux_dvd_authinfo()`.

#### 6.17.2.4 `u_char l_dvd_lu_send_rpcstate::ucca`

Definition at line 1167 of file `linux_ioctl.c`.

Referenced by `bsd_to_linux_dvd_authinfo()`.

#### 6.17.2.5 `u_char l_dvd_lu_send_rpcstate::vra`

Definition at line 1166 of file `linux_ioctl.c`.

Referenced by `bsd_to_linux_dvd_authinfo()`.

The documentation for this struct was generated from the following file:

- `/usr/src/sys/compat/linux/linux_ioctl.c`

## 6.18 l\_dvd\_lu\_send\_title\_key Struct Reference

### Data Fields

- u\_char [type](#)
- l\_uint [agid:2](#)
- l\_dvd\_key [title\\_key](#)
- l\_int [lba](#)
- l\_uint [cpm:1](#)
- l\_uint [cp\\_sec:1](#)
- l\_uint [cgms:2](#)

### 6.18.1 Detailed Description

Definition at line 1143 of file linux\_ioctl.c.

### 6.18.2 Field Documentation

#### 6.18.2.1 l\_uint l\_dvd\_lu\_send\_title\_key::agid

Definition at line 1145 of file linux\_ioctl.c.

Referenced by [linux\\_to\\_bsd\\_dvd\\_authinfo\(\)](#).

#### 6.18.2.2 l\_uint l\_dvd\_lu\_send\_title\_key::cgms

Definition at line 1150 of file linux\_ioctl.c.

Referenced by [bsd\\_to\\_linux\\_dvd\\_authinfo\(\)](#).

#### 6.18.2.3 l\_uint l\_dvd\_lu\_send\_title\_key::cp\_sec

Definition at line 1149 of file linux\_ioctl.c.

Referenced by [bsd\\_to\\_linux\\_dvd\\_authinfo\(\)](#).

#### 6.18.2.4 l\_uint l\_dvd\_lu\_send\_title\_key::cpm

Definition at line 1148 of file linux\_ioctl.c.

Referenced by [bsd\\_to\\_linux\\_dvd\\_authinfo\(\)](#).

#### 6.18.2.5 l\_int l\_dvd\_lu\_send\_title\_key::lba

Definition at line 1147 of file linux\_ioctl.c.

Referenced by [linux\\_to\\_bsd\\_dvd\\_authinfo\(\)](#).



**6.18.2.6** `l_dvd_key l_dvd_lu_send_title_key::title_key`

Definition at line 1146 of file `linux_ioctl.c`.

Referenced by `bsd_to_linux_dvd_authinfo()`.

**6.18.2.7** `u_char l_dvd_lu_send_title_key::type`

Definition at line 1144 of file `linux_ioctl.c`.

The documentation for this struct was generated from the following file:

- `/usr/src/sys/compat/linux/linux_ioctl.c`

## 6.19 l\_dvd\_manufact Struct Reference

### Data Fields

- u\_char [type](#)
- u\_char [layer\\_num](#)
- l\_int [len](#)
- u\_char [value](#) [2048]

### 6.19.1 Detailed Description

Definition at line 1101 of file linux\_ioctl.c.

### 6.19.2 Field Documentation

#### 6.19.2.1 u\_char [l\\_dvd\\_manufact::layer\\_num](#)

Definition at line 1103 of file linux\_ioctl.c.

#### 6.19.2.2 l\_int [l\\_dvd\\_manufact::len](#)

Definition at line 1104 of file linux\_ioctl.c.

Referenced by [bsd\\_to\\_linux\\_dvd\\_struct\(\)](#).

#### 6.19.2.3 u\_char [l\\_dvd\\_manufact::type](#)

Definition at line 1102 of file linux\_ioctl.c.

#### 6.19.2.4 u\_char [l\\_dvd\\_manufact::value](#)[2048]

Definition at line 1105 of file linux\_ioctl.c.

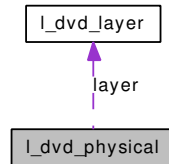
Referenced by [bsd\\_to\\_linux\\_dvd\\_struct\(\)](#).

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_ioctl.c](#)

## 6.20 l\_dvd\_physical Struct Reference

Collaboration diagram for l\_dvd\_physical:



### Data Fields

- u\_char [type](#)
- u\_char [layer\\_num](#)
- [l\\_dvd\\_layer](#) [layer](#) [4]

### 6.20.1 Detailed Description

Definition at line 1076 of file linux\_ioctl.c.

### 6.20.2 Field Documentation

#### 6.20.2.1 struct [l\\_dvd\\_layer](#) [l\\_dvd\\_physical::layer](#)[4]

Definition at line 1079 of file linux\_ioctl.c.

Referenced by [bsd\\_to\\_linux\\_dvd\\_struct\(\)](#).

#### 6.20.2.2 u\_char [l\\_dvd\\_physical::layer\\_num](#)

Definition at line 1078 of file linux\_ioctl.c.

Referenced by [linux\\_to\\_bsd\\_dvd\\_struct\(\)](#).

#### 6.20.2.3 u\_char [l\\_dvd\\_physical::type](#)

Definition at line 1077 of file linux\_ioctl.c.

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_ioctl.c](#)

## 6.21 l\_dvd\_send\_key Struct Reference

### Data Fields

- [u\\_char type](#)
- [l\\_uint agid:2](#)
- [l\\_dvd\\_key key](#)

### 6.21.1 Detailed Description

Definition at line 1131 of file linux\_ioctl.c.

### 6.21.2 Field Documentation

#### 6.21.2.1 l\_uint l\_dvd\_send\_key::agid

Definition at line 1133 of file linux\_ioctl.c.

Referenced by linux\_to\_bsd\_dvd\_authinfo().

#### 6.21.2.2 l\_dvd\_key l\_dvd\_send\_key::key

Definition at line 1134 of file linux\_ioctl.c.

Referenced by bsd\_to\_linux\_dvd\_authinfo(), and linux\_to\_bsd\_dvd\_authinfo().

#### 6.21.2.3 u\_char l\_dvd\_send\_key::type

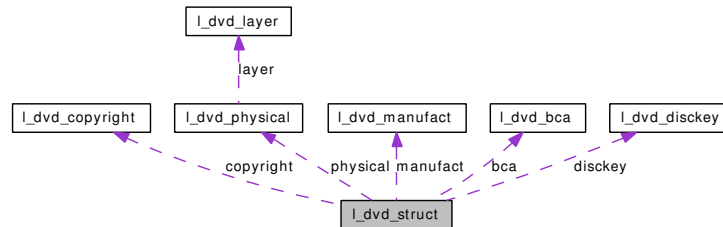
Definition at line 1132 of file linux\_ioctl.c.

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_ioctl.c](#)

## 6.22 l\_dvd\_struct Union Reference

Collaboration diagram for l\_dvd\_struct:



### Data Fields

- `u_char` type
- `l_dvd_physical` physical
- `l_dvd_copyright` copyright
- `l_dvd_disckey` disckey
- `l_dvd_bca` bca
- `l_dvd_manufact` manufact

#### 6.22.1 Detailed Description

Definition at line 1108 of file linux\_ioctl.c.

#### 6.22.2 Field Documentation

##### 6.22.2.1 struct `l_dvd_bca` `l_dvd_struct::bca`

Definition at line 1113 of file linux\_ioctl.c.

Referenced by `bsd_to_linux_dvd_struct()`.

##### 6.22.2.2 struct `l_dvd_copyright` `l_dvd_struct::copyright`

Definition at line 1111 of file linux\_ioctl.c.

Referenced by `bsd_to_linux_dvd_struct()`, and `linux_to_bsd_dvd_struct()`.

##### 6.22.2.3 struct `l_dvd_disckey` `l_dvd_struct::disckey`

Definition at line 1112 of file linux\_ioctl.c.

Referenced by `bsd_to_linux_dvd_struct()`, and `linux_to_bsd_dvd_struct()`.

##### 6.22.2.4 struct `l_dvd_manufact` `l_dvd_struct::manufact`

Definition at line 1114 of file linux\_ioctl.c.

Referenced by `bsd_to_linux_dvd_struct()`.

#### 6.22.2.5 struct `l_dvd_physical` `l_dvd_struct::physical`

Definition at line 1110 of file `linux_ioctl.c`.

Referenced by `bsd_to_linux_dvd_struct()`, and `linux_to_bsd_dvd_struct()`.

#### 6.22.2.6 u\_char `l_dvd_struct::type`

Definition at line 1109 of file `linux_ioctl.c`.

Referenced by `linux_to_bsd_dvd_struct()`.

The documentation for this union was generated from the following file:

- `/usr/src/sys/compat/linux/linux_ioctl.c`

## 6.23 `l_flock` Struct Reference

### Data Fields

- `l_short l_type`
- `l_short l_whence`
- `l_off_t l_start`
- `l_off_t l_len`
- `l_pid_t l_pid`

### 6.23.1 Detailed Description

Definition at line 894 of file `linux_file.c`.

### 6.23.2 Field Documentation

#### 6.23.2.1 `l_off_t l_flock::l_len`

Definition at line 898 of file `linux_file.c`.

Referenced by `bsd_to_linux_flock()`, and `linux_to_bsd_flock()`.

#### 6.23.2.2 `l_pid_t l_flock::l_pid`

Definition at line 899 of file `linux_file.c`.

Referenced by `bsd_to_linux_flock()`, and `linux_to_bsd_flock()`.

#### 6.23.2.3 `l_off_t l_flock::l_start`

Definition at line 897 of file `linux_file.c`.

Referenced by `bsd_to_linux_flock()`, and `linux_to_bsd_flock()`.

#### 6.23.2.4 `l_short l_flock::l_type`

Definition at line 895 of file `linux_file.c`.

Referenced by `bsd_to_linux_flock()`, and `linux_to_bsd_flock()`.

#### 6.23.2.5 `l_short l_flock::l_whence`

Definition at line 896 of file `linux_file.c`.

Referenced by `bsd_to_linux_flock()`, and `linux_to_bsd_flock()`.

The documentation for this struct was generated from the following file:

- `/usr/src/sys/compat/linux/linux_file.c`

## 6.24 l\_ipc\_perm Struct Reference

### Data Fields

- [l\\_key\\_t key](#)
- [l\\_uid16\\_t uid](#)
- [l\\_gid16\\_t gid](#)
- [l\\_uid16\\_t cuid](#)
- [l\\_gid16\\_t cgid](#)
- [l\\_ushort mode](#)
- [l\\_ushort seq](#)

### 6.24.1 Detailed Description

Definition at line 118 of file linux\_ipc.c.

### 6.24.2 Field Documentation

#### 6.24.2.1 l\_gid16\_t l\_ipc\_perm::cgid

Definition at line 123 of file linux\_ipc.c.

Referenced by [bsd\\_to\\_linux\\_ipc\\_perm\(\)](#), [linux\\_ipc\\_perm\\_to\\_ipc64\\_perm\(\)](#), and [linux\\_to\\_bsd\\_ipc\\_perm\(\)](#).

#### 6.24.2.2 l\_uid16\_t l\_ipc\_perm::cuid

Definition at line 122 of file linux\_ipc.c.

Referenced by [bsd\\_to\\_linux\\_ipc\\_perm\(\)](#), [linux\\_ipc\\_perm\\_to\\_ipc64\\_perm\(\)](#), and [linux\\_to\\_bsd\\_ipc\\_perm\(\)](#).

#### 6.24.2.3 l\_gid16\_t l\_ipc\_perm::gid

Definition at line 121 of file linux\_ipc.c.

Referenced by [bsd\\_to\\_linux\\_ipc\\_perm\(\)](#), [linux\\_ipc\\_perm\\_to\\_ipc64\\_perm\(\)](#), and [linux\\_to\\_bsd\\_ipc\\_perm\(\)](#).

#### 6.24.2.4 l\_key\_t l\_ipc\_perm::key

Definition at line 119 of file linux\_ipc.c.

Referenced by [bsd\\_to\\_linux\\_ipc\\_perm\(\)](#), [linux\\_ipc\\_perm\\_to\\_ipc64\\_perm\(\)](#), and [linux\\_to\\_bsd\\_ipc\\_perm\(\)](#).

#### 6.24.2.5 l\_ushort l\_ipc\_perm::mode

Definition at line 124 of file linux\_ipc.c.

Referenced by [bsd\\_to\\_linux\\_ipc\\_perm\(\)](#), [linux\\_ipc\\_perm\\_to\\_ipc64\\_perm\(\)](#), and [linux\\_to\\_bsd\\_ipc\\_perm\(\)](#).



#### 6.24.2.6 `l_ushort l_ipc_perm::seq`

Definition at line 125 of file `linux_ipc.c`.

Referenced by `bsd_to_linux_ipc_perm()`, `linux_ipc_perm_to_ipc64_perm()`, and `linux_to_bsd_ipc_perm()`.

#### 6.24.2.7 `l_uid16_t l_ipc_perm::uid`

Definition at line 120 of file `linux_ipc.c`.

Referenced by `bsd_to_linux_ipc_perm()`, `linux_ipc_perm_to_ipc64_perm()`, and `linux_to_bsd_ipc_perm()`.

The documentation for this struct was generated from the following file:

- `/usr/src/sys/compat/linux/linux_ipc.c`

## 6.25 `l_itimerval` Struct Reference

### Data Fields

- `l_timeval` [it\\_interval](#)
- `l_timeval` [it\\_value](#)

### 6.25.1 Detailed Description

Definition at line 976 of file `linux_misc.c`.

### 6.25.2 Field Documentation

#### 6.25.2.1 `l_timeval` [l\\_itimerval::it\\_interval](#)

Definition at line 977 of file `linux_misc.c`.

#### 6.25.2.2 `l_timeval` [l\\_itimerval::it\\_value](#)

Definition at line 978 of file `linux_misc.c`.

The documentation for this struct was generated from the following file:

- `/usr/src/sys/compat/linux/linux_misc.c`

## 6.26 l\_msginfo Struct Reference

### Data Fields

- [l\\_int msgpool](#)
- [l\\_int msgmap](#)
- [l\\_int msgmax](#)
- [l\\_int msgmnb](#)
- [l\\_int msgmni](#)
- [l\\_int msgssz](#)
- [l\\_int msgtql](#)
- [l\\_ushort msgseg](#)

### 6.26.1 Detailed Description

Definition at line 86 of file linux\_ipc.c.

### 6.26.2 Field Documentation

#### 6.26.2.1 l\_int l\_msginfo::msgmap

Definition at line 88 of file linux\_ipc.c.

Referenced by linux\_msgctl().

#### 6.26.2.2 l\_int l\_msginfo::msgmax

Definition at line 89 of file linux\_ipc.c.

Referenced by linux\_msgctl().

#### 6.26.2.3 l\_int l\_msginfo::msgmnb

Definition at line 90 of file linux\_ipc.c.

Referenced by linux\_msgctl().

#### 6.26.2.4 l\_int l\_msginfo::msgmni

Definition at line 91 of file linux\_ipc.c.

Referenced by linux\_msgctl().

#### 6.26.2.5 l\_int l\_msginfo::msgpool

Definition at line 87 of file linux\_ipc.c.

Referenced by linux\_msgctl().

**6.26.2.6** `l_ushort l_msginfo::msgseg`

Definition at line 94 of file `linux_ipc.c`.

Referenced by `linux_msgctl()`.

**6.26.2.7** `l_int l_msginfo::msgssz`

Definition at line 92 of file `linux_ipc.c`.

Referenced by `linux_msgctl()`.

**6.26.2.8** `l_int l_msginfo::msgtql`

Definition at line 93 of file `linux_ipc.c`.

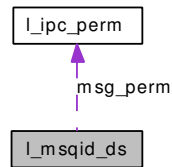
Referenced by `linux_msgctl()`.

The documentation for this struct was generated from the following file:

- `/usr/src/sys/compat/linux/linux_ipc.c`

## 6.27 l\_msgid\_ds Struct Reference

Collaboration diagram for l\_msgid\_ds:



### Data Fields

- [l\\_ipc\\_perm msg\\_perm](#)
- [l\\_uintptr\\_t msg\\_first](#)
- [l\\_uintptr\\_t msg\\_last](#)
- [l\\_time\\_t msg\\_stime](#)
- [l\\_time\\_t msg\\_rtime](#)
- [l\\_time\\_t msg\\_ctime](#)
- [l\\_ulong msg\\_lcbytes](#)
- [l\\_ulong msg\\_lqbytes](#)
- [l\\_ushort msg\\_cbytes](#)
- [l\\_ushort msg\\_qnum](#)
- [l\\_ushort msg\\_qbytes](#)
- [l\\_pid\\_t msg\\_lspid](#)
- [l\\_pid\\_t msg\\_lrpid](#)

### 6.27.1 Detailed Description

Definition at line 153 of file linux\_ipc.c.

### 6.27.2 Field Documentation

#### 6.27.2.1 l\_ushort l\_msgid\_ds::msg\_cbytes

Definition at line 162 of file linux\_ipc.c.

Referenced by [bsd\\_to\\_linux\\_msgid\\_ds\(\)](#), [linux\\_msgqid\\_pushdown\(\)](#), and [linux\\_to\\_bsd\\_msgqid\\_ds\(\)](#).

#### 6.27.2.2 l\_time\_t l\_msgid\_ds::msg\_ctime

Definition at line 159 of file linux\_ipc.c.

Referenced by [bsd\\_to\\_linux\\_msgid\\_ds\(\)](#), [linux\\_msgqid\\_pushdown\(\)](#), and [linux\\_to\\_bsd\\_msgqid\\_ds\(\)](#).

#### 6.27.2.3 l\_uintptr\_t l\_msgid\_ds::msg\_first

Definition at line 155 of file linux\_ipc.c.

**6.27.2.4** `l_uintptr_t l_msgqid_ds::msg_last`

Definition at line 156 of file linux\_ipc.c.

**6.27.2.5** `l_ulong l_msgqid_ds::msg_lbytes`

Definition at line 160 of file linux\_ipc.c.

Referenced by linux\_msgqid\_pushdown().

**6.27.2.6** `l_ulong l_msgqid_ds::msg_lqbytes`

Definition at line 161 of file linux\_ipc.c.

Referenced by linux\_msgqid\_pushdown().

**6.27.2.7** `l_pid_t l_msgqid_ds::msg_lrpid`

Definition at line 166 of file linux\_ipc.c.

Referenced by bsd\_to\_linux\_msgqid\_ds(), linux\_msgqid\_pushdown(), and linux\_to\_bsd\_msgqid\_ds().

**6.27.2.8** `l_pid_t l_msgqid_ds::msg_lspid`

Definition at line 165 of file linux\_ipc.c.

Referenced by bsd\_to\_linux\_msgqid\_ds(), linux\_msgqid\_pushdown(), and linux\_to\_bsd\_msgqid\_ds().

**6.27.2.9** `struct l_ipc_perm l_msgqid_ds::msg_perm`

Definition at line 154 of file linux\_ipc.c.

Referenced by bsd\_to\_linux\_msgqid\_ds(), linux\_msgqid\_pushdown(), and linux\_to\_bsd\_msgqid\_ds().

**6.27.2.10** `l_ushort l_msgqid_ds::msg_qbytes`

Definition at line 164 of file linux\_ipc.c.

Referenced by bsd\_to\_linux\_msgqid\_ds(), linux\_msgqid\_pushdown(), and linux\_to\_bsd\_msgqid\_ds().

**6.27.2.11** `l_ushort l_msgqid_ds::msg_qnum`

Definition at line 163 of file linux\_ipc.c.

Referenced by bsd\_to\_linux\_msgqid\_ds(), linux\_msgqid\_pushdown(), and linux\_to\_bsd\_msgqid\_ds().

**6.27.2.12** `l_time_t l_msgqid_ds::msg_rtime`

Definition at line 158 of file linux\_ipc.c.

Referenced by bsd\_to\_linux\_msgqid\_ds(), linux\_msgqid\_pushdown(), and linux\_to\_bsd\_msgqid\_ds().

### 6.27.2.13 `l_time_t l_msqid_ds::msg_stime`

Definition at line 157 of file `linux_ipc.c`.

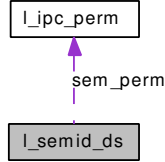
Referenced by `bsd_to_linux_msqid_ds()`, `linux_msqid_pushdown()`, and `linux_to_bsd_msqid_ds()`.

The documentation for this struct was generated from the following file:

- `/usr/src/sys/compat/linux/linux_ipc.c`

## 6.28 l\_semid\_ds Struct Reference

Collaboration diagram for l\_semid\_ds:



### Data Fields

- [l\\_ipc\\_perm](#) [sem\\_perm](#)
- [l\\_time\\_t](#) [sem\\_otime](#)
- [l\\_time\\_t](#) [sem\\_ctime](#)
- [l\\_uintptr\\_t](#) [sem\\_base](#)
- [l\\_uintptr\\_t](#) [sem\\_pending](#)
- [l\\_uintptr\\_t](#) [sem\\_pending\\_last](#)
- [l\\_uintptr\\_t](#) [undo](#)
- [l\\_ushort](#) [sem\\_nsems](#)

### 6.28.1 Detailed Description

Definition at line 173 of file linux\_ipc.c.

### 6.28.2 Field Documentation

#### 6.28.2.1 [l\\_uintptr\\_t l\\_semid\\_ds::sem\\_base](#)

Definition at line 177 of file linux\_ipc.c.

Referenced by [bsd\\_to\\_linux\\_semid\\_ds\(\)](#), and [linux\\_to\\_bsd\\_semid\\_ds\(\)](#).

#### 6.28.2.2 [l\\_time\\_t l\\_semid\\_ds::sem\\_ctime](#)

Definition at line 176 of file linux\_ipc.c.

Referenced by [bsd\\_to\\_linux\\_semid\\_ds\(\)](#), [linux\\_semid\\_pushdown\(\)](#), and [linux\\_to\\_bsd\\_semid\\_ds\(\)](#).

#### 6.28.2.3 [l\\_ushort l\\_semid\\_ds::sem\\_nsems](#)

Definition at line 181 of file linux\_ipc.c.

Referenced by [bsd\\_to\\_linux\\_semid\\_ds\(\)](#), [linux\\_semid\\_pushdown\(\)](#), and [linux\\_to\\_bsd\\_semid\\_ds\(\)](#).

#### 6.28.2.4 [l\\_time\\_t l\\_semid\\_ds::sem\\_otime](#)

Definition at line 175 of file linux\_ipc.c.

Referenced by [bsd\\_to\\_linux\\_semid\\_ds\(\)](#), [linux\\_semid\\_pushdown\(\)](#), and [linux\\_to\\_bsd\\_semid\\_ds\(\)](#).



**6.28.2.5** `l_uintptr_t l_semid_ds::sem_pending`

Definition at line 178 of file `linux_ipc.c`.

**6.28.2.6** `l_uintptr_t l_semid_ds::sem_pending_last`

Definition at line 179 of file `linux_ipc.c`.

**6.28.2.7** `struct l_ipc_perm l_semid_ds::sem_perm`

Definition at line 174 of file `linux_ipc.c`.

Referenced by `bsd_to_linux_semid_ds()`, `linux_semid_pushdown()`, and `linux_to_bsd_semid_ds()`.

**6.28.2.8** `l_uintptr_t l_semid_ds::undo`

Definition at line 180 of file `linux_ipc.c`.

The documentation for this struct was generated from the following file:

- `/usr/src/sys/compat/linux/linux_ipc.c`

## 6.29 l\_seminfo Struct Reference

### Data Fields

- [l\\_int semmap](#)
- [l\\_int semmni](#)
- [l\\_int semmns](#)
- [l\\_int semmnu](#)
- [l\\_int semmsl](#)
- [l\\_int semopm](#)
- [l\\_int semume](#)
- [l\\_int semusz](#)
- [l\\_int semvmx](#)
- [l\\_int semaem](#)

### 6.29.1 Detailed Description

Definition at line 56 of file linux\_ipc.c.

### 6.29.2 Field Documentation

#### 6.29.2.1 [l\\_int l\\_seminfo::semaem](#)

Definition at line 66 of file linux\_ipc.c.

#### 6.29.2.2 [l\\_int l\\_seminfo::semmap](#)

Definition at line 57 of file linux\_ipc.c.

#### 6.29.2.3 [l\\_int l\\_seminfo::semmni](#)

Definition at line 58 of file linux\_ipc.c.

#### 6.29.2.4 [l\\_int l\\_seminfo::semmns](#)

Definition at line 59 of file linux\_ipc.c.

#### 6.29.2.5 [l\\_int l\\_seminfo::semmnu](#)

Definition at line 60 of file linux\_ipc.c.

#### 6.29.2.6 [l\\_int l\\_seminfo::semmsl](#)

Definition at line 61 of file linux\_ipc.c.

**6.29.2.7** `l_int l_seminfo::semopm`

Definition at line 62 of file `linux_ipc.c`.

**6.29.2.8** `l_int l_seminfo::semume`

Definition at line 63 of file `linux_ipc.c`.

**6.29.2.9** `l_int l_seminfo::semusz`

Definition at line 64 of file `linux_ipc.c`.

**6.29.2.10** `l_int l_seminfo::semvmx`

Definition at line 65 of file `linux_ipc.c`.

The documentation for this struct was generated from the following file:

- `/usr/src/sys/compat/linux/linux_ipc.c`

## 6.30 `l_shm_info` Struct Reference

### Data Fields

- `l_int` [used\\_ids](#)
- `l_ulong` [shm\\_tot](#)
- `l_ulong` [shm\\_rss](#)
- `l_ulong` [shm\\_swp](#)
- `l_ulong` [swap\\_attempts](#)
- `l_ulong` [swap\\_successes](#)

### 6.30.1 Detailed Description

Definition at line 77 of file `linux_ipc.c`.

### 6.30.2 Field Documentation

#### 6.30.2.1 `l_ulong l_shm_info::shm_rss`

Definition at line 80 of file `linux_ipc.c`.

Referenced by `bsd_to_linux_shm_info()`.

#### 6.30.2.2 `l_ulong l_shm_info::shm_swp`

Definition at line 81 of file `linux_ipc.c`.

Referenced by `bsd_to_linux_shm_info()`.

#### 6.30.2.3 `l_ulong l_shm_info::shm_tot`

Definition at line 79 of file `linux_ipc.c`.

Referenced by `bsd_to_linux_shm_info()`.

#### 6.30.2.4 `l_ulong l_shm_info::swap_attempts`

Definition at line 82 of file `linux_ipc.c`.

Referenced by `bsd_to_linux_shm_info()`.

#### 6.30.2.5 `l_ulong l_shm_info::swap_successes`

Definition at line 83 of file `linux_ipc.c`.

Referenced by `bsd_to_linux_shm_info()`.

### 6.30.2.6 `l_int l_shm_info::used_ids`

Definition at line 78 of file `linux_ipc.c`.

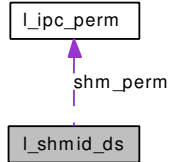
Referenced by `bsd_to_linux_shm_info()`.

The documentation for this struct was generated from the following file:

- `/usr/src/sys/compat/linux/linux_ipc.c`

## 6.31 l\_shmid\_ds Struct Reference

Collaboration diagram for l\_shmid\_ds:



### Data Fields

- [l\\_ipc\\_perm](#) [shm\\_perm](#)
- [l\\_int](#) [shm\\_segsz](#)
- [l\\_time\\_t](#) [shm\\_atime](#)
- [l\\_time\\_t](#) [shm\\_dtime](#)
- [l\\_time\\_t](#) [shm\\_ctime](#)
- [l\\_ushort](#) [shm\\_cpid](#)
- [l\\_ushort](#) [shm\\_lpid](#)
- [l\\_short](#) [shm\\_nattch](#)
- [l\\_ushort](#) [private1](#)
- [l\\_uintptr\\_t](#) [private2](#)
- [l\\_uintptr\\_t](#) [private3](#)

### 6.31.1 Detailed Description

Definition at line 188 of file linux\_ipc.c.

### 6.31.2 Field Documentation

#### 6.31.2.1 [l\\_ushort](#) [l\\_shmid\\_ds::private1](#)

Definition at line 197 of file linux\_ipc.c.

#### 6.31.2.2 [l\\_uintptr\\_t](#) [l\\_shmid\\_ds::private2](#)

Definition at line 198 of file linux\_ipc.c.

#### 6.31.2.3 [l\\_uintptr\\_t](#) [l\\_shmid\\_ds::private3](#)

Definition at line 199 of file linux\_ipc.c.

Referenced by [bsd\\_to\\_linux\\_shmid\\_ds\(\)](#), and [linux\\_to\\_bsd\\_shmid\\_ds\(\)](#).

#### 6.31.2.4 [l\\_time\\_t](#) [l\\_shmid\\_ds::shm\\_atime](#)

Definition at line 191 of file linux\_ipc.c.

Referenced by [bsd\\_to\\_linux\\_shmid\\_ds\(\)](#), [linux\\_shmid\\_pushdown\(\)](#), and [linux\\_to\\_bsd\\_shmid\\_ds\(\)](#).

**6.31.2.5** `l_ushort l_shmid_ds::shm_epid`

Definition at line 194 of file `linux_ipc.c`.

Referenced by `bsd_to_linux_shmid_ds()`, `linux_shmid_pushdown()`, and `linux_to_bsd_shmid_ds()`.

**6.31.2.6** `l_time_t l_shmid_ds::shm_ctime`

Definition at line 193 of file `linux_ipc.c`.

Referenced by `bsd_to_linux_shmid_ds()`, `linux_shmid_pushdown()`, and `linux_to_bsd_shmid_ds()`.

**6.31.2.7** `l_time_t l_shmid_ds::shm_dtime`

Definition at line 192 of file `linux_ipc.c`.

Referenced by `bsd_to_linux_shmid_ds()`, `linux_shmid_pushdown()`, and `linux_to_bsd_shmid_ds()`.

**6.31.2.8** `l_ushort l_shmid_ds::shm_lpid`

Definition at line 195 of file `linux_ipc.c`.

Referenced by `bsd_to_linux_shmid_ds()`, `linux_shmid_pushdown()`, and `linux_to_bsd_shmid_ds()`.

**6.31.2.9** `l_short l_shmid_ds::shm_nattch`

Definition at line 196 of file `linux_ipc.c`.

Referenced by `bsd_to_linux_shmid_ds()`, `linux_shmid_pushdown()`, and `linux_to_bsd_shmid_ds()`.

**6.31.2.10** `struct l_ipc_perm l_shmid_ds::shm_perm`

Definition at line 189 of file `linux_ipc.c`.

Referenced by `bsd_to_linux_shmid_ds()`, `linux_shmid_pushdown()`, and `linux_to_bsd_shmid_ds()`.

**6.31.2.11** `l_int l_shmid_ds::shm_segsz`

Definition at line 190 of file `linux_ipc.c`.

Referenced by `bsd_to_linux_shmid_ds()`, `linux_shmid_pushdown()`, and `linux_to_bsd_shmid_ds()`.

The documentation for this struct was generated from the following file:

- `/usr/src/sys/compat/linux/linux_ipc.c`

## 6.32 l\_shminfo Struct Reference

### Data Fields

- [l\\_int shmmax](#)
- [l\\_int shmmin](#)
- [l\\_int shmmni](#)
- [l\\_int shmseg](#)
- [l\\_int shmall](#)

### 6.32.1 Detailed Description

Definition at line 69 of file linux\_ipc.c.

### 6.32.2 Field Documentation

#### 6.32.2.1 l\_int l\_shminfo::shmall

Definition at line 74 of file linux\_ipc.c.

Referenced by [bsd\\_to\\_linux\\_shminfo\(\)](#), and [linux\\_shminfo\\_pushdown\(\)](#).

#### 6.32.2.2 l\_int l\_shminfo::shmmax

Definition at line 70 of file linux\_ipc.c.

Referenced by [bsd\\_to\\_linux\\_shminfo\(\)](#), and [linux\\_shminfo\\_pushdown\(\)](#).

#### 6.32.2.3 l\_int l\_shminfo::shmmin

Definition at line 71 of file linux\_ipc.c.

Referenced by [bsd\\_to\\_linux\\_shminfo\(\)](#), and [linux\\_shminfo\\_pushdown\(\)](#).

#### 6.32.2.4 l\_int l\_shminfo::shmmni

Definition at line 72 of file linux\_ipc.c.

Referenced by [bsd\\_to\\_linux\\_shminfo\(\)](#), and [linux\\_shminfo\\_pushdown\(\)](#).

#### 6.32.2.5 l\_int l\_shminfo::shmseg

Definition at line 73 of file linux\_ipc.c.

Referenced by [bsd\\_to\\_linux\\_shminfo\(\)](#), and [linux\\_shminfo\\_pushdown\(\)](#).

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_ipc.c](#)



## 6.33 l\_statfs Struct Reference

### Data Fields

- [l\\_int f\\_type](#)
- [l\\_int f\\_bsize](#)
- [l\\_int f\\_blocks](#)
- [l\\_int f\\_bfree](#)
- [l\\_int f\\_bavail](#)
- [l\\_int f\\_files](#)
- [l\\_int f\\_ffree](#)
- [l\\_fsid\\_t f\\_fsid](#)
- [l\\_int f\\_namelen](#)
- [l\\_int f\\_spare](#) [6]

### 6.33.1 Detailed Description

Definition at line 300 of file linux\_stats.c.

### 6.33.2 Field Documentation

#### 6.33.2.1 [l\\_int l\\_statfs::f\\_bavail](#)

Definition at line 305 of file linux\_stats.c.

#### 6.33.2.2 [l\\_int l\\_statfs::f\\_bfree](#)

Definition at line 304 of file linux\_stats.c.

#### 6.33.2.3 [l\\_int l\\_statfs::f\\_blocks](#)

Definition at line 303 of file linux\_stats.c.

#### 6.33.2.4 [l\\_int l\\_statfs::f\\_bsize](#)

Definition at line 302 of file linux\_stats.c.

#### 6.33.2.5 [l\\_int l\\_statfs::f\\_ffree](#)

Definition at line 307 of file linux\_stats.c.

#### 6.33.2.6 [l\\_int l\\_statfs::f\\_files](#)

Definition at line 306 of file linux\_stats.c.

**6.33.2.7** `l_fsid_t l_stats::f_fsid`

Definition at line 308 of file `linux_stats.c`.

**6.33.2.8** `l_int l_stats::f_namelen`

Definition at line 309 of file `linux_stats.c`.

**6.33.2.9** `l_int l_stats::f_spare[6]`

Definition at line 310 of file `linux_stats.c`.

**6.33.2.10** `l_int l_stats::f_type`

Definition at line 301 of file `linux_stats.c`.

The documentation for this struct was generated from the following file:

- `/usr/src/sys/compat/linux/linux_stats.c`

## 6.34 l\_statfs64 Struct Reference

### Data Fields

- [l\\_int f\\_type](#)
- [l\\_int f\\_bsize](#)
- [uint64\\_t f\\_blocks](#)
- [uint64\\_t f\\_bfree](#)
- [uint64\\_t f\\_bavail](#)
- [uint64\\_t f\\_files](#)
- [uint64\\_t f\\_ffree](#)
- [l\\_fsid\\_t f\\_fsid](#)
- [l\\_int f\\_namelen](#)
- [l\\_int f\\_spare](#) [6]

### 6.34.1 Detailed Description

Definition at line 313 of file linux\_stats.c.

### 6.34.2 Field Documentation

#### 6.34.2.1 [uint64\\_t l\\_statfs64::f\\_bavail](#)

Definition at line 318 of file linux\_stats.c.

#### 6.34.2.2 [uint64\\_t l\\_statfs64::f\\_bfree](#)

Definition at line 317 of file linux\_stats.c.

#### 6.34.2.3 [uint64\\_t l\\_statfs64::f\\_blocks](#)

Definition at line 316 of file linux\_stats.c.

#### 6.34.2.4 [l\\_int l\\_statfs64::f\\_bsize](#)

Definition at line 315 of file linux\_stats.c.

#### 6.34.2.5 [uint64\\_t l\\_statfs64::f\\_ffree](#)

Definition at line 320 of file linux\_stats.c.

#### 6.34.2.6 [uint64\\_t l\\_statfs64::f\\_files](#)

Definition at line 319 of file linux\_stats.c.

**6.34.2.7** `l_fsid_t l_stats64::f_fsid`

Definition at line 321 of file linux\_stats.c.

**6.34.2.8** `l_int l_stats64::f_namelen`

Definition at line 322 of file linux\_stats.c.

**6.34.2.9** `l_int l_stats64::f_spare[6]`

Definition at line 323 of file linux\_stats.c.

**6.34.2.10** `l_int l_stats64::f_type`

Definition at line 314 of file linux\_stats.c.

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_stats.c](#)

## 6.35 l\_sysinfo Struct Reference

### Data Fields

- l\_long [uptime](#)
- l\_ulong [loads](#) [3]
- l\_ulong [totalram](#)
- l\_ulong [freeram](#)
- l\_ulong [sharedram](#)
- l\_ulong [bufferram](#)
- l\_ulong [totalswap](#)
- l\_ulong [freeswap](#)
- l\_ushort [procs](#)
- l\_ushort [pads](#)
- l\_ulong [totalbig](#)
- l\_ulong [freebig](#)
- l\_uint [mem\\_unit](#)
- char [\\_f](#) [20-2 \*sizeof(l\_long)-sizeof(l\_int)]

### 6.35.1 Detailed Description

Definition at line 106 of file linux\_misc.c.

### 6.35.2 Field Documentation

#### 6.35.2.1 char [l\\_sysinfo::\\_f](#)[20-2 \*sizeof(l\_long)-sizeof(l\_int)]

Definition at line 121 of file linux\_misc.c.

#### 6.35.2.2 l\_ulong [l\\_sysinfo::bufferram](#)

Definition at line 113 of file linux\_misc.c.

Referenced by [linux\\_sysinfo\(\)](#).

#### 6.35.2.3 l\_ulong [l\\_sysinfo::freebig](#)

Definition at line 119 of file linux\_misc.c.

Referenced by [linux\\_sysinfo\(\)](#).

#### 6.35.2.4 l\_ulong [l\\_sysinfo::freeram](#)

Definition at line 111 of file linux\_misc.c.

Referenced by [linux\\_sysinfo\(\)](#).

**6.35.2.5** `I_ulong l_sysinfo::freeswap`

Definition at line 115 of file linux\_misc.c.

Referenced by linux\_sysinfo().

**6.35.2.6** `I_ulong l_sysinfo::loads[3]`

Definition at line 108 of file linux\_misc.c.

Referenced by linux\_sysinfo().

**6.35.2.7** `I_uint l_sysinfo::mem_unit`

Definition at line 120 of file linux\_misc.c.

Referenced by linux\_sysinfo().

**6.35.2.8** `I_ushort l_sysinfo::pads`

Definition at line 117 of file linux\_misc.c.

**6.35.2.9** `I_ushort l_sysinfo::procs`

Definition at line 116 of file linux\_misc.c.

Referenced by linux\_sysinfo().

**6.35.2.10** `I_ulong l_sysinfo::sharedram`

Definition at line 112 of file linux\_misc.c.

Referenced by linux\_sysinfo().

**6.35.2.11** `I_ulong l_sysinfo::totalbig`

Definition at line 118 of file linux\_misc.c.

Referenced by linux\_sysinfo().

**6.35.2.12** `I_ulong l_sysinfo::totalram`

Definition at line 110 of file linux\_misc.c.

Referenced by linux\_sysinfo().

**6.35.2.13** `I_ulong l_sysinfo::totalswap`

Definition at line 114 of file linux\_misc.c.

Referenced by linux\_sysinfo().

**6.35.2.14** `l_long l_sysinfo::uptime`

Definition at line 107 of file `linux_misc.c`.

Referenced by `linux_sysinfo()`.

The documentation for this struct was generated from the following file:

- `/usr/src/sys/compat/linux/linux_misc.c`

## 6.36 `l_times_argv` Struct Reference

### Data Fields

- `l_long` [tms\\_utime](#)
- `l_long` [tms\\_stime](#)
- `l_long` [tms\\_cutime](#)
- `l_long` [tms\\_cstime](#)

### 6.36.1 Detailed Description

Definition at line 646 of file `linux_misc.c`.

### 6.36.2 Field Documentation

#### 6.36.2.1 `l_long l_times_argv::tms_cstime`

Definition at line 650 of file `linux_misc.c`.

Referenced by `linux_times()`.

#### 6.36.2.2 `l_long l_times_argv::tms_cutime`

Definition at line 649 of file `linux_misc.c`.

Referenced by `linux_times()`.

#### 6.36.2.3 `l_long l_times_argv::tms_stime`

Definition at line 648 of file `linux_misc.c`.

Referenced by `linux_times()`.

#### 6.36.2.4 `l_long l_times_argv::tms_utime`

Definition at line 647 of file `linux_misc.c`.

Referenced by `linux_times()`.

The documentation for this struct was generated from the following file:

- `/usr/src/sys/compat/linux/linux_misc.c`



## 6.37 l\_ustat Struct Reference

### Data Fields

- [l\\_daddr\\_t f\\_tfree](#)
- [l\\_ino\\_t f\\_tinode](#)
- char [f\\_fname](#) [6]
- char [f\\_fpack](#) [6]

### 6.37.1 Detailed Description

Definition at line 457 of file linux\_stats.c.

### 6.37.2 Field Documentation

#### 6.37.2.1 char [l\\_ustat::f\\_fname](#)[6]

Definition at line 461 of file linux\_stats.c.

#### 6.37.2.2 char [l\\_ustat::f\\_fpack](#)[6]

Definition at line 462 of file linux\_stats.c.

#### 6.37.2.3 [l\\_daddr\\_t l\\_ustat::f\\_tfree](#)

Definition at line 459 of file linux\_stats.c.

#### 6.37.2.4 [l\\_ino\\_t l\\_ustat::f\\_tinode](#)

Definition at line 460 of file linux\_stats.c.

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_stats.c](#)

## 6.38 linux\_accept\_args Struct Reference

### Data Fields

- int [s](#)
- l\_uintptr\_t [addr](#)
- l\_uintptr\_t [namelen](#)

#### 6.38.1 Detailed Description

Definition at line 713 of file linux\_socket.c.

#### 6.38.2 Field Documentation

##### 6.38.2.1 l\_uintptr\_t linux\_accept\_args::addr

Definition at line 715 of file linux\_socket.c.

##### 6.38.2.2 l\_uintptr\_t linux\_accept\_args::namelen

Definition at line 716 of file linux\_socket.c.

##### 6.38.2.3 int linux\_accept\_args::s

Definition at line 714 of file linux\_socket.c.

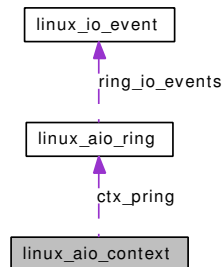
Referenced by linux\_accept().

The documentation for this struct was generated from the following file:

- /usr/src/sys/compat/linux/linux\_socket.c

## 6.39 linux\_ao\_context Struct Reference

Collaboration diagram for linux\_ao\_context:



### Data Fields

- `sx` [ctx\\_sx](#)
- `pid_t` [ctx\\_pid](#)
- `linux_ao_ring *` [ctx\\_pring](#)
- `int` [ctx\\_nreq\\_max](#)
- `int` [ctx\\_nreq\\_cur](#)

### 6.39.1 Detailed Description

Definition at line 126 of file linux\_ao.c.

### 6.39.2 Field Documentation

#### 6.39.2.1 `int` [linux\\_ao\\_context::ctx\\_nreq\\_cur](#)

Definition at line 131 of file linux\_ao.c.

Referenced by [linux\\_io\\_getevents\(\)](#), [linux\\_io\\_setup\(\)](#), and [linux\\_io\\_submit\(\)](#).

#### 6.39.2.2 `int` [linux\\_ao\\_context::ctx\\_nreq\\_max](#)

Definition at line 130 of file linux\_ao.c.

Referenced by [linux\\_io\\_getevents\(\)](#), [linux\\_io\\_setup\(\)](#), and [linux\\_io\\_submit\(\)](#).

#### 6.39.2.3 `pid_t` [linux\\_ao\\_context::ctx\\_pid](#)

Definition at line 128 of file linux\_ao.c.

Referenced by [linux\\_ao\\_proc\\_rundown\(\)](#), and [linux\\_io\\_setup\(\)](#).

#### 6.39.2.4 `struct linux_ao_ring*` [linux\\_ao\\_context::ctx\\_pring](#)

Definition at line 129 of file linux\_ao.c.

Referenced by `linux_aid_proc_rundown()`, `linux_io_destroy()`, and `linux_io_setup()`.

#### 6.39.2.5 struct `linux_aid_context::ctx_aid`

Definition at line 127 of file `linux_aid.c`.

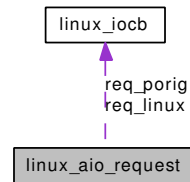
Referenced by `linux_aid_proc_rundown()`, `linux_io_destroy()`, and `linux_io_setup()`.

The documentation for this struct was generated from the following file:

- `/usr/src/sys/compat/linux/linux_aid.c`

## 6.40 linux\_aio\_request Struct Reference

Collaboration diagram for linux\_aio\_request:



### Data Fields

- aiocb \* [req\\_pbsd](#)
- [linux\\_iocb](#) \* [req\\_porig](#)
- [linux\\_iocb](#) [req\\_linux](#)

### 6.40.1 Detailed Description

Definition at line 119 of file linux\_aio.c.

### 6.40.2 Field Documentation

#### 6.40.2.1 struct [linux\\_iocb](#) [linux\\_aio\\_request::req\\_linux](#)

Definition at line 122 of file linux\_aio.c.

Referenced by [linux\\_io\\_cancel\(\)](#), [linux\\_io\\_destroy\(\)](#), [linux\\_io\\_getevents\(\)](#), and [linux\\_io\\_submit\(\)](#).

#### 6.40.2.2 struct [aiocb](#)\* [linux\\_aio\\_request::req\\_pbsd](#)

Definition at line 120 of file linux\_aio.c.

Referenced by [linux\\_io\\_cancel\(\)](#), [linux\\_io\\_destroy\(\)](#), [linux\\_io\\_getevents\(\)](#), and [linux\\_io\\_submit\(\)](#).

#### 6.40.2.3 struct [linux\\_iocb](#)\* [linux\\_aio\\_request::req\\_porig](#)

Definition at line 121 of file linux\_aio.c.

Referenced by [linux\\_io\\_cancel\(\)](#), [linux\\_io\\_destroy\(\)](#), [linux\\_io\\_getevents\(\)](#), and [linux\\_io\\_submit\(\)](#).

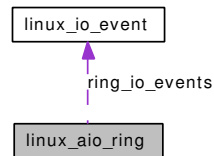
The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_aio.c](#)

## 6.41 linux\_ao\_ring Struct Reference

```
#include <linux_ao.h>
```

Collaboration diagram for linux\_ao\_ring:



### Data Fields

- `l_uint ring_id`
- `l_uint ring_nr`
- `l_uint ring_head`
- `l_uint ring_tail`
- `l_uint ring_magic`
- `l_uint ring_compat_features`
- `l_uint ring_incompat_features`
- `l_uint ring_header_length`
- `linux_io_event ring_io_events [0]`

### 6.41.1 Detailed Description

Definition at line 82 of file linux\_ao.h.

### 6.41.2 Field Documentation

#### 6.41.2.1 `l_uint linux_ao_ring::ring_compat_features`

Definition at line 90 of file linux\_ao.h.

#### 6.41.2.2 `l_uint linux_ao_ring::ring_head`

Definition at line 85 of file linux\_ao.h.

#### 6.41.2.3 `l_uint linux_ao_ring::ring_header_length`

Definition at line 93 of file linux\_ao.h.

#### 6.41.2.4 `l_uint linux_ao_ring::ring_id`

Definition at line 83 of file linux\_ao.h.

**6.41.2.5** `uint linux_ao_ring::ring_incompat_features`

Definition at line 92 of file linux\_ao.h.

**6.41.2.6** `struct linux_io_event linux_ao_ring::ring_io_events[0]`

Definition at line 95 of file linux\_ao.h.

**6.41.2.7** `uint linux_ao_ring::ring_magic`

Definition at line 88 of file linux\_ao.h.

**6.41.2.8** `uint linux_ao_ring::ring_nr`

Definition at line 84 of file linux\_ao.h.

**6.41.2.9** `uint linux_ao_ring::ring_tail`

Definition at line 86 of file linux\_ao.h.

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_ao.h](#)

## 6.42 linux\_bind\_args Struct Reference

### Data Fields

- int [s](#)
- [l\\_uintptr\\_t](#) [name](#)
- int [namelen](#)

#### 6.42.1 Detailed Description

Definition at line 606 of file [linux\\_socket.c](#).

#### 6.42.2 Field Documentation

##### 6.42.2.1 [l\\_uintptr\\_t](#) [linux\\_bind\\_args::name](#)

Definition at line 608 of file [linux\\_socket.c](#).

##### 6.42.2.2 int [linux\\_bind\\_args::namelen](#)

Definition at line 609 of file [linux\\_socket.c](#).

##### 6.42.2.3 int [linux\\_bind\\_args::s](#)

Definition at line 607 of file [linux\\_socket.c](#).

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_socket.c](#)



## 6.43 linux\_cdrom\_addr Union Reference

### Data Fields

- struct {
  - u\_char [minute](#)
  - u\_char [second](#)
  - u\_char [frame](#) } [msf](#)
- int [lba](#)

### 6.43.1 Detailed Description

Definition at line 1021 of file [linux\\_ioctl.c](#).

### 6.43.2 Field Documentation

#### 6.43.2.1 u\_char [linux\\_cdrom\\_addr::frame](#)

Definition at line 1026 of file [linux\\_ioctl.c](#).

Referenced by [bsd\\_to\\_linux\\_msf\\_lba\(\)](#), and [set\\_linux\\_cdrom\\_addr\(\)](#).

#### 6.43.2.2 int [linux\\_cdrom\\_addr::lba](#)

Definition at line 1028 of file [linux\\_ioctl.c](#).

Referenced by [bsd\\_to\\_linux\\_msf\\_lba\(\)](#), and [set\\_linux\\_cdrom\\_addr\(\)](#).

#### 6.43.2.3 u\_char [linux\\_cdrom\\_addr::minute](#)

Definition at line 1024 of file [linux\\_ioctl.c](#).

Referenced by [bsd\\_to\\_linux\\_msf\\_lba\(\)](#), and [set\\_linux\\_cdrom\\_addr\(\)](#).

#### 6.43.2.4 struct { ... } [linux\\_cdrom\\_addr::msf](#)

Referenced by [bsd\\_to\\_linux\\_msf\\_lba\(\)](#), and [set\\_linux\\_cdrom\\_addr\(\)](#).

#### 6.43.2.5 u\_char [linux\\_cdrom\\_addr::second](#)

Definition at line 1025 of file [linux\\_ioctl.c](#).

Referenced by [bsd\\_to\\_linux\\_msf\\_lba\(\)](#), and [set\\_linux\\_cdrom\\_addr\(\)](#).

The documentation for this union was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_ioctl.c](#)

## 6.44 linux\_cdrom\_msf Struct Reference

### Data Fields

- u\_char [cdmsf\\_min0](#)
- u\_char [cdmsf\\_sec0](#)
- u\_char [cdmsf\\_frame0](#)
- u\_char [cdmsf\\_min1](#)
- u\_char [cdmsf\\_sec1](#)
- u\_char [cdmsf\\_frame1](#)

### 6.44.1 Detailed Description

Definition at line 1005 of file linux\_ioctl.c.

### 6.44.2 Field Documentation

#### 6.44.2.1 u\_char [linux\\_cdrom\\_msf::cdmsf\\_frame0](#)

Definition at line 1009 of file linux\_ioctl.c.

#### 6.44.2.2 u\_char [linux\\_cdrom\\_msf::cdmsf\\_frame1](#)

Definition at line 1012 of file linux\_ioctl.c.

#### 6.44.2.3 u\_char [linux\\_cdrom\\_msf::cdmsf\\_min0](#)

Definition at line 1007 of file linux\_ioctl.c.

#### 6.44.2.4 u\_char [linux\\_cdrom\\_msf::cdmsf\\_min1](#)

Definition at line 1010 of file linux\_ioctl.c.

#### 6.44.2.5 u\_char [linux\\_cdrom\\_msf::cdmsf\\_sec0](#)

Definition at line 1008 of file linux\_ioctl.c.

#### 6.44.2.6 u\_char [linux\\_cdrom\\_msf::cdmsf\\_sec1](#)

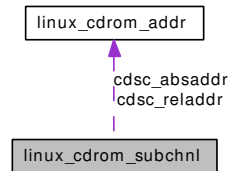
Definition at line 1011 of file linux\_ioctl.c.

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_ioctl.c](#)

## 6.45 linux\_cdrom\_subchnl Struct Reference

Collaboration diagram for linux\_cdrom\_subchnl:



### Data Fields

- u\_char [cdsc\\_format](#)
- u\_char [cdsc\\_audiostatus](#)
- u\_char [cdsc\\_adr](#):4
- u\_char [cdsc\\_ctrl](#):4
- u\_char [cdsc\\_trk](#)
- u\_char [cdsc\\_ind](#)
- [linux\\_cdrom\\_addr](#) [cdsc\\_absaddr](#)
- [linux\\_cdrom\\_addr](#) [cdsc\\_reladdr](#)

### 6.45.1 Detailed Description

Definition at line 1041 of file linux\_ioctl.c.

### 6.45.2 Field Documentation

#### 6.45.2.1 union [linux\\_cdrom\\_addr](#) [linux\\_cdrom\\_subchnl::cdsc\\_absaddr](#)

Definition at line 1049 of file linux\_ioctl.c.

#### 6.45.2.2 u\_char [linux\\_cdrom\\_subchnl::cdsc\\_adr](#)

Definition at line 1045 of file linux\_ioctl.c.

#### 6.45.2.3 u\_char [linux\\_cdrom\\_subchnl::cdsc\\_audiostatus](#)

Definition at line 1044 of file linux\_ioctl.c.

#### 6.45.2.4 u\_char [linux\\_cdrom\\_subchnl::cdsc\\_ctrl](#)

Definition at line 1046 of file linux\_ioctl.c.

#### 6.45.2.5 u\_char [linux\\_cdrom\\_subchnl::cdsc\\_format](#)

Definition at line 1043 of file linux\_ioctl.c.

**6.45.2.6 u\_char [linux\\_cdrom\\_subchnl::cdsc\\_ind](#)**

Definition at line 1048 of file [linux\\_ioctl.c](#).

**6.45.2.7 union [linux\\_cdrom\\_addr linux\\_cdrom\\_subchnl::cdsc\\_reladdr](#)**

Definition at line 1050 of file [linux\\_ioctl.c](#).

**6.45.2.8 u\_char [linux\\_cdrom\\_subchnl::cdsc\\_trk](#)**

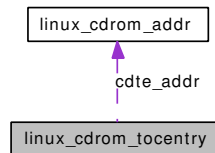
Definition at line 1047 of file [linux\\_ioctl.c](#).

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_ioctl.c](#)

## 6.46 linux\_cdrom\_tocentry Struct Reference

Collaboration diagram for linux\_cdrom\_tocentry:



### Data Fields

- u\_char [cdte\\_track](#)
- u\_char [cdte\\_adr:4](#)
- u\_char [cdte\\_ctrl:4](#)
- u\_char [cdte\\_format](#)
- [linux\\_cdrom\\_addr](#) [cdte\\_addr](#)
- u\_char [cdte\\_datamode](#)

### 6.46.1 Detailed Description

Definition at line 1031 of file linux\_ioctl.c.

### 6.46.2 Field Documentation

#### 6.46.2.1 union [linux\\_cdrom\\_addr](#) [linux\\_cdrom\\_tocentry::cdte\\_addr](#)

Definition at line 1037 of file linux\_ioctl.c.

#### 6.46.2.2 u\_char [linux\\_cdrom\\_tocentry::cdte\\_adr](#)

Definition at line 1034 of file linux\_ioctl.c.

#### 6.46.2.3 u\_char [linux\\_cdrom\\_tocentry::cdte\\_ctrl](#)

Definition at line 1035 of file linux\_ioctl.c.

#### 6.46.2.4 u\_char [linux\\_cdrom\\_tocentry::cdte\\_datamode](#)

Definition at line 1038 of file linux\_ioctl.c.

#### 6.46.2.5 u\_char [linux\\_cdrom\\_tocentry::cdte\\_format](#)

Definition at line 1036 of file linux\_ioctl.c.

#### 6.46.2.6 u\_char [linux\\_cdrom\\_tocentry::cdte\\_track](#)

Definition at line 1033 of file [linux\\_ioctl.c](#).

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_ioctl.c](#)

## 6.47 linux\_cdrom\_tochdr Struct Reference

### Data Fields

- u\_char [cdth\\_trk0](#)
- u\_char [cdth\\_trk1](#)

### 6.47.1 Detailed Description

Definition at line 1015 of file linux\_ioctl.c.

### 6.47.2 Field Documentation

#### 6.47.2.1 u\_char [linux\\_cdrom\\_tochdr::cdth\\_trk0](#)

Definition at line 1017 of file linux\_ioctl.c.

Referenced by [linux\\_ioctl\\_cdrom\(\)](#).

#### 6.47.2.2 u\_char [linux\\_cdrom\\_tochdr::cdth\\_trk1](#)

Definition at line 1018 of file linux\_ioctl.c.

Referenced by [linux\\_ioctl\\_cdrom\(\)](#).

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_ioctl.c](#)

## 6.48 linux\_connect\_args Struct Reference

### Data Fields

- int [s](#)
- [l\\_uintptr\\_t](#) [name](#)
- int [namelen](#)

#### 6.48.1 Detailed Description

Definition at line 634 of file [linux\\_socket.c](#).

#### 6.48.2 Field Documentation

##### 6.48.2.1 [l\\_uintptr\\_t](#) [linux\\_connect\\_args::name](#)

Definition at line 636 of file [linux\\_socket.c](#).

##### 6.48.2.2 [int](#) [linux\\_connect\\_args::namelen](#)

Definition at line 637 of file [linux\\_socket.c](#).

##### 6.48.2.3 [int](#) [linux\\_connect\\_args::s](#)

Definition at line 635 of file [linux\\_socket.c](#).

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_socket.c](#)



## 6.49 linux\_device\_handler Struct Reference

```
#include <linux_util.h>
```

### Data Fields

- char \* [bsd\\_driver\\_name](#)
- char \* [linux\\_driver\\_name](#)
- char \* [bsd\\_device\\_name](#)
- char \* [linux\\_device\\_name](#)
- int [linux\\_major](#)
- int [linux\\_minor](#)
- int [linux\\_char\\_device](#)

#### 6.49.1 Detailed Description

Definition at line 87 of file linux\_util.h.

#### 6.49.2 Field Documentation

##### 6.49.2.1 char\* [linux\\_device\\_handler::bsd\\_device\\_name](#)

Definition at line 90 of file linux\_util.h.

##### 6.49.2.2 char\* [linux\\_device\\_handler::bsd\\_driver\\_name](#)

Definition at line 88 of file linux\_util.h.

##### 6.49.2.3 int [linux\\_device\\_handler::linux\\_char\\_device](#)

Definition at line 94 of file linux\_util.h.

##### 6.49.2.4 char\* [linux\\_device\\_handler::linux\\_device\\_name](#)

Definition at line 91 of file linux\_util.h.

##### 6.49.2.5 char\* [linux\\_device\\_handler::linux\\_driver\\_name](#)

Definition at line 89 of file linux\_util.h.

##### 6.49.2.6 int [linux\\_device\\_handler::linux\\_major](#)

Definition at line 92 of file linux\_util.h.

Referenced by [linux\\_device\\_register\\_handler\(\)](#).

**6.49.2.7** int [linux\\_device\\_handler::linux\\_minor](#)

Definition at line 93 of file [linux\\_util.h](#).

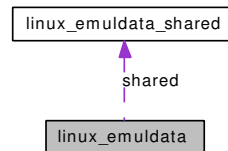
The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_util.h](#)

## 6.50 linux\_emuldata Struct Reference

```
#include <linux_emul.h>
```

Collaboration diagram for linux\_emuldata:



### Public Member Functions

- [LIST\\_ENTRY \(linux\\_emuldata\)](#) threads

### Data Fields

- [pid\\_t pid](#)
- [int \\* child\\_set\\_tid](#)
- [int \\* child\\_clear\\_tid](#)
- [linux\\_emuldata\\_shared \\* shared](#)
- [int pdeath\\_signal](#)

### 6.50.1 Detailed Description

Definition at line 45 of file linux\_emul.h.

### 6.50.2 Member Function Documentation

#### 6.50.2.1 [linux\\_emuldata::LIST\\_ENTRY \(linux\\_emuldata\)](#)

### 6.50.3 Field Documentation

#### 6.50.3.1 [int\\* linux\\_emuldata::child\\_clear\\_tid](#)

Definition at line 49 of file linux\_emul.h.

Referenced by [linux\\_proc\\_exit\(\)](#), [linux\\_proc\\_init\(\)](#), and [linux\\_set\\_tid\\_address\(\)](#).

#### 6.50.3.2 [int\\* linux\\_emuldata::child\\_set\\_tid](#)

Definition at line 48 of file linux\_emul.h.

Referenced by [linux\\_proc\\_init\(\)](#), and [linux\\_schedtail\(\)](#).

**6.50.3.3 int [linux\\_emuldata::pdeath\\_signal](#)**

Definition at line 53 of file [linux\\_emul.h](#).

Referenced by [linux\\_prectl\(\)](#), and [linux\\_proc\\_exit\(\)](#).

**6.50.3.4 pid\_t [linux\\_emuldata::pid](#)**

Definition at line 46 of file [linux\\_emul.h](#).

Referenced by [linux\\_exit\\_group\(\)](#).

**6.50.3.5 struct [linux\\_emuldata\\_shared](#)\* [linux\\_emuldata::shared](#)**

Definition at line 51 of file [linux\\_emul.h](#).

Referenced by [linux\\_exit\\_group\(\)](#), [linux\\_getpid\(\)](#), [linux\\_getppid\(\)](#), [linux\\_proc\\_exec\(\)](#), [linux\\_proc\\_exit\(\)](#), [linux\\_proc\\_init\(\)](#), and [linux\\_tgkill\(\)](#).

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_emul.h](#)

## 6.51 linux\_emuldata\_shared Struct Reference

```
#include <linux_emul.h>
```

### Public Member Functions

- [LIST\\_HEAD](#) ([linux\\_emuldata](#)) threads

### Data Fields

- int [refs](#)
- pid\_t [group\\_pid](#)

#### 6.51.1 Detailed Description

Definition at line 34 of file linux\_emul.h.

#### 6.51.2 Member Function Documentation

**6.51.2.1** [linux\\_emuldata\\_shared::LIST\\_HEAD](#) ([linux\\_emuldata](#))

#### 6.51.3 Field Documentation

**6.51.3.1** pid\_t [linux\\_emuldata\\_shared::group\\_pid](#)

Definition at line 36 of file linux\_emul.h.

Referenced by [linux\\_getpid\(\)](#), [linux\\_getppid\(\)](#), [linux\\_proc\\_exit\(\)](#), and [linux\\_tgkill\(\)](#).

**6.51.3.2** int [linux\\_emuldata\\_shared::refs](#)

Definition at line 35 of file linux\_emul.h.

Referenced by [linux\\_proc\\_exec\(\)](#), [linux\\_proc\\_exit\(\)](#), and [linux\\_proc\\_init\(\)](#).

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_emul.h](#)

## 6.52 linux\_getpeername\_args Struct Reference

### Data Fields

- int [s](#)
- l\_uintptr\_t [addr](#)
- l\_uintptr\_t [namelen](#)

#### 6.52.1 Detailed Description

Definition at line 797 of file linux\_socket.c.

#### 6.52.2 Field Documentation

##### 6.52.2.1 l\_uintptr\_t linux\_getpeername\_args::addr

Definition at line 799 of file linux\_socket.c.

##### 6.52.2.2 l\_uintptr\_t linux\_getpeername\_args::namelen

Definition at line 800 of file linux\_socket.c.

##### 6.52.2.3 int linux\_getpeername\_args::s

Definition at line 798 of file linux\_socket.c.

Referenced by linux\_getpeername().

The documentation for this struct was generated from the following file:

- /usr/src/sys/compat/linux/linux\_socket.c

## 6.53 linux\_getsockname\_args Struct Reference

### Data Fields

- int [s](#)
- l\_uintptr\_t [addr](#)
- l\_uintptr\_t [namelen](#)

#### 6.53.1 Detailed Description

Definition at line 763 of file linux\_socket.c.

#### 6.53.2 Field Documentation

##### 6.53.2.1 l\_uintptr\_t [linux\\_getsockname\\_args::addr](#)

Definition at line 765 of file linux\_socket.c.

##### 6.53.2.2 l\_uintptr\_t [linux\\_getsockname\\_args::namelen](#)

Definition at line 766 of file linux\_socket.c.

##### 6.53.2.3 int [linux\\_getsockname\\_args::s](#)

Definition at line 764 of file linux\_socket.c.

Referenced by [linux\\_getsockname\(\)](#).

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_socket.c](#)

## 6.54 linux\_getsockopt\_args Struct Reference

### Data Fields

- int [s](#)
- int [level](#)
- int [optname](#)
- [l\\_uintptr\\_t](#) [optval](#)
- [l\\_uintptr\\_t](#) [optlen](#)

### 6.54.1 Detailed Description

Definition at line 1178 of file [linux\\_socket.c](#).

### 6.54.2 Field Documentation

#### 6.54.2.1 int [linux\\_getsockopt\\_args::level](#)

Definition at line 1180 of file [linux\\_socket.c](#).

#### 6.54.2.2 [l\\_uintptr\\_t](#) [linux\\_getsockopt\\_args::optlen](#)

Definition at line 1183 of file [linux\\_socket.c](#).

#### 6.54.2.3 int [linux\\_getsockopt\\_args::optname](#)

Definition at line 1181 of file [linux\\_socket.c](#).

#### 6.54.2.4 [l\\_uintptr\\_t](#) [linux\\_getsockopt\\_args::optval](#)

Definition at line 1182 of file [linux\\_socket.c](#).

#### 6.54.2.5 int [linux\\_getsockopt\\_args::s](#)

Definition at line 1179 of file [linux\\_socket.c](#).

Referenced by [linux\\_getsockopt\(\)](#).

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_socket.c](#)



## 6.55 linux\_hd\_big\_geometry Struct Reference

### Data Fields

- [u\\_int8\\_t heads](#)
- [u\\_int8\\_t sectors](#)
- [u\\_int32\\_t cylinders](#)
- [u\\_int32\\_t start](#)

### 6.55.1 Detailed Description

Definition at line 146 of file linux\_ioctl.c.

### 6.55.2 Field Documentation

#### 6.55.2.1 [u\\_int32\\_t linux\\_hd\\_big\\_geometry::cylinders](#)

Definition at line 149 of file linux\_ioctl.c.

Referenced by [linux\\_ioctl\\_hdio\(\)](#).

#### 6.55.2.2 [u\\_int8\\_t linux\\_hd\\_big\\_geometry::heads](#)

Definition at line 147 of file linux\_ioctl.c.

Referenced by [linux\\_ioctl\\_hdio\(\)](#).

#### 6.55.2.3 [u\\_int8\\_t linux\\_hd\\_big\\_geometry::sectors](#)

Definition at line 148 of file linux\_ioctl.c.

Referenced by [linux\\_ioctl\\_hdio\(\)](#).

#### 6.55.2.4 [u\\_int32\\_t linux\\_hd\\_big\\_geometry::start](#)

Definition at line 150 of file linux\_ioctl.c.

Referenced by [linux\\_ioctl\\_hdio\(\)](#).

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_ioctl.c](#)

## 6.56 linux\_io\_event Struct Reference

```
#include <linux_aio.h>
```

### Data Fields

- [uint64\\_t data](#)
- [uint64\\_t obj](#)
- [int64\\_t res](#)
- [int64\\_t res2](#)

### 6.56.1 Detailed Description

Definition at line 49 of file linux\_aio.h.

### 6.56.2 Field Documentation

#### 6.56.2.1 uint64\_t linux\_io\_event::data

Definition at line 50 of file linux\_aio.h.

Referenced by linux\_io\_cancel(), and linux\_io\_getevents().

#### 6.56.2.2 uint64\_t linux\_io\_event::obj

Definition at line 51 of file linux\_aio.h.

Referenced by linux\_io\_cancel(), and linux\_io\_getevents().

#### 6.56.2.3 int64\_t linux\_io\_event::res

Definition at line 52 of file linux\_aio.h.

Referenced by linux\_io\_cancel(), and linux\_io\_getevents().

#### 6.56.2.4 int64\_t linux\_io\_event::res2

Definition at line 53 of file linux\_aio.h.

Referenced by linux\_io\_cancel(), and linux\_io\_getevents().

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_aio.h](#)

## 6.57 linux\_iocb Struct Reference

```
#include <linux_aio.h>
```

### Public Member Functions

- `uint32_t LINUX_AIO_PADDED` (`aio_key`, `aio_reserved1`)

### Data Fields

- `uint64_t aio_data`
- `uint16_t aio_lio_opcode`
- `int16_t aio_reqprio`
- `uint32_t aio_fildes`
- `uint64_t aio_buf`
- `uint64_t aio_nbytes`
- `int64_t aio_offset`
- `uint64_t aio_reserved2`
- `uint64_t aio_reserved3`

### 6.57.1 Detailed Description

Definition at line 64 of file `linux_aio.h`.

### 6.57.2 Member Function Documentation

**6.57.2.1** `uint32_t linux_iocb::LINUX_AIO_PADDED` (`aio_key`, `aio_reserved1`)

### 6.57.3 Field Documentation

**6.57.3.1** `uint64_t linux_iocb::aio_buf`

Definition at line 72 of file `linux_aio.h`.

Referenced by `iocb_reformat()`.

**6.57.3.2** `uint64_t linux_iocb::aio_data`

Definition at line 65 of file `linux_aio.h`.

Referenced by `linux_io_cancel()`, and `linux_io_getevents()`.

**6.57.3.3** `uint32_t linux_iocb::aio_fildes`

Definition at line 70 of file `linux_aio.h`.

Referenced by `iocb_reformat()`, `linux_io_cancel()`, `linux_io_destroy()`, and `linux_io_submit()`.

**6.57.3.4 uint16\_t linux\_iocb::aio\_lio\_opcode**

Definition at line 68 of file linux\_aio.h.

Referenced by iocb\_reformat(), and linux\_io\_submit().

**6.57.3.5 uint64\_t linux\_iocb::aio\_nbytes**

Definition at line 73 of file linux\_aio.h.

Referenced by iocb\_reformat().

**6.57.3.6 int64\_t linux\_iocb::aio\_offset**

Definition at line 74 of file linux\_aio.h.

Referenced by iocb\_reformat().

**6.57.3.7 int16\_t linux\_iocb::aio\_reqprio**

Definition at line 69 of file linux\_aio.h.

Referenced by iocb\_reformat().

**6.57.3.8 uint64\_t linux\_iocb::aio\_reserved2**

Definition at line 76 of file linux\_aio.h.

**6.57.3.9 uint64\_t linux\_iocb::aio\_reserved3**

Definition at line 77 of file linux\_aio.h.

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_aio.h](#)

## 6.58 linux\_listen\_args Struct Reference

### Data Fields

- int [s](#)
- int [backlog](#)

### 6.58.1 Detailed Description

Definition at line 690 of file [linux\\_socket.c](#).

### 6.58.2 Field Documentation

#### 6.58.2.1 int [linux\\_listen\\_args::backlog](#)

Definition at line 692 of file [linux\\_socket.c](#).

#### 6.58.2.2 int [linux\\_listen\\_args::s](#)

Definition at line 691 of file [linux\\_socket.c](#).

Referenced by [linux\\_listen\(\)](#).

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_socket.c](#)

## 6.59 linux\_mixer\_info Struct Reference

### Data Fields

- char [id](#) [16]
- char [name](#) [32]
- int [modify\\_counter](#)
- int [fillers](#) [10]

### 6.59.1 Detailed Description

Definition at line 1610 of file `linux_ioctl.c`.

### 6.59.2 Field Documentation

#### 6.59.2.1 int [linux\\_mixer\\_info::fillers](#)[10]

Definition at line 1614 of file `linux_ioctl.c`.

#### 6.59.2.2 char [linux\\_mixer\\_info::id](#)[16]

Definition at line 1611 of file `linux_ioctl.c`.

#### 6.59.2.3 int [linux\\_mixer\\_info::modify\\_counter](#)

Definition at line 1613 of file `linux_ioctl.c`.

#### 6.59.2.4 char [linux\\_mixer\\_info::name](#)[32]

Definition at line 1612 of file `linux_ioctl.c`.

The documentation for this struct was generated from the following file:

- `/usr/src/sys/compat/linux/linux_ioctl.c`

## 6.60 linux\_old\_mixer\_info Struct Reference

### Data Fields

- char [id](#) [16]
- char [name](#) [32]

### 6.60.1 Detailed Description

Definition at line 1617 of file linux\_ioctl.c.

### 6.60.2 Field Documentation

#### 6.60.2.1 char [linux\\_old\\_mixer\\_info::id](#)[16]

Definition at line 1618 of file linux\_ioctl.c.

#### 6.60.2.2 char [linux\\_old\\_mixer\\_info::name](#)[32]

Definition at line 1619 of file linux\_ioctl.c.

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_ioctl.c](#)

## 6.61 linux\_prison Struct Reference

### Data Fields

- char [pr\\_osname](#) [LINUX\_MAX\_UTSNAME]
- char [pr\\_osrelease](#) [LINUX\_MAX\_UTSNAME]
- int [pr\\_oss\\_version](#)
- int [pr\\_use\\_linux26](#)

### 6.61.1 Detailed Description

Definition at line 51 of file linux\_mib.c.

### 6.61.2 Field Documentation

#### 6.61.2.1 char [linux\\_prison::pr\\_osname](#)[LINUX\_MAX\_UTSNAME]

Definition at line 52 of file linux\_mib.c.

Referenced by [linux\\_get\\_osname\(\)](#), and [linux\\_set\\_osname\(\)](#).

#### 6.61.2.2 char [linux\\_prison::pr\\_osrelease](#)[LINUX\_MAX\_UTSNAME]

Definition at line 53 of file linux\_mib.c.

Referenced by [linux\\_get\\_osrelease\(\)](#), and [linux\\_set\\_osrelease\(\)](#).

#### 6.61.2.3 int [linux\\_prison::pr\\_oss\\_version](#)

Definition at line 54 of file linux\_mib.c.

Referenced by [linux\\_get\\_oss\\_version\(\)](#), and [linux\\_set\\_oss\\_version\(\)](#).

#### 6.61.2.4 int [linux\\_prison::pr\\_use\\_linux26](#)

Definition at line 55 of file linux\_mib.c.

Referenced by [linux\\_set\\_osrelease\(\)](#), and [linux\\_use26\(\)](#).

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_mib.c](#)



## 6.62 linux\_recv\_args Struct Reference

### Data Fields

- int [s](#)
- [l\\_uintptr\\_t](#) [msg](#)
- int [len](#)
- int [flags](#)

### 6.62.1 Detailed Description

Definition at line 895 of file [linux\\_socket.c](#).

### 6.62.2 Field Documentation

#### 6.62.2.1 int [linux\\_recv\\_args::flags](#)

Definition at line 899 of file [linux\\_socket.c](#).

#### 6.62.2.2 int [linux\\_recv\\_args::len](#)

Definition at line 898 of file [linux\\_socket.c](#).

#### 6.62.2.3 [l\\_uintptr\\_t](#) [linux\\_recv\\_args::msg](#)

Definition at line 897 of file [linux\\_socket.c](#).

#### 6.62.2.4 int [linux\\_recv\\_args::s](#)

Definition at line 896 of file [linux\\_socket.c](#).

Referenced by [linux\\_recv\(\)](#).

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_socket.c](#)

## 6.63 linux\_recvfrom\_args Struct Reference

### Data Fields

- int [s](#)
- l\_uintptr\_t [buf](#)
- int [len](#)
- int [flags](#)
- l\_uintptr\_t [from](#)
- l\_uintptr\_t [fromlen](#)

### 6.63.1 Detailed Description

Definition at line 956 of file linux\_socket.c.

### 6.63.2 Field Documentation

#### 6.63.2.1 l\_uintptr\_t linux\_recvfrom\_args::buf

Definition at line 958 of file linux\_socket.c.

#### 6.63.2.2 int linux\_recvfrom\_args::flags

Definition at line 960 of file linux\_socket.c.

#### 6.63.2.3 l\_uintptr\_t linux\_recvfrom\_args::from

Definition at line 961 of file linux\_socket.c.

#### 6.63.2.4 l\_uintptr\_t linux\_recvfrom\_args::fromlen

Definition at line 962 of file linux\_socket.c.

#### 6.63.2.5 int linux\_recvfrom\_args::len

Definition at line 959 of file linux\_socket.c.

#### 6.63.2.6 int linux\_recvfrom\_args::s

Definition at line 957 of file linux\_socket.c.

Referenced by linux\_recvfrom().

The documentation for this struct was generated from the following file:

- /usr/src/sys/compat/linux/linux\_socket.c

## 6.64 linux\_recvmsg\_args Struct Reference

### Data Fields

- int [s](#)
- l\_uintptr\_t [msg](#)
- int [flags](#)

#### 6.64.1 Detailed Description

Definition at line 1042 of file linux\_socket.c.

#### 6.64.2 Field Documentation

##### 6.64.2.1 int [linux\\_recvmsg\\_args::flags](#)

Definition at line 1045 of file linux\_socket.c.

##### 6.64.2.2 l\_uintptr\_t [linux\\_recvmsg\\_args::msg](#)

Definition at line 1044 of file linux\_socket.c.

Referenced by [linux\\_recvmsg\(\)](#).

##### 6.64.2.3 int [linux\\_recvmsg\\_args::s](#)

Definition at line 1043 of file linux\_socket.c.

Referenced by [linux\\_recvmsg\(\)](#).

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_socket.c](#)

## 6.65 linux\_send\_args Struct Reference

### Data Fields

- int [s](#)
- [l\\_uintptr\\_t](#) [msg](#)
- int [len](#)
- int [flags](#)

### 6.65.1 Detailed Description

Definition at line 862 of file [linux\\_socket.c](#).

### 6.65.2 Field Documentation

#### 6.65.2.1 int [linux\\_send\\_args::flags](#)

Definition at line 866 of file [linux\\_socket.c](#).

#### 6.65.2.2 int [linux\\_send\\_args::len](#)

Definition at line 865 of file [linux\\_socket.c](#).

#### 6.65.2.3 [l\\_uintptr\\_t](#) [linux\\_send\\_args::msg](#)

Definition at line 864 of file [linux\\_socket.c](#).

#### 6.65.2.4 int [linux\\_send\\_args::s](#)

Definition at line 863 of file [linux\\_socket.c](#).

Referenced by [linux\\_send\(\)](#).

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_socket.c](#)

## 6.66 linux\_sendmsg\_args Struct Reference

### Data Fields

- int [s](#)
- [l\\_uintptr\\_t](#) [msg](#)
- int [flags](#)

### 6.66.1 Detailed Description

Definition at line 1009 of file linux\_socket.c.

### 6.66.2 Field Documentation

#### 6.66.2.1 int [linux\\_sendmsg\\_args::flags](#)

Definition at line 1012 of file linux\_socket.c.

#### 6.66.2.2 [l\\_uintptr\\_t](#) [linux\\_sendmsg\\_args::msg](#)

Definition at line 1011 of file linux\_socket.c.

#### 6.66.2.3 int [linux\\_sendmsg\\_args::s](#)

Definition at line 1010 of file linux\_socket.c.

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_socket.c](#)

## 6.67 linux\_sendto\_args Struct Reference

### Data Fields

- int [s](#)
- l\_uintptr\_t [msg](#)
- int [len](#)
- int [flags](#)
- l\_uintptr\_t [to](#)
- int [tolen](#)

### 6.67.1 Detailed Description

Definition at line 479 of file linux\_socket.c.

### 6.67.2 Field Documentation

#### 6.67.2.1 int [linux\\_sendto\\_args::flags](#)

Definition at line 483 of file linux\_socket.c.

Referenced by linux\_sendto\_hdrincl().

#### 6.67.2.2 int [linux\\_sendto\\_args::len](#)

Definition at line 482 of file linux\_socket.c.

Referenced by linux\_sendto\_hdrincl().

#### 6.67.2.3 l\_uintptr\_t [linux\\_sendto\\_args::msg](#)

Definition at line 481 of file linux\_socket.c.

Referenced by linux\_sendto\_hdrincl().

#### 6.67.2.4 int [linux\\_sendto\\_args::s](#)

Definition at line 480 of file linux\_socket.c.

Referenced by linux\_sendto\_hdrincl().

#### 6.67.2.5 l\_uintptr\_t [linux\\_sendto\\_args::to](#)

Definition at line 484 of file linux\_socket.c.

Referenced by linux\_sendto\_hdrincl().

**6.67.2.6 int [linux\\_sendto\\_args::tolen](#)**

Definition at line 485 of file [linux\\_socket.c](#).

Referenced by [linux\\_sendto\\_hdrincl\(\)](#).

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_socket.c](#)

## 6.68 linux\_serial\_struct Struct Reference

### Data Fields

- int [type](#)
- int [line](#)
- int [port](#)
- int [irq](#)
- int [flags](#)
- int [xmit\\_fifo\\_size](#)
- int [custom\\_divisor](#)
- int [baud\\_base](#)
- unsigned short [close\\_delay](#)
- char [reserved\\_char](#) [2]
- int [hub6](#)
- unsigned short [closing\\_wait](#)
- unsigned short [closing\\_wait2](#)
- int [reserved](#) [4]

### 6.68.1 Detailed Description

Definition at line 306 of file linux\_ioctl.c.

### 6.68.2 Field Documentation

#### 6.68.2.1 int [linux\\_serial\\_struct::baud\\_base](#)

Definition at line 314 of file linux\_ioctl.c.

#### 6.68.2.2 unsigned short [linux\\_serial\\_struct::close\\_delay](#)

Definition at line 315 of file linux\_ioctl.c.

Referenced by [linux\\_ioctl\\_termio\(\)](#).

#### 6.68.2.3 unsigned short [linux\\_serial\\_struct::closing\\_wait](#)

Definition at line 318 of file linux\_ioctl.c.

#### 6.68.2.4 unsigned short [linux\\_serial\\_struct::closing\\_wait2](#)

Definition at line 319 of file linux\_ioctl.c.

#### 6.68.2.5 int [linux\\_serial\\_struct::custom\\_divisor](#)

Definition at line 313 of file linux\_ioctl.c.



**6.68.2.6 int linux\_serial\_struct::flags**

Definition at line 311 of file linux\_ioctl.c.

Referenced by linux\_ioctl\_termio().

**6.68.2.7 int linux\_serial\_struct::hub6**

Definition at line 317 of file linux\_ioctl.c.

**6.68.2.8 int linux\_serial\_struct::irq**

Definition at line 310 of file linux\_ioctl.c.

**6.68.2.9 int linux\_serial\_struct::line**

Definition at line 308 of file linux\_ioctl.c.

Referenced by linux\_ioctl\_termio().

**6.68.2.10 int linux\_serial\_struct::port**

Definition at line 309 of file linux\_ioctl.c.

**6.68.2.11 int linux\_serial\_struct::reserved[4]**

Definition at line 320 of file linux\_ioctl.c.

**6.68.2.12 char linux\_serial\_struct::reserved\_char[2]**

Definition at line 316 of file linux\_ioctl.c.

**6.68.2.13 int linux\_serial\_struct::type**

Definition at line 307 of file linux\_ioctl.c.

Referenced by linux\_ioctl\_termio().

**6.68.2.14 int linux\_serial\_struct::xmit\_fifo\_size**

Definition at line 312 of file linux\_ioctl.c.

The documentation for this struct was generated from the following file:

- /usr/src/sys/compat/linux/linux\_ioctl.c

## 6.69 linux\_setsockopt\_args Struct Reference

### Data Fields

- int [s](#)
- int [level](#)
- int [optname](#)
- [l\\_uintptr\\_t](#) [optval](#)
- int [optlen](#)

### 6.69.1 Detailed Description

Definition at line 1119 of file [linux\\_socket.c](#).

### 6.69.2 Field Documentation

#### 6.69.2.1 int [linux\\_setsockopt\\_args::level](#)

Definition at line 1121 of file [linux\\_socket.c](#).

#### 6.69.2.2 int [linux\\_setsockopt\\_args::optlen](#)

Definition at line 1124 of file [linux\\_socket.c](#).

#### 6.69.2.3 int [linux\\_setsockopt\\_args::optname](#)

Definition at line 1122 of file [linux\\_socket.c](#).

#### 6.69.2.4 [l\\_uintptr\\_t](#) [linux\\_setsockopt\\_args::optval](#)

Definition at line 1123 of file [linux\\_socket.c](#).

#### 6.69.2.5 int [linux\\_setsockopt\\_args::s](#)

Definition at line 1120 of file [linux\\_socket.c](#).

Referenced by [linux\\_setsockopt\(\)](#).

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_socket.c](#)

## 6.70 linux\_shutdown\_args Struct Reference

### Data Fields

- int [s](#)
- int [how](#)

### 6.70.1 Detailed Description

Definition at line 1096 of file linux\_socket.c.

### 6.70.2 Field Documentation

#### 6.70.2.1 int [linux\\_shutdown\\_args::how](#)

Definition at line 1098 of file linux\_socket.c.

#### 6.70.2.2 int [linux\\_shutdown\\_args::s](#)

Definition at line 1097 of file linux\_socket.c.

Referenced by [linux\\_shutdown\(\)](#).

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_socket.c](#)

## 6.71 linux\_socket\_args Struct Reference

### Data Fields

- int [domain](#)
- int [type](#)
- int [protocol](#)

#### 6.71.1 Detailed Description

Definition at line 539 of file linux\_socket.c.

#### 6.71.2 Field Documentation

##### 6.71.2.1 int [linux\\_socket\\_args::domain](#)

Definition at line 540 of file linux\_socket.c.

##### 6.71.2.2 int [linux\\_socket\\_args::protocol](#)

Definition at line 542 of file linux\_socket.c.

Referenced by [linux\\_socket\(\)](#).

##### 6.71.2.3 int [linux\\_socket\\_args::type](#)

Definition at line 541 of file linux\_socket.c.

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_socket.c](#)

## 6.72 linux\_socketpair\_args Struct Reference

### Data Fields

- int [domain](#)
- int [type](#)
- int [protocol](#)
- l\_uintptr\_t [rsv](#)

### 6.72.1 Detailed Description

Definition at line 830 of file linux\_socket.c.

### 6.72.2 Field Documentation

#### 6.72.2.1 int [linux\\_socketpair\\_args::domain](#)

Definition at line 831 of file linux\_socket.c.

Referenced by linux\_socketpair().

#### 6.72.2.2 int [linux\\_socketpair\\_args::protocol](#)

Definition at line 833 of file linux\_socket.c.

#### 6.72.2.3 l\_uintptr\_t [linux\\_socketpair\\_args::rsv](#)

Definition at line 834 of file linux\_socket.c.

#### 6.72.2.4 int [linux\\_socketpair\\_args::type](#)

Definition at line 832 of file linux\_socket.c.

The documentation for this struct was generated from the following file:

- /usr/src/sys/compat/linux/linux\_socket.c

## 6.73 linux\_termio Struct Reference

### Data Fields

- unsigned short [c\\_iflag](#)
- unsigned short [c\\_oflag](#)
- unsigned short [c\\_cflag](#)
- unsigned short [c\\_lflag](#)
- unsigned char [c\\_line](#)
- unsigned char [c\\_cc](#) [LINUX\_NCC]

### 6.73.1 Detailed Description

Definition at line 270 of file linux\_ioctl.c.

### 6.73.2 Field Documentation

#### 6.73.2.1 unsigned char [linux\\_termio::c\\_cc](#)[LINUX\_NCC]

Definition at line 276 of file linux\_ioctl.c.

Referenced by [bsd\\_to\\_linux\\_termio\(\)](#), and [linux\\_to\\_bsd\\_termio\(\)](#).

#### 6.73.2.2 unsigned short [linux\\_termio::c\\_cflag](#)

Definition at line 273 of file linux\_ioctl.c.

Referenced by [bsd\\_to\\_linux\\_termio\(\)](#), and [linux\\_to\\_bsd\\_termio\(\)](#).

#### 6.73.2.3 unsigned short [linux\\_termio::c\\_iflag](#)

Definition at line 271 of file linux\_ioctl.c.

Referenced by [bsd\\_to\\_linux\\_termio\(\)](#), and [linux\\_to\\_bsd\\_termio\(\)](#).

#### 6.73.2.4 unsigned short [linux\\_termio::c\\_lflag](#)

Definition at line 274 of file linux\_ioctl.c.

Referenced by [bsd\\_to\\_linux\\_termio\(\)](#), and [linux\\_to\\_bsd\\_termio\(\)](#).

#### 6.73.2.5 unsigned char [linux\\_termio::c\\_line](#)

Definition at line 275 of file linux\_ioctl.c.

Referenced by [bsd\\_to\\_linux\\_termio\(\)](#).

**6.73.2.6 unsigned short [linux\\_termio::c\\_oflag](#)**

Definition at line 272 of file [linux\\_ioctl.c](#).

Referenced by [bsd\\_to\\_linux\\_termio\(\)](#), and [linux\\_to\\_bsd\\_termio\(\)](#).

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_ioctl.c](#)

## 6.74 linux\_termios Struct Reference

### Data Fields

- unsigned int [c\\_iflag](#)
- unsigned int [c\\_oflag](#)
- unsigned int [c\\_cflag](#)
- unsigned int [c\\_lflag](#)
- unsigned char [c\\_line](#)
- unsigned char [c\\_cc](#) [LINUX\_NCCS]

### 6.74.1 Detailed Description

Definition at line 279 of file linux\_ioctl.c.

### 6.74.2 Field Documentation

#### 6.74.2.1 unsigned char [linux\\_termios::c\\_cc](#)[LINUX\_NCCS]

Definition at line 285 of file linux\_ioctl.c.

Referenced by [bsd\\_to\\_linux\\_termio\(\)](#), [bsd\\_to\\_linux\\_termios\(\)](#), [linux\\_to\\_bsd\\_termio\(\)](#), and [linux\\_to\\_bsd\\_termios\(\)](#).

#### 6.74.2.2 unsigned int [linux\\_termios::c\\_cflag](#)

Definition at line 282 of file linux\_ioctl.c.

Referenced by [bsd\\_to\\_linux\\_termio\(\)](#), [bsd\\_to\\_linux\\_termios\(\)](#), [linux\\_to\\_bsd\\_termio\(\)](#), and [linux\\_to\\_bsd\\_termios\(\)](#).

#### 6.74.2.3 unsigned int [linux\\_termios::c\\_iflag](#)

Definition at line 280 of file linux\_ioctl.c.

Referenced by [bsd\\_to\\_linux\\_termio\(\)](#), [bsd\\_to\\_linux\\_termios\(\)](#), [linux\\_to\\_bsd\\_termio\(\)](#), and [linux\\_to\\_bsd\\_termios\(\)](#).

#### 6.74.2.4 unsigned int [linux\\_termios::c\\_lflag](#)

Definition at line 283 of file linux\_ioctl.c.

Referenced by [bsd\\_to\\_linux\\_termio\(\)](#), [bsd\\_to\\_linux\\_termios\(\)](#), [linux\\_to\\_bsd\\_termio\(\)](#), and [linux\\_to\\_bsd\\_termios\(\)](#).

#### 6.74.2.5 unsigned char [linux\\_termios::c\\_line](#)

Definition at line 284 of file linux\_ioctl.c.

Referenced by [bsd\\_to\\_linux\\_termio\(\)](#), [bsd\\_to\\_linux\\_termios\(\)](#), and [linux\\_to\\_bsd\\_termios\(\)](#).



### 6.74.2.6 unsigned int `linux_termios::c_oflag`

Definition at line 281 of file `linux_ioctl.c`.

Referenced by `bsd_to_linux_termio()`, `bsd_to_linux_termios()`, `linux_to_bsd_termio()`, and `linux_to_bsd_termios()`.

The documentation for this struct was generated from the following file:

- `/usr/src/sys/compat/linux/linux_ioctl.c`

## 6.75 linux\_winsize Struct Reference

### Data Fields

- unsigned short [ws\\_row](#)
- unsigned short [ws\\_col](#)
- unsigned short [ws\\_xpixel](#)
- unsigned short [ws\\_ypixel](#)

### 6.75.1 Detailed Description

Definition at line 288 of file `linux_ioctl.c`.

### 6.75.2 Field Documentation

#### 6.75.2.1 unsigned short [linux\\_winsize::ws\\_col](#)

Definition at line 289 of file `linux_ioctl.c`.

#### 6.75.2.2 unsigned short [linux\\_winsize::ws\\_row](#)

Definition at line 289 of file `linux_ioctl.c`.

#### 6.75.2.3 unsigned short [linux\\_winsize::ws\\_xpixel](#)

Definition at line 290 of file `linux_ioctl.c`.

#### 6.75.2.4 unsigned short [linux\\_winsize::ws\\_ypixel](#)

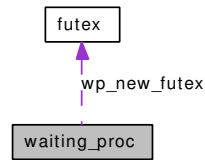
Definition at line 290 of file `linux_ioctl.c`.

The documentation for this struct was generated from the following file:

- `/usr/src/sys/compat/linux/linux_ioctl.c`

## 6.76 waiting\_proc Struct Reference

Collaboration diagram for waiting\_proc:



### Data Fields

- thread \* [wp\\_t](#)
- **futex** \* [wp\\_new\\_futex](#)

#### 6.76.1 Detailed Description

Definition at line 64 of file [linux\\_futex.c](#).

#### 6.76.2 Field Documentation

##### 6.76.2.1 struct **futex**\* [waiting\\_proc::wp\\_new\\_futex](#)

Definition at line 66 of file [linux\\_futex.c](#).

Referenced by [futex\\_wake\(\)](#).

##### 6.76.2.2 struct thread\* [waiting\\_proc::wp\\_t](#)

Definition at line 65 of file [linux\\_futex.c](#).

The documentation for this struct was generated from the following file:

- [/usr/src/sys/compat/linux/linux\\_futex.c](#)



## **Chapter 7**

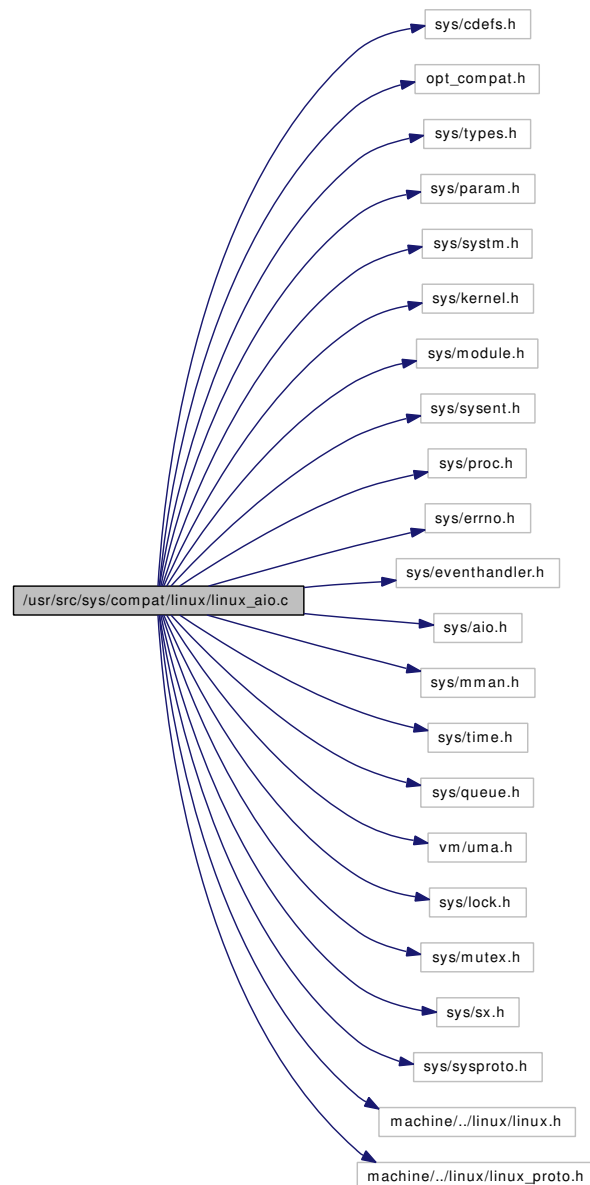
# **FreeBSD kernel i386 linuxolator code File Documentation**

### **7.1 notreviewed.dox File Reference**

## 7.2 /usr/src/sys/compat/linux/linux\_aino.c File Reference

```
#include <sys/cdefs.h>
#include "opt_compat.h"
#include <sys/types.h>
#include <sys/param.h>
#include <sys/system.h>
#include <sys/kernel.h>
#include <sys/module.h>
#include <sys/sysent.h>
#include <sys/proc.h>
#include <sys/errno.h>
#include <sys/eventhandler.h>
#include <sys/aio.h>
#include <sys/mman.h>
#include <sys/time.h>
#include <sys/queue.h>
#include <vm/uma.h>
#include <sys/lock.h>
#include <sys/mutex.h>
#include <sys/sx.h>
#include <sys/sysproto.h>
#include <machine/../linux/linux.h>
#include <machine/../linux/linux_proto.h>
```

Include dependency graph for linux\_aino.c:



## Data Structures

- struct [linux\\_aino\\_request](#)
- struct [linux\\_aino\\_context](#)

## Defines

- #define [LINUX\\_AIO\\_DEBUG](#)
- #define [DARGPRINTF](#)(fmt,)
- #define [DPRINTF](#)(fmt,)
- #define [DPPRINTF](#)(fmt,)
- #define [LINUX\\_AIO\\_REQ\\_HOOK](#)(pctx, preq)

- #define [LINUX\\_AIO\\_REQ\\_UNHOOK](#)(pctx, preq)
- #define [LINUX\\_AIO\\_REQ\\_FOREACH](#)(pctx, preq) STAILQ\_FOREACH((preq), &((pctx) → ctx\_req), req\_ctx\_entry)
- #define [LINUX\\_AIO\\_REQ\\_FOREACH\\_SAFE](#)(pctx, preq, ptmpreq)
- #define [LINUX\\_AIO\\_CTX\\_LOCK](#)(pctx) sx\_xlock(&((pctx) → ctx\_sx))
- #define [LINUX\\_AIO\\_CTX\\_UNLOCK](#)(pctx) sx\_unlock(&((pctx) → ctx\_sx))
- #define [LINUX\\_AIO\\_CTX\\_HOOK](#)(pctx) SLIST\_INSERT\_HEAD(&linux\_ao\_context\_list, (pctx), ctx\_list\_entry)
- #define [LINUX\\_AIO\\_CTX\\_UNHOOK](#)(pctx)
- #define [LINUX\\_AIO\\_CTX\\_FOREACH](#)(pctx) SLIST\_FOREACH((pctx), &linux\_ao\_context\_list, ctx\_list\_entry)
- #define [LINUX\\_AIO\\_CTX\\_FOREACH\\_SAFE](#)(pctx, ptmpctx)
- #define [LINUX\\_AIO\\_CTX\\_MATCH](#)(pctx, ctxid, pid)
- #define [LINUX\\_AIO\\_CTX\\_LIST\\_LOCK](#)() mtx\_lock(&linux\_ao\_context\_list\_mtx)
- #define [LINUX\\_AIO\\_CTX\\_LIST\\_UNLOCK](#)() mtx\_unlock(&linux\_ao\_context\_list\_mtx)
- #define [LINUX\\_AIO\\_LOCK](#)(p)
- #define [LINUX\\_AIO\\_UNLOCK](#)(p)
- #define [PREPARE\\_DUMMY\\_SYSCALL\\_BACKUP](#)(s) static sy\_call\_t \*p\_dummy\_linux\_## s
- #define [SHOW\\_REAL\\_SYSCALL](#)(s)
- #define [RESTORE\\_DUMMY\\_SYSCALL](#)(s)
- #define [DUMP\\_FREEBSD\\_AIOCB](#)(p, isu) linux\_ao\_dump\_freebsd\_aiocb((p), (isu));
- #define [DUMP\\_TIMESPEC](#)(f, t,a)

## Functions

- [\\_\\_FBSDID](#) ("\$FreeBSD: src/linuxaio/linux\_ao.c,v 1.94 2007/01/25 14:39:24 admin Exp \$")
- static [SLIST\\_HEAD](#) ([linux\\_ao\\_context](#))
- static int [user\\_malloc](#) (struct thread \*td, void \*\*pp, size\_t s)
- static int [user\\_free](#) (struct thread \*td, void \*p, size\_t s)
- static void [linux\\_ao\\_dump\\_freebsd\\_aiocb](#) (struct aiocb \*piocb, int isuserland)
- static int [iocb\\_reformat](#) (struct [linux\\_iocb](#) \*plnx, struct aiocb \*pbsd)
- int [linux\\_io\\_setup](#) (struct thread \*td, struct [linux\\_io\\_setup\\_args](#) \*args)
- int [linux\\_io\\_destroy](#) (struct thread \*td, struct [linux\\_io\\_destroy\\_args](#) \*args)
- int [linux\\_io\\_getevents](#) (struct thread \*td, struct [linux\\_io\\_getevents\\_args](#) \*args)
- int [linux\\_io\\_submit](#) (struct thread \*td, struct [linux\\_io\\_submit\\_args](#) \*args)
- int [linux\\_io\\_cancel](#) (struct thread \*td, struct [linux\\_io\\_cancel\\_args](#) \*args)
- static void [linux\\_ao\\_proc\\_rundown](#) (void \*arg, struct proc \*p)
- static int [linux\\_ao\\_modload](#) (struct module \*module, int cmd, void \*arg)
- [DECLARE\\_MODULE](#) (linuxaio, [linux\\_ao\\_mod](#), SI\_SUB\_VFS, SI\_ORDER\_ANY)
- [MODULE\\_DEPEND](#) (linuxaio, aio, 1, 1, 1)
- [MODULE\\_DEPEND](#) (linuxaio, linux, 1, 1, 1)

## Variables

- static moduledata\_t [linux\\_ao\\_mod](#)



## 7.2.1 Define Documentation

### 7.2.1.1 #define DARGPRINTF(fmt)

**Value:**

```
printf("linux(%ld): %s(fmt)\n", \
      (long)td->td_proc->p_pid, __func__, __VA_ARGS__)
```

Definition at line 66 of file linux\_aid.c.

Referenced by linux\_io\_cancel(), linux\_io\_destroy(), linux\_io\_getevents(), linux\_io\_setup(), and linux\_io\_submit().

### 7.2.1.2 #define DPPRINTF(fmt)

**Value:**

```
printf("linux(): %s(): " fmt "\n", \
      __func__, __VA_ARGS__)
```

Definition at line 72 of file linux\_aid.c.

Referenced by iocb\_reformat(), linux\_aid\_dump\_freebsd\_aiocb(), linux\_aid\_proc\_rundown(), user\_free(), and user\_malloc().

### 7.2.1.3 #define DPRINTF(fmt)

**Value:**

```
printf(LMSG("%s(): " fmt), \
      __func__, __VA_ARGS__)
```

Definition at line 69 of file linux\_aid.c.

Referenced by linux\_io\_cancel(), linux\_io\_destroy(), linux\_io\_getevents(), linux\_io\_setup(), and linux\_io\_submit().

### 7.2.1.4 #define DUMP\_FREEBSD\_AIOCB(p, isu) linux\_aid\_dump\_freebsd\_aiocb((p), (isu));

Definition at line 346 of file linux\_aid.c.

Referenced by linux\_io\_submit().

### 7.2.1.5 #define DUMP\_TIMESPEC(f, t, a)

**Value:**

```
DPRINTF("%s%ld second + %ld nanosecond%s", \
      (f), (long)(t)->tv_sec, (long)(t)->tv_nsec, (a));
```

Definition at line 348 of file linux\_aid.c.

Referenced by linux\_io\_getevents().

**7.2.1.6 #define LINUX\_AIO\_CTX\_FOREACH(pctx) SLIST\_FOREACH((pctx), &linux\_aio\_context\_list, ctx\_list\_entry)**

Referenced by linux\_io\_cancel(), linux\_io\_destroy(), linux\_io\_getevents(), linux\_io\_setup(), and linux\_io\_submit().

**7.2.1.7 #define LINUX\_AIO\_CTX\_FOREACH\_SAFE(pctx, ptmpctx)**

**Value:**

```
SLIST_FOREACH_SAFE((pctx), &linux_aio_context_list, \
                    ctx_list_entry, (ptmpctx))
```

Referenced by linux\_aio\_proc\_rundown().

**7.2.1.8 #define LINUX\_AIO\_CTX\_HOOK(pctx) SLIST\_INSERT\_HEAD(&linux\_aio\_context\_list, (pctx), ctx\_list\_entry)**

Referenced by linux\_io\_setup().

**7.2.1.9 #define LINUX\_AIO\_CTX\_LIST\_LOCK() mtx\_lock(&linux\_aio\_context\_list\_mtx)**

Referenced by linux\_aio\_modload(), linux\_aio\_proc\_rundown(), linux\_io\_cancel(), linux\_io\_destroy(), linux\_io\_getevents(), linux\_io\_setup(), and linux\_io\_submit().

**7.2.1.10 #define LINUX\_AIO\_CTX\_LIST\_UNLOCK() mtx\_unlock(&linux\_aio\_context\_list\_mtx)**

Referenced by linux\_aio\_modload(), linux\_aio\_proc\_rundown(), linux\_io\_cancel(), linux\_io\_destroy(), linux\_io\_getevents(), linux\_io\_setup(), and linux\_io\_submit().

**7.2.1.11 #define LINUX\_AIO\_CTX\_LOCK(pctx) sx\_xlock(&((pctx) → ctx\_sx))**

Referenced by linux\_io\_cancel(), linux\_io\_destroy(), linux\_io\_getevents(), and linux\_io\_submit().

**7.2.1.12 #define LINUX\_AIO\_CTX\_MATCH(pctx, ctxid, pid)**

**Value:**

```
((linux_aio_context_t) (pctx) → ctx_pring == (ctxid) \
  && (pctx) → ctx_pid == (pid))
```

Referenced by linux\_io\_cancel(), linux\_io\_destroy(), linux\_io\_getevents(), and linux\_io\_submit().

**7.2.1.13 #define LINUX\_AIO\_CTX\_UNHOOK(pctx)**

**Value:**

```
SLIST_REMOVE(&linux_aio_context_list, (pctx), \
            linux_aio_context, ctx_list_entry)
```

Referenced by linux\_aio\_proc\_rundown(), and linux\_io\_destroy().

**7.2.1.14 #define LINUX\_AIO\_CTX\_UNLOCK(pctx) sx\_unlock(&((pctx) → ctx\_sx))**

Referenced by linux\_io\_cancel(), linux\_io\_destroy(), linux\_io\_getevents(), and linux\_io\_submit().

**7.2.1.15 #define LINUX\_AIO\_DEBUG**

Definition at line 57 of file linux\_aino.c.

**7.2.1.16 #define LINUX\_AIO\_LOCK(p)****Value:**

```
{
    if ((p)→p_ainoinfo == NULL)
        aio_init_ainoinfo(p);
    mtx_lock((struct mtx *)((p)→p_ainoinfo));
}
```

Referenced by linux\_io\_cancel(), linux\_io\_destroy(), linux\_io\_getevents(), and linux\_io\_submit().

**7.2.1.17 #define LINUX\_AIO\_REQ\_FOREACH(pctx, preq) STAILQ\_FOREACH((preq), &((pctx) → ctx\_req), req\_ctx\_entry)**

Referenced by linux\_io\_cancel(), and linux\_io\_getevents().

**7.2.1.18 #define LINUX\_AIO\_REQ\_FOREACH\_SAFE(pctx, preq, ptmpreq)****Value:**

```
STAILQ_FOREACH_SAFE((preq), &((pctx)→ctx_req), req_ctx_entry,
    (ptmpreq))
```

Referenced by linux\_aino\_proc\_rundown(), linux\_io\_destroy(), and linux\_io\_getevents().

**7.2.1.19 #define LINUX\_AIO\_REQ\_HOOK(pctx, preq)****Value:**

```
{
    STAILQ_INSERT_TAIL(&((pctx)→ctx_req), (preq), req_ctx_entry);
    (pctx)→ctx_nreq_cur ++;
}
```

Referenced by linux\_io\_submit().

**7.2.1.20 #define LINUX\_AIO\_REQ\_UNHOOK(pctx, preq)****Value:**

```

{
    STAILQ_REMOVE(&((pctx)->ctx_req), (preq), linux_aio_request, \
                 req_ctx_entry); \
    (pctx)->ctx_nreq_cur --; \
}

```

Referenced by linux\_aio\_proc\_rundown(), linux\_io\_cancel(), linux\_io\_destroy(), and linux\_io\_getevents().

#### 7.2.1.21 #define LINUX\_AIO\_UNLOCK(p)

##### Value:

```

{
    if ((p)->p_aioinfo == NULL) \
        aio_init_aioinfo(p); \
    mtx_unlock((struct mtx *)((p)->p_aioinfo)); \
}

```

Referenced by linux\_io\_cancel(), linux\_io\_destroy(), linux\_io\_getevents(), and linux\_io\_submit().

#### 7.2.1.22 #define PREPARE\_DUMMY\_SYSCALL\_BACKUP(s) static sy\_call\_t \*p\_dummy\_linux\_ ## s

Referenced by SLIST\_HEAD().

#### 7.2.1.23 #define RESTORE\_DUMMY\_SYSCALL(s)

##### Value:

```

{
    linux_sysent[LINUX_SYS_linux_ ## s].sy_call = p_dummy_linux_ ## s; \
}

```

Referenced by linux\_aio\_modload().

#### 7.2.1.24 #define SHOW\_REAL\_SYSCALL(s)

##### Value:

```

{
    p_dummy_linux_ ## s = linux_sysent[LINUX_SYS_linux_ ## s].sy_call; \
    linux_sysent[LINUX_SYS_linux_ ## s].sy_call = \
        (sy_call_t *) (linux_ ## s); \
}

```

Referenced by linux\_aio\_modload().

## 7.2.2 Function Documentation

**7.2.2.1** `__FBSDID ("FreeBSD: src/linuxaio/linux_ao.c, v 1.94 2007/01/25 14:39:24 admin Exp $")`

**7.2.2.2** `DECLARE_MODULE (linuxaio, linux_ao_mod, SI_SUB_VFS, SI_ORDER_ANY)`

**7.2.2.3** `static int iocb_reformat (struct linux_iocb * plx, struct aiocb * pbsd)` [static]

Definition at line 359 of file linux\_ao.c.

References linux\_iocb::aio\_buf, linux\_iocb::aio\_fildes, linux\_iocb::aio\_lio\_opcode, linux\_iocb::aio\_nbytes, linux\_iocb::aio\_offset, linux\_iocb::aio\_reqprio, DPPRINTF, LINUX\_IOCTL\_CMD\_FDSYNC, LINUX\_IOCTL\_CMD\_FSYNC, LINUX\_IOCTL\_CMD\_NOOP, LINUX\_IOCTL\_CMD\_PREAD, and LINUX\_IOCTL\_CMD\_PWRITE.

Referenced by linux\_io\_submit().

**7.2.2.4** `static void linux_ao_dump_freebsd_aiocb (struct aiocb * piocb, int isuserland)` [static]

Definition at line 311 of file linux\_ao.c.

References DPPRINTF.

**7.2.2.5** `static int linux_ao_modload (struct module * module, int cmd, void * arg)` [static]

Definition at line 1182 of file linux\_ao.c.

References LINUX\_AIO\_CTX\_LIST\_LOCK, LINUX\_AIO\_CTX\_LIST\_UNLOCK, linux\_ao\_proc\_rundown(), RESTORE\_DUMMY\_SYSCALL, and SHOW\_REAL\_SYSCALL.

Here is the call graph for this function:



**7.2.2.6** `static void linux_ao_proc_rundown (void * arg, struct proc * p)` [static]

Definition at line 1137 of file linux\_ao.c.

References linux\_ao\_context::ctx\_pid, linux\_ao\_context::ctx\_pring, linux\_ao\_context::ctx\_sx, DPPRINTF, LINUX\_AIO\_CTX\_FOREACH\_SAFE, LINUX\_AIO\_CTX\_LIST\_LOCK, LINUX\_AIO\_CTX\_LIST\_UNLOCK, LINUX\_AIO\_CTX\_UNHOOK, LINUX\_AIO\_REQ\_FOREACH\_SAFE, and LINUX\_AIO\_REQ\_UNHOOK.

Referenced by linux\_ao\_modload().

**7.2.2.7** `int linux_io_cancel (struct thread * td, struct linux_io_cancel_args * args)`

Definition at line 1025 of file linux\_ao.c.

References `linux_iocb::aio_data`, `linux_iocb::aio_fildes`, `DARGPRINTF`, `linux_io_event::data`, `DPRINTF`, `LINUX_AIO_CTX_FOREACH`, `LINUX_AIO_CTX_LIST_LOCK`, `LINUX_AIO_CTX_LIST_UNLOCK`, `LINUX_AIO_CTX_LOCK`, `LINUX_AIO_CTX_MATCH`, `LINUX_AIO_CTX_UNLOCK`, `LINUX_AIO_LOCK`, `LINUX_AIO_REQ_FOREACH`, `LINUX_AIO_REQ_UNHOOK`, `LINUX_AIO_UNLOCK`, `linux_io_event::obj`, `linux_aio_request::req_linux`, `linux_aio_request::req_pbsd`, `linux_aio_request::req_porig`, `linux_io_event::res`, `linux_io_event::res2`, and `user_free()`.

Here is the call graph for this function:



### 7.2.2.8 `int linux_io_destroy (struct thread * td, struct linux_io_destroy_args * args)`

Definition at line 522 of file `linux_aio.c`.

References `linux_iocb::aio_fildes`, `linux_aio_context::ctx_pring`, `linux_aio_context::ctx_sx`, `DARGPRINTF`, `DPRINTF`, `LINUX_AIO_CTX_FOREACH`, `LINUX_AIO_CTX_LIST_LOCK`, `LINUX_AIO_CTX_LIST_UNLOCK`, `LINUX_AIO_CTX_LOCK`, `LINUX_AIO_CTX_MATCH`, `LINUX_AIO_CTX_UNLOCK`, `LINUX_AIO_LOCK`, `LINUX_AIO_REQ_FOREACH_SAFE`, `LINUX_AIO_REQ_UNHOOK`, `LINUX_AIO_UNLOCK`, `linux_aio_request::req_linux`, `linux_aio_request::req_pbsd`, `linux_aio_request::req_porig`, and `user_free()`.

Here is the call graph for this function:

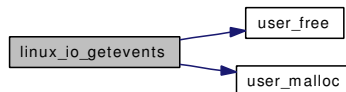


### 7.2.2.9 `int linux_io_getevents (struct thread * td, struct linux_io_getevents_args * args)`

Definition at line 634 of file `linux_aio.c`.

References `linux_iocb::aio_data`, `linux_aio_context::ctx_nreq_cur`, `linux_aio_context::ctx_nreq_max`, `DARGPRINTF`, `linux_io_event::data`, `DPRINTF`, `DUMP_TIMESPEC`, `LINUX_AIO_CTX_FOREACH`, `LINUX_AIO_CTX_LIST_LOCK`, `LINUX_AIO_CTX_LIST_UNLOCK`, `LINUX_AIO_CTX_LOCK`, `LINUX_AIO_CTX_MATCH`, `LINUX_AIO_CTX_UNLOCK`, `LINUX_AIO_LOCK`, `LINUX_AIO_REQ_FOREACH`, `LINUX_AIO_REQ_FOREACH_SAFE`, `LINUX_AIO_REQ_UNHOOK`, `LINUX_AIO_UNLOCK`, `linux_io_event::obj`, `linux_aio_request::req_linux`, `linux_aio_request::req_pbsd`, `linux_aio_request::req_porig`, `linux_io_event::res`, `linux_io_event::res2`, `user_free()`, and `user_malloc()`.

Here is the call graph for this function:

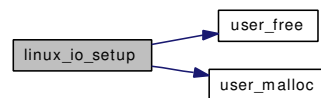


### 7.2.2.10 `int linux_io_setup (struct thread * td, struct linux_io_setup_args * args)`

Definition at line 409 of file `linux_aio.c`.

References `linux_ aio_ context:: ctx_ nreq_ cur`, `linux_ aio_ context:: ctx_ nreq_ max`, `linux_ aio_ context:: ctx_ pid`, `linux_ aio_ context:: ctx_ pring`, `linux_ aio_ context:: ctx_ sx`, `DARGPRINTF`, `DPRINTF`, `LINUX_ AIO_ CTX_ FOREACH`, `LINUX_ AIO_ CTX_ HOOK`, `LINUX_ AIO_ CTX_ LIST_ LOCK`, `LINUX_ AIO_ CTX_ LIST_ UNLOCK`, `LINUX_ AIO_ RING_ COMPAT_ FEATURES`, `LINUX_ AIO_ RING_ INCOMPAT_ FEATURES`, `LINUX_ AIO_ RING_ MAGIC`, `user_ free()`, and `user_ malloc()`.

Here is the call graph for this function:

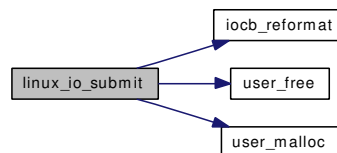


### 7.2.2.11 `int linux_ io_ submit (struct thread * td, struct linux_ io_ submit_ args * args)`

Definition at line 915 of file `linux_ aio. c`.

References `linux_ iocb:: aio_ fildes`, `linux_ iocb:: aio_ lio_ opcode`, `linux_ aio_ context:: ctx_ nreq_ cur`, `linux_ aio_ context:: ctx_ nreq_ max`, `DARGPRINTF`, `DPRINTF`, `DUMP_ FREEBSD_ AIOCB`, `iocb_ reformat()`, `LINUX_ AIO_ CTX_ FOREACH`, `LINUX_ AIO_ CTX_ LIST_ LOCK`, `LINUX_ AIO_ CTX_ LIST_ UNLOCK`, `LINUX_ AIO_ CTX_ LOCK`, `LINUX_ AIO_ CTX_ MATCH`, `LINUX_ AIO_ CTX_ UNLOCK`, `LINUX_ AIO_ LOCK`, `LINUX_ AIO_ REQ_ HOOK`, `LINUX_ AIO_ UNLOCK`, `linux_ aio_ request:: req_ linux`, `linux_ aio_ request:: req_ pbsd`, `linux_ aio_ request:: req_ porig`, `user_ free()`, and `user_ malloc()`.

Here is the call graph for this function:



### 7.2.2.12 `MODULE_ DEPEND (linuxaio, linux, 1, 1, 1)`

### 7.2.2.13 `MODULE_ DEPEND (linuxaio, aio, 1, 1, 1)`

### 7.2.2.14 `static SLIST_ HEAD (linux_ aio_ context) [static]`

Definition at line 135 of file `linux_ aio. c`.

References `PREPARE_ DUMMY_ SYSCALL_ BACKUP`.

### 7.2.2.15 `static int user_ free (struct thread * td, void * p, size_ t s) [static]`

Definition at line 290 of file `linux_ aio. c`.

References `DPPRINTF`.

Referenced by `linux_ io_ cancel()`, `linux_ io_ destroy()`, `linux_ io_ getevents()`, `linux_ io_ setup()`, and `linux_ io_ submit()`.

**7.2.2.16** `static int user_malloc (struct thread *td, void **pp, size_t s)` [static]

Definition at line 261 of file linux\_aio.c.

References DPPRINTF.

Referenced by linux\_io\_getevents(), linux\_io\_setup(), and linux\_io\_submit().

## 7.2.3 Variable Documentation

**7.2.3.1** `moduledata_t linux_aio_mod` [static]

**Initial value:**

```
{
    "linuxaio",
    &linux_aio_modload,
    NULL
}
```

Definition at line 1246 of file linux\_aio.c.



## 7.3 /usr/src/sys/compat/linux/linux\_aio.h File Reference

### Data Structures

- struct [linux\\_io\\_event](#)
- struct [linux\\_iocb](#)
- struct [linux\\_aio\\_ring](#)

### Defines

- #define [LINUX\\_AIO\\_PADDED\(x, y\) x,y](#)
- #define [LINUX\\_AIO\\_RING\\_MAGIC 0xa10a10a1](#)
- #define [LINUX\\_AIO\\_RING\\_COMPAT\\_FEATURES 1](#)
- #define [LINUX\\_AIO\\_RING\\_INCOMPAT\\_FEATURES 0](#)

### Typedefs

- typedef unsigned long [linux\\_aio\\_context\\_t](#)

### Enumerations

- enum {  
    [LINUX\\_IOCB\\_CMD\\_PREAD](#) = 0, [LINUX\\_IOCB\\_CMD\\_PWRITE](#) = 1, [LINUX\\_IOCB\\_CMD\\_-](#)  
    [FSYNC](#) = 2, [LINUX\\_IOCB\\_CMD\\_FDSYNC](#) = 3,  
    [LINUX\\_IOCB\\_CMD\\_NOOP](#) = 6 }

#### 7.3.1 Define Documentation

##### 7.3.1.1 #define LINUX\_AIO\_PADDED(x, y) x,y

Definition at line 57 of file linux\_aio.h.

##### 7.3.1.2 #define LINUX\_AIO\_RING\_COMPAT\_FEATURES 1

Definition at line 89 of file linux\_aio.h.

Referenced by [linux\\_io\\_setup\(\)](#).

##### 7.3.1.3 #define LINUX\_AIO\_RING\_INCOMPAT\_FEATURES 0

Definition at line 91 of file linux\_aio.h.

Referenced by [linux\\_io\\_setup\(\)](#).

##### 7.3.1.4 #define LINUX\_AIO\_RING\_MAGIC 0xa10a10a1

Definition at line 87 of file linux\_aio.h.

Referenced by [linux\\_io\\_setup\(\)](#).

## 7.3.2 Typedef Documentation

### 7.3.2.1 typedef unsigned long [linux\\_aio\\_context\\_t](#)

Definition at line 35 of file linux\_aio.h.

## 7.3.3 Enumeration Type Documentation

### 7.3.3.1 anonymous enum

Enumerator:

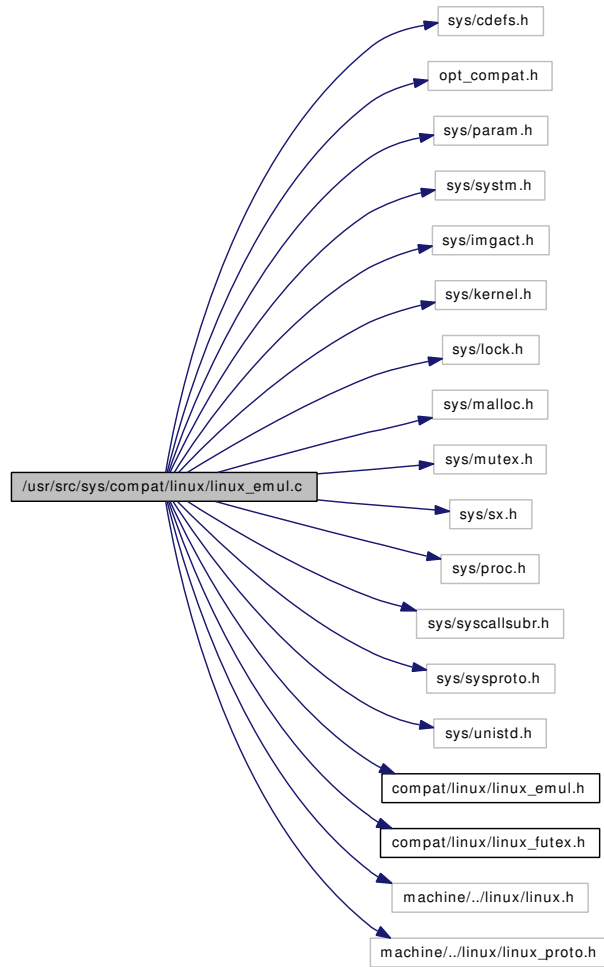
*LINUX\_IOCTL\_CMD\_PREAD*  
*LINUX\_IOCTL\_CMD\_PWRITE*  
*LINUX\_IOCTL\_CMD\_FSYNC*  
*LINUX\_IOCTL\_CMD\_FDSYNC*  
*LINUX\_IOCTL\_CMD\_NOOP*

Definition at line 37 of file linux\_aio.h.

## 7.4 /usr/src/sys/compat/linux/linux\_emul.c File Reference

```
#include <sys/cdefs.h>
#include "opt_compat.h"
#include <sys/param.h>
#include <sys/system.h>
#include <sys/imgact.h>
#include <sys/kernel.h>
#include <sys/lock.h>
#include <sys/malloc.h>
#include <sys/mutex.h>
#include <sys/sx.h>
#include <sys/proc.h>
#include <sys/syscallsubr.h>
#include <sys/sysproto.h>
#include <sys/unistd.h>
#include <compat/linux/linux_emul.h>
#include <compat/linux/linux_futex.h>
#include <machine/../linux/linux.h>
#include <machine/../linux/linux_proto.h>
```

Include dependency graph for linux\_emul.c:



## Functions

- [\\_\\_FBSDID](#) ("\$FreeBSD: src/sys/compat/linux/linux\_emul.c,v 1.17 2007/02/23 22:39:26 netchild Exp \$")
- [linux\\_emuldata \\* em\\_find](#) (struct proc \*p, int locked)
- [int linux\\_proc\\_init](#) (struct thread \*td, pid\_t child, int flags)
- [void linux\\_proc\\_exit](#) (void \*arg \_\_unused, struct proc \*p)
- [void linux\\_proc\\_exec](#) (void \*arg \_\_unused, struct proc \*p, struct image\_params \*imgp)
- [void linux\\_schedtail](#) (void \*arg \_\_unused, struct proc \*p)
- [int linux\\_set\\_tid\\_address](#) (struct thread \*td, struct linux\_set\_tid\_address\_args \*args)

## Variables

- [sx emul\\_shared\\_lock](#)
- [sx emul\\_lock](#)

## 7.4.1 Function Documentation

**7.4.1.1** `__FBSDID ("$FreeBSD: src/sys/compat/linux/linux_emul.c, v 1.17 2007/02/23 22:39:26 netchild Exp $")`

**7.4.1.2** `struct linux_emuldata* em_find (struct proc * p, int locked)`

Definition at line 63 of file linux\_emul.c.

References EMUL\_DOLOCK, EMUL\_LOCK, emul\_lock, and EMUL\_UNLOCK.

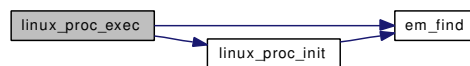
Referenced by linux\_exit\_group(), linux\_getpid(), linux\_getppid(), linux\_prctl(), linux\_proc\_exec(), linux\_proc\_exit(), linux\_proc\_init(), linux\_schedtail(), linux\_set\_tid\_address(), and linux\_tkill().

**7.4.1.3** `void linux_proc_exec (void *arg __unused, struct proc * p, struct image_params * imgp)`

Definition at line 251 of file linux\_emul.c.

References em\_find(), EMUL\_DONTLOCK, emul\_shared\_lock, EMUL\_SHARED\_WLOCK, EMUL\_SHARED\_WUNLOCK, linux\_proc\_init(), linux\_emuldata\_shared::refs, and linux\_emuldata::shared.

Here is the call graph for this function:



**7.4.1.4** `void linux_proc_exit (void *arg __unused, struct proc * p)`

Definition at line 153 of file linux\_emul.c.

References linux\_emuldata::child\_clear\_tid, em\_find(), EMUL\_DOLOCK, emul\_lock, emul\_shared\_lock, EMUL\_SHARED\_WLOCK, EMUL\_SHARED\_WUNLOCK, EMUL\_UNLOCK, linux\_emuldata\_shared::group\_pid, LINUX\_FUTEX\_WAKE, linux\_emuldata::pdeath\_signal, linux\_emuldata\_shared::refs, and linux\_emuldata::shared.

Here is the call graph for this function:



**7.4.1.5** `int linux_proc_init (struct thread * td, pid_t child, int flags)`

Definition at line 79 of file linux\_emul.c.

References linux\_emuldata::child\_clear\_tid, linux\_emuldata::child\_set\_tid, em\_find(), EMUL\_DOLOCK, EMUL\_DONTLOCK, emul\_lock, emul\_shared\_lock, EMUL\_SHARED\_WLOCK, EMUL\_SHARED\_WUNLOCK, EMUL\_UNLOCK, linux\_emuldata\_shared::refs, and linux\_emuldata::shared.

Referenced by linux\_proc\_exec().

Here is the call graph for this function:



#### 7.4.1.6 void linux\_schedtail (void \*arg \_\_unused, struct proc \*p)

Definition at line 289 of file linux\_emul.c.

References linux\_emuldata::child\_set\_tid, em\_find(), EMUL\_DOLOCK, emul\_lock, and EMUL\_UNLOCK.

Here is the call graph for this function:



#### 7.4.1.7 int linux\_set\_tid\_address (struct thread \*td, struct linux\_set\_tid\_address\_args \*args)

Definition at line 313 of file linux\_emul.c.

References linux\_emuldata::child\_clear\_tid, em\_find(), EMUL\_DOLOCK, emul\_lock, and EMUL\_UNLOCK.

Here is the call graph for this function:



## 7.4.2 Variable Documentation

### 7.4.2.1 struct sx [emul\\_lock](#)

Definition at line 59 of file linux\_emul.c.

Referenced by em\_find(), linux\_prctl(), linux\_proc\_exit(), linux\_proc\_init(), linux\_schedtail(), and linux\_set\_tid\_address().

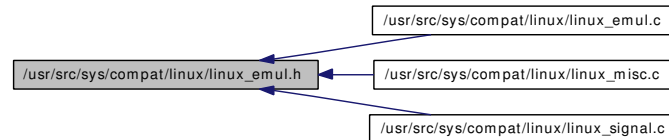
### 7.4.2.2 struct sx [emul\\_shared\\_lock](#)

Definition at line 58 of file linux\_emul.c.

Referenced by linux\_exit\_group(), linux\_proc\_exec(), linux\_proc\_exit(), and linux\_proc\_init().

## 7.5 /usr/src/sys/compat/linux/linux\_emul.h File Reference

This graph shows which files directly or indirectly include this file:



### Data Structures

- struct [linux\\_emuldata\\_shared](#)
- struct [linux\\_emuldata](#)

### Defines

- #define [EMUL\\_LOCK](#)(l) [sx\\_xlock](#)(l)
- #define [EMUL\\_UNLOCK](#)(l) [sx\\_xunlock](#)(l)
- #define [EMUL\\_SHARED\\_RLOCK](#)(l) [sx\\_slock](#)(l)
- #define [EMUL\\_SHARED\\_RUNLOCK](#)(l) [sx\\_sunlock](#)(l)
- #define [EMUL\\_SHARED\\_WLOCK](#)(l) [sx\\_xlock](#)(l)
- #define [EMUL\\_SHARED\\_WUNLOCK](#)(l) [sx\\_xunlock](#)(l)
- #define [EMUL\\_DOLOCK](#) 1
- #define [EMUL\\_DONTLOCK](#) 0

### Functions

- [linux\\_emuldata \\*](#) [em\\_find](#) (struct proc \*, int locked)
- int [linux\\_proc\\_init](#) (struct thread \*, pid\_t, int)
- void [linux\\_proc\\_exit](#) (void \*, struct proc \*)
- void [linux\\_schedtail](#) (void \*, struct proc \*)
- void [linux\\_proc\\_exec](#) (void \*, struct proc \*, struct image\_params \*)

### Variables

- sx [emul\\_shared\\_lock](#)
- sx [emul\\_lock](#)

#### 7.5.1 Define Documentation

##### 7.5.1.1 #define EMUL\_DOLOCK 1

Definition at line 69 of file [linux\\_emul.h](#).

Referenced by [em\\_find\(\)](#), [linux\\_prctl\(\)](#), [linux\\_proc\\_exit\(\)](#), [linux\\_proc\\_init\(\)](#), [linux\\_schedtail\(\)](#), and [linux\\_set\\_tid\\_address\(\)](#).

### 7.5.1.2 #define EMUL\_DONTLOCK 0

Definition at line 70 of file linux\_emul.h.

Referenced by linux\_exit\_group(), linux\_getpid(), linux\_getppid(), linux\_proc\_exec(), linux\_proc\_init(), and linux\_tgkill().

### 7.5.1.3 #define EMUL\_LOCK(l) sx\_xlock(l)

Definition at line 60 of file linux\_emul.h.

Referenced by em\_find().

### 7.5.1.4 #define EMUL\_SHARED\_RLOCK(l) sx\_slock(l)

Definition at line 63 of file linux\_emul.h.

Referenced by linux\_exit\_group().

### 7.5.1.5 #define EMUL\_SHARED\_RUNLOCK(l) sx\_sunlock(l)

Definition at line 64 of file linux\_emul.h.

Referenced by linux\_exit\_group().

### 7.5.1.6 #define EMUL\_SHARED\_WLOCK(l) sx\_xlock(l)

Definition at line 65 of file linux\_emul.h.

Referenced by linux\_proc\_exec(), linux\_proc\_exit(), and linux\_proc\_init().

### 7.5.1.7 #define EMUL\_SHARED\_WUNLOCK(l) sx\_xunlock(l)

Definition at line 66 of file linux\_emul.h.

Referenced by linux\_proc\_exec(), linux\_proc\_exit(), and linux\_proc\_init().

### 7.5.1.8 #define EMUL\_UNLOCK(l) sx\_xunlock(l)

Definition at line 61 of file linux\_emul.h.

Referenced by em\_find(), linux\_prctl(), linux\_proc\_exit(), linux\_proc\_init(), linux\_schedtail(), and linux\_set\_tid\_address().

## 7.5.2 Function Documentation

### 7.5.2.1 struct linux\_emuldata\* em\_find (struct proc \*, int *locked*)

Definition at line 63 of file linux\_emul.c.

References EMUL\_DOLOCK, emul\_lock, EMUL\_LOCK, and EMUL\_UNLOCK.



Referenced by `linux_exit_group()`, `linux_getpid()`, `linux_getppid()`, `linux_prctl()`, `linux_proc_exec()`, `linux_proc_exit()`, `linux_proc_init()`, `linux_schedtail()`, `linux_set_tid_address()`, and `linux_tgkill()`.

**7.5.2.2 void linux\_proc\_exec (void \*, struct proc \*, struct image\_params \*)**

**7.5.2.3 void linux\_proc\_exit (void \*, struct proc \*)**

**7.5.2.4 int linux\_proc\_init (struct thread \*, pid\_t, int)**

Definition at line 79 of file `linux_emul.c`.

References `linux_emuldata::child_clear_tid`, `linux_emuldata::child_set_tid`, `em_find()`, `EMUL_DOLOCK`, `EMUL_DONTLOCK`, `emul_lock`, `emul_shared_lock`, `EMUL_SHARED_WLOCK`, `EMUL_SHARED_WUNLOCK`, `EMUL_UNLOCK`, `linux_emuldata_shared::refs`, and `linux_emuldata::shared`.

Referenced by `linux_proc_exec()`.

Here is the call graph for this function:



**7.5.2.5 void linux\_schedtail (void \*, struct proc \*)**

## 7.5.3 Variable Documentation

**7.5.3.1 struct sx [emul\\_lock](#)**

Definition at line 59 of file `linux_emul.c`.

Referenced by `em_find()`, `linux_prctl()`, `linux_proc_exit()`, `linux_proc_init()`, `linux_schedtail()`, and `linux_set_tid_address()`.

**7.5.3.2 struct sx [emul\\_shared\\_lock](#)**

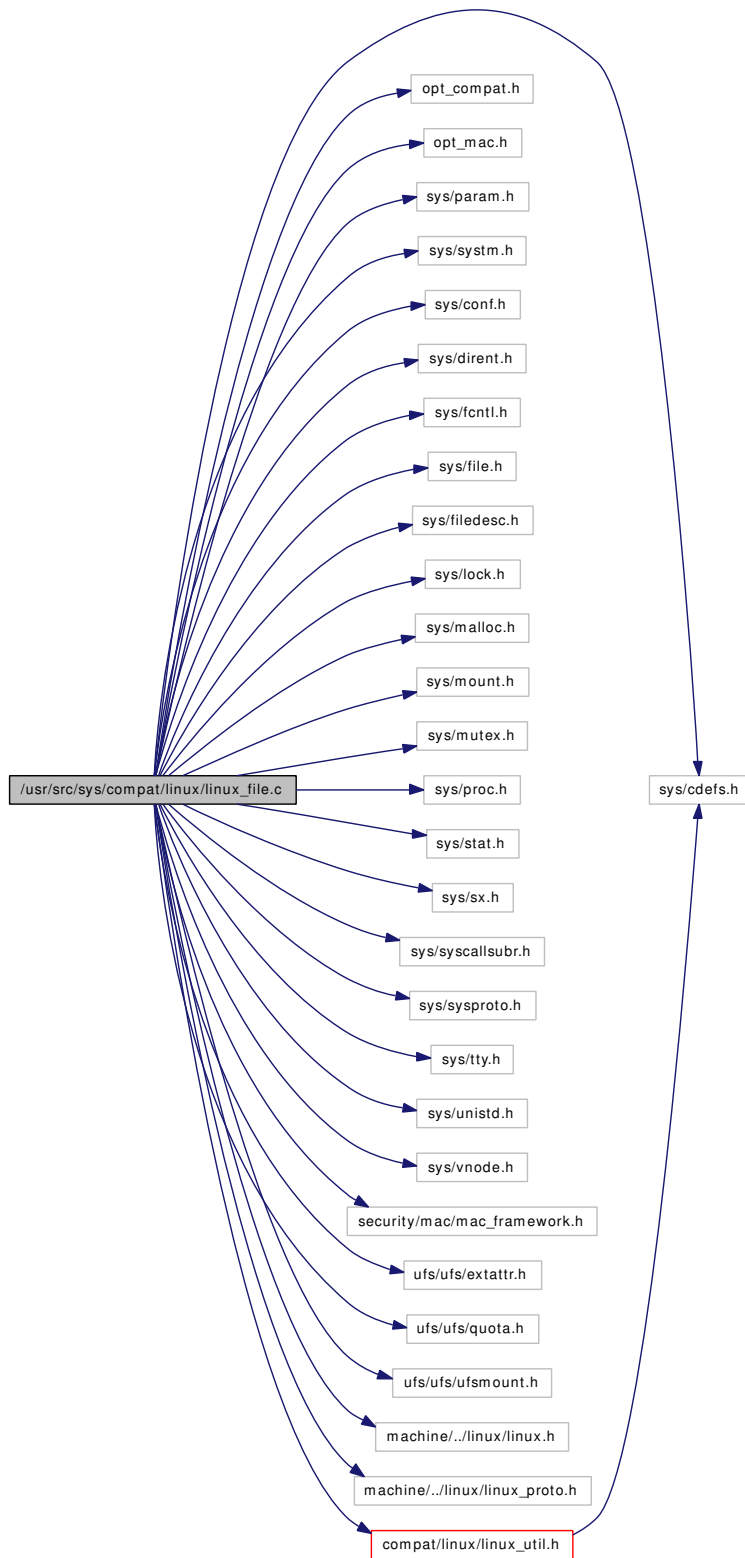
Definition at line 58 of file `linux_emul.c`.

Referenced by `linux_exit_group()`, `linux_proc_exec()`, `linux_proc_exit()`, and `linux_proc_init()`.

## 7.6 /usr/src/sys/compat/linux/linux\_file.c File Reference

```
#include <sys/cdefs.h>
#include "opt_compat.h"
#include "opt_mac.h"
#include <sys/param.h>
#include <sys/system.h>
#include <sys/conf.h>
#include <sys/dirent.h>
#include <sys/fcntl.h>
#include <sys/file.h>
#include <sys/filedesc.h>
#include <sys/lock.h>
#include <sys/malloc.h>
#include <sys/mount.h>
#include <sys/mutex.h>
#include <sys/proc.h>
#include <sys/stat.h>
#include <sys/sx.h>
#include <sys/syscallsubr.h>
#include <sys/sysproto.h>
#include <sys/tty.h>
#include <sys/unistd.h>
#include <sys/vnode.h>
#include <security/mac/mac_framework.h>
#include <ufs/ufs/extattr.h>
#include <ufs/ufs/quotas.h>
#include <ufs/ufs/ufsmount.h>
#include <machine/./linux/linux.h>
#include <machine/./linux/linux_proto.h>
#include <compat/linux/linux_util.h>
```

Include dependency graph for linux\_file.c:



## Data Structures

- struct [l\\_dirent](#)
- struct [l\\_dirent64](#)
- struct [l\\_flock](#)

## Defines

- #define [LINUX\\_RECLEN](#)(de, namlen) ALIGN((((char \*)&(de) → d\_name - (char \*)&de) + (namlen) + 1))
- #define [LINUX\\_DIRBLKSIZ](#) 512
- #define [DEFAULT\\_ROOTID](#) -2

## Functions

- [\\_\\_FBSDDID](#) ("FreeBSD: src/sys/compat/linux/linux\_file.c,v 1.101 2007/01/18 10:42:10 kib Exp \$")
- int [linux\\_creat](#) (struct thread \*td, struct linux\_creat\_args \*args)
- int [linux\\_open](#) (struct thread \*td, struct linux\_open\_args \*args)
- int [linux\\_lseek](#) (struct thread \*td, struct linux\_lseek\_args \*args)
- int [linux\\_llseek](#) (struct thread \*td, struct linux\_llseek\_args \*args)
- int [linux\\_readdir](#) (struct thread \*td, struct linux\_readdir\_args \*args)
- static int [getdents\\_common](#) (struct thread \*td, struct linux\_getdents64\_args \*args, int is64bit)
- int [linux\\_getdents](#) (struct thread \*td, struct linux\_getdents\_args \*args)
- int [linux\\_getdents64](#) (struct thread \*td, struct linux\_getdents64\_args \*args)
- int [linux\\_access](#) (struct thread \*td, struct linux\_access\_args \*args)
- int [linux\\_unlink](#) (struct thread \*td, struct linux\_unlink\_args \*args)
- int [linux\\_chdir](#) (struct thread \*td, struct linux\_chdir\_args \*args)
- int [linux\\_chmod](#) (struct thread \*td, struct linux\_chmod\_args \*args)
- int [linux\\_mkdir](#) (struct thread \*td, struct linux\_mkdir\_args \*args)
- int [linux\\_rmdir](#) (struct thread \*td, struct linux\_rmdir\_args \*args)
- int [linux\\_rename](#) (struct thread \*td, struct linux\_rename\_args \*args)
- int [linux\\_symlink](#) (struct thread \*td, struct linux\_symlink\_args \*args)
- int [linux\\_readlink](#) (struct thread \*td, struct linux\_readlink\_args \*args)
- int [linux\\_truncate](#) (struct thread \*td, struct linux\_truncate\_args \*args)
- int [linux\\_ftruncate](#) (struct thread \*td, struct linux\_ftruncate\_args \*args)
- int [linux\\_link](#) (struct thread \*td, struct linux\_link\_args \*args)
- int [linux\\_fdatasync](#) (struct thread \*td, struct linux\_fdatasync\_args \*uap)
- int [linux\\_pread](#) (struct thread \*td, struct linux\_pread\_args \*uap)
- int [linux\\_pwrite](#) (struct thread \*td, struct linux\_pwrite\_args \*uap)
- int [linux\\_mount](#) (struct thread \*td, struct linux\_mount\_args \*args)
- int [linux\\_oldumount](#) (struct thread \*td, struct linux\_oldumount\_args \*args)
- int [linux\\_umount](#) (struct thread \*td, struct linux\_umount\_args \*args)
- static void [linux\\_to\\_bsd\\_flock](#) (struct [l\\_flock](#) \*linux\_flock, struct flock \*bsd\_flock)
- static void [bsd\\_to\\_linux\\_flock](#) (struct flock \*bsd\_flock, struct [l\\_flock](#) \*linux\_flock)
- static int [fcntl\\_common](#) (struct thread \*td, struct linux\_fcntl64\_args \*args)
- int [linux\\_fcntl](#) (struct thread \*td, struct linux\_fcntl\_args \*args)
- int [linux\\_chown](#) (struct thread \*td, struct linux\_chown\_args \*args)
- int [linux\\_lchown](#) (struct thread \*td, struct linux\_lchown\_args \*args)

## 7.6.1 Define Documentation

### 7.6.1.1 #define DEFAULT\_ROOTID -2

Referenced by linux\_mount().

### 7.6.1.2 #define LINUX\_DIRBLKSIZ 512

Definition at line 274 of file linux\_file.c.

Referenced by getdents\_common().

### 7.6.1.3 #define LINUX\_RECLEN(de, namlen) ALIGN((((char \*)&(de) → d\_name - (char \*)de) + (namlen) + 1))

Definition at line 271 of file linux\_file.c.

Referenced by getdents\_common().

## 7.6.2 Function Documentation

### 7.6.2.1 \_\_FBSDID ("FreeBSD: src/sys/compat/linux/linux\_file.c, v 1.101 2007/01/18 10:42:10 kib Exp \$")

### 7.6.2.2 static void bsd\_to\_linux\_flock (struct flock \* bsd\_flock, struct l\_flock \* linux\_flock) [static]

Definition at line 930 of file linux\_file.c.

References l\_flock::l\_len, l\_flock::l\_pid, l\_flock::l\_start, l\_flock::l\_type, and l\_flock::l\_whence.

Referenced by fcntl\_common().

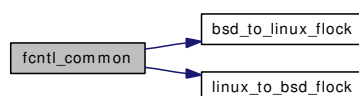
### 7.6.2.3 static int fcntl\_common (struct thread \* td, struct linux\_fcntl64\_args \* args) [static]

Definition at line 1007 of file linux\_file.c.

References bsd\_to\_linux\_flock(), and linux\_to\_bsd\_flock().

Referenced by linux\_fcntl().

Here is the call graph for this function:



### 7.6.2.4 static int getdents\_common (struct thread \* td, struct linux\_getdents64\_args \* args, int is64bit) [static]

Definition at line 277 of file linux\_file.c.

References `l_dirent64::d_ino`, `l_dirent::d_ino`, `l_dirent64::d_name`, `l_dirent::d_name`, `l_dirent64::d_off`, `l_dirent::d_off`, `l_dirent64::d_reclen`, `l_dirent::d_reclen`, `l_dirent64::d_type`, `LINUX_DIRBLKSIZ`, and `LINUX_RECLEN`.

Referenced by `linux_getdents()`, and `linux_getdents64()`.

#### 7.6.2.5 `int linux_access (struct thread * td, struct linux_access_args * args)`

Definition at line 509 of file `linux_file.c`.

References `LCONVPATHEXIST`, and `LFREEPATH`.

#### 7.6.2.6 `int linux_chdir (struct thread * td, struct linux_chdir_args * args)`

Definition at line 555 of file `linux_file.c`.

References `LCONVPATHEXIST`, and `LFREEPATH`.

#### 7.6.2.7 `int linux_chmod (struct thread * td, struct linux_chmod_args * args)`

Definition at line 572 of file `linux_file.c`.

References `LCONVPATHEXIST`, and `LFREEPATH`.

#### 7.6.2.8 `int linux_chown (struct thread * td, struct linux_chown_args * args)`

Definition at line 1195 of file `linux_file.c`.

References `LCONVPATHEXIST`, and `LFREEPATH`.

#### 7.6.2.9 `int linux_creat (struct thread * td, struct linux_creat_args * args)`

Definition at line 71 of file `linux_file.c`.

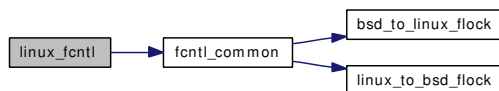
References `LCONVPATHEXIST`, and `LFREEPATH`.

#### 7.6.2.10 `int linux_fcntl (struct thread * td, struct linux_fcntl_args * args)`

Definition at line 1129 of file `linux_file.c`.

References `fcntl_common()`.

Here is the call graph for this function:



#### 7.6.2.11 `int linux_fdatasync (struct thread * td, struct linux_fdatasync_args * uap)`

Definition at line 747 of file `linux_file.c`.

**7.6.2.12 int linux\_ftruncate (struct thread \* td, struct linux\_ftruncate\_args \* args)**

Definition at line 708 of file linux\_file.c.

**7.6.2.13 int linux\_getdents (struct thread \* td, struct linux\_getdents\_args \* args)**

Definition at line 481 of file linux\_file.c.

References getdents\_common().

Referenced by linux\_readdir().

Here is the call graph for this function:

**7.6.2.14 int linux\_getdents64 (struct thread \* td, struct linux\_getdents64\_args \* args)**

Definition at line 493 of file linux\_file.c.

References getdents\_common().

Here is the call graph for this function:

**7.6.2.15 int linux\_lchown (struct thread \* td, struct linux\_lchown\_args \* args)**

Definition at line 1212 of file linux\_file.c.

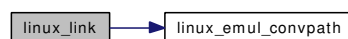
References LCONVPATHEXIST, and LFREEPATH.

**7.6.2.16 int linux\_link (struct thread \* td, struct linux\_link\_args \* args)**

Definition at line 723 of file linux\_file.c.

References LCONVPATHEXIST, LFREEPATH, and linux\_emul\_convpath().

Here is the call graph for this function:

**7.6.2.17 int linux\_llseek (struct thread \* td, struct linux\_llseek\_args \* args)**

Definition at line 209 of file linux\_file.c.

**7.6.2.18 int linux\_lseek (struct thread \* td, struct linux\_lseek\_args \* args)**

Definition at line 185 of file linux\_file.c.

**7.6.2.19 int linux\_mkdir (struct thread \* td, struct linux\_mkdir\_args \* args)**

Definition at line 589 of file linux\_file.c.

References LCONVPATHCREAT, and LFREEPATH.

**7.6.2.20 int linux\_mount (struct thread \* td, struct linux\_mount\_args \* args)**

Definition at line 802 of file linux\_file.c.

References DEFAULT\_ROOTID.

**7.6.2.21 int linux\_oldumount (struct thread \* td, struct linux\_oldumount\_args \* args)**

Definition at line 871 of file linux\_file.c.

References linux\_umount().

Here is the call graph for this function:

**7.6.2.22 int linux\_open (struct thread \* td, struct linux\_open\_args \* args)**

Definition at line 89 of file linux\_file.c.

References LCONVPATHCREAT, LCONVPATHEXIST, and LFREEPATH.

**7.6.2.23 int linux\_pread (struct thread \* td, struct linux\_pread\_args \* uap)**

Definition at line 758 of file linux\_file.c.

**7.6.2.24 int linux\_pwrite (struct thread \* td, struct linux\_pwrite\_args \* uap)**

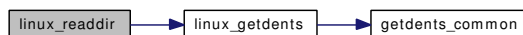
Definition at line 788 of file linux\_file.c.

**7.6.2.25 int linux\_readdir (struct thread \* td, struct linux\_readdir\_args \* args)**

Definition at line 237 of file linux\_file.c.

References linux\_getdents().

Here is the call graph for this function:





**7.6.2.26 int linux\_readlink (struct thread \* *td*, struct linux\_readlink\_args \* *args*)**

Definition at line 671 of file linux\_file.c.

References LCONVPATHEXIST, and LFREEPATH.

**7.6.2.27 int linux\_rename (struct thread \* *td*, struct linux\_rename\_args \* *args*)**

Definition at line 623 of file linux\_file.c.

References LCONVPATHEXIST, LFREEPATH, and linux\_emul\_convpath().

Here is the call graph for this function:

**7.6.2.28 int linux\_rmdir (struct thread \* *td*, struct linux\_rmdir\_args \* *args*)**

Definition at line 606 of file linux\_file.c.

References LCONVPATHEXIST, and LFREEPATH.

**7.6.2.29 int linux\_symlink (struct thread \* *td*, struct linux\_symlink\_args \* *args*)**

Definition at line 647 of file linux\_file.c.

References LCONVPATHEXIST, LFREEPATH, and linux\_emul\_convpath().

Here is the call graph for this function:

**7.6.2.30 static void linux\_to\_bsd\_flock (struct l\_flock \* *linux\_flock*, struct flock \* *bsd\_flock*)  
[static]**

Definition at line 907 of file linux\_file.c.

References l\_flock::l\_len, l\_flock::l\_pid, l\_flock::l\_start, l\_flock::l\_type, and l\_flock::l\_whence.

Referenced by fcntl\_common().

**7.6.2.31 int linux\_truncate (struct thread \* *td*, struct linux\_truncate\_args \* *args*)**

Definition at line 690 of file linux\_file.c.

References LCONVPATHEXIST, and LFREEPATH.

**7.6.2.32 int linux\_umount (struct thread \* *td*, struct linux\_umount\_args \* *args*)**

Definition at line 881 of file linux\_file.c.

Referenced by linux\_oldumount().

**7.6.2.33 int linux\_unlink (struct thread \* *td*, struct linux\_unlink\_args \* *args*)**

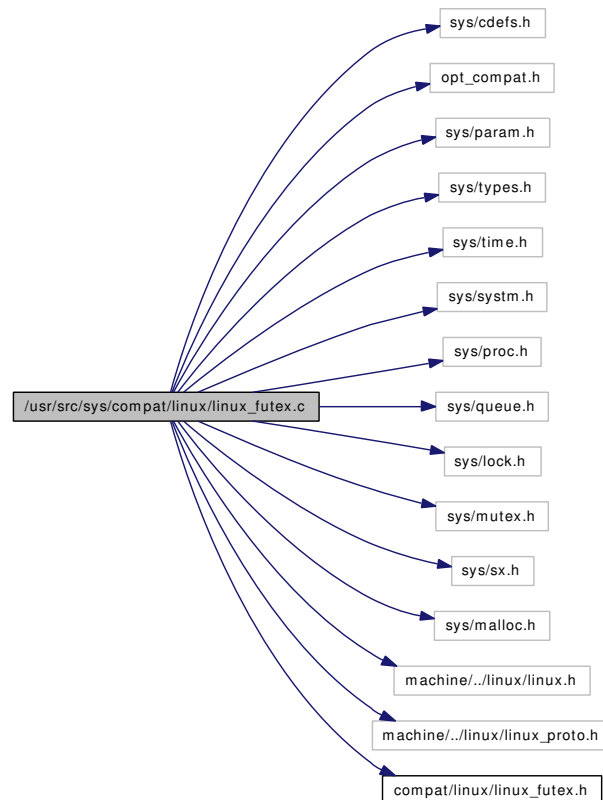
Definition at line 531 of file linux\_file.c.

References LCONVPATHEXIST, and LFREEPATH.

## 7.7 /usr/src/sys/compat/linux/linux\_futex.c File Reference

```
#include <sys/cdefs.h>
#include "opt_compat.h"
#include <sys/param.h>
#include <sys/types.h>
#include <sys/time.h>
#include <sys/system.h>
#include <sys/proc.h>
#include <sys/queue.h>
#include <sys/lock.h>
#include <sys/mutex.h>
#include <sys/sx.h>
#include <sys/malloc.h>
#include <machine/./linux/linux.h>
#include <machine/./linux/linux_proto.h>
#include <compat/linux/linux_futex.h>
```

Include dependency graph for linux\_futex.c:



## Data Structures

- struct [waiting\\_proc](#)
- struct [futex](#)

## Defines

- #define [FUTEX\\_LOCK](#) `sx_xlock(&futex_sx)`
- #define [FUTEX\\_UNLOCK](#) `sx_xunlock(&futex_sx)`
- #define [FUTEX\\_LOCKED](#) 1
- #define [FUTEX\\_UNLOCKED](#) 0
- #define [FUTEX\\_SYSTEM\\_LOCK](#) `mtx_lock(&Giant)`
- #define [FUTEX\\_SYSTEM\\_UNLOCK](#) `mtx_unlock(&Giant)`

## Functions

- [\\_\\_FBSDID](#) ("\$FreeBSD: src/sys/compat/linux/linux\_futex.c,v 1.6 2006/09/09 16:25:25 netchild Exp \$")
- [LIST\\_HEAD](#) (#define [FUTEX\\_LOCK](#)#define [FUTEX\\_UNLOCK](#)#define [FUTEX\\_LOCKED](#)#define [FUTEX\\_UNLOCKED](#)#define [FUTEX\\_SYSTEM\\_LOCK](#)#define [FUTEX\\_SYSTEM\\_UNLOCK](#)static struct [futex](#) \*futex\_get(void \*, [futex](#))
- static struct [futex](#) \* [futex\\_get](#) (void \*uaddr, int locked)
- static void [futex\\_put](#) (struct [futex](#) \*f)
- static int [futex\\_sleep](#) (struct [futex](#) \*f, struct thread \*td, unsigned long timeout)
- static int [futex\\_wake](#) (struct [futex](#) \*f, int n, struct [futex](#) \*newf)

### 7.7.1 Define Documentation

#### 7.7.1.1 #define [FUTEX\\_LOCK](#) `sx_xlock(&futex_sx)`

Referenced by [futex\\_get\(\)](#), [futex\\_put\(\)](#), [futex\\_sleep\(\)](#), and [futex\\_wake\(\)](#).

#### 7.7.1.2 #define [FUTEX\\_LOCKED](#) 1

Referenced by [futex\\_wake\(\)](#).

#### 7.7.1.3 #define [FUTEX\\_SYSTEM\\_LOCK](#) `mtx_lock(&Giant)`

#### 7.7.1.4 #define [FUTEX\\_SYSTEM\\_UNLOCK](#) `mtx_unlock(&Giant)`

#### 7.7.1.5 #define [FUTEX\\_UNLOCK](#) `sx_xunlock(&futex_sx)`

Referenced by [futex\\_get\(\)](#), [futex\\_put\(\)](#), [futex\\_sleep\(\)](#), and [futex\\_wake\(\)](#).

#### 7.7.1.6 #define [FUTEX\\_UNLOCKED](#) 0

Referenced by [futex\\_get\(\)](#).

## 7.7.2 Function Documentation

**7.7.2.1** `__FBSDID ("$FreeBSD: src/sys/compat/linux/linux_futex.c, v 1.6 2006/09/09 16:25:25 netchild Exp $")`

**7.7.2.2** `static struct futex* futex_get (void *uaddr, int locked) [static]`

Definition at line 333 of file linux\_futex.c.

References `futex::f_refcount`, `futex::f_uaddr`, `FUTEX_LOCK`, `FUTEX_UNLOCK`, and `FUTEX_UNLOCKED`.

Referenced by `futex_wake()`.

**7.7.2.3** `static void futex_put (struct futex *f) [static]`

Definition at line 360 of file linux\_futex.c.

References `FUTEX_LOCK`, and `FUTEX_UNLOCK`.

Referenced by `futex_sleep()`.

**7.7.2.4** `static int futex_sleep (struct futex *f, struct thread *td, unsigned long timeout) [static]`

Definition at line 375 of file linux\_futex.c.

References `FUTEX_LOCK`, `futex_put()`, and `FUTEX_UNLOCK`.

Here is the call graph for this function:



**7.7.2.5** `static int futex_wake (struct futex *f, int n, struct futex *newf) [static]`

Definition at line 409 of file linux\_futex.c.

References `futex::f_uaddr`, `futex_get()`, `FUTEX_LOCK`, `FUTEX_LOCKED`, `FUTEX_UNLOCK`, and `waiting_proc::wp_new_futex`.

Here is the call graph for this function:

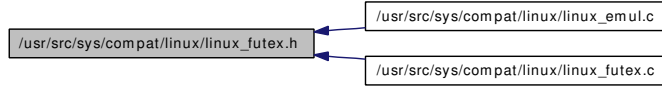


**7.7.2.6** `LIST_HEAD (#define FUTEX_LOCK#define FUTEX_UNLOCK#define FUTEX_LOCKED#define FUTEX_UNLOCKED#define FUTEX_SYSTEM_LOCK#define FUTEX_SYSTEM_UNLOCKstatic struct futex *futex_get(void *, futex)`

Definition at line 76 of file linux\_futex.c.

## 7.8 /usr/src/sys/compat/linux/linux\_futex.h File Reference

This graph shows which files directly or indirectly include this file:



### Defines

- #define [LINUX\\_FUTEX\\_WAIT](#) 0
- #define [LINUX\\_FUTEX\\_WAKE](#) 1
- #define [LINUX\\_FUTEX\\_FD](#) 2
- #define [LINUX\\_FUTEX\\_REQUEUE](#) 3
- #define [LINUX\\_FUTEX\\_CMP\\_REQUEUE](#) 4
- #define [LINUX\\_FUTEX\\_WAKE\\_OP](#) 5
- #define [FUTEX\\_OP\\_SET](#) 0
- #define [FUTEX\\_OP\\_ADD](#) 1
- #define [FUTEX\\_OP\\_OR](#) 2
- #define [FUTEX\\_OP\\_ANDN](#) 3
- #define [FUTEX\\_OP\\_XOR](#) 4
- #define [FUTEX\\_OP\\_OPARG\\_SHIFT](#) 8
- #define [FUTEX\\_OP\\_CMP\\_EQ](#) 0
- #define [FUTEX\\_OP\\_CMP\\_NE](#) 1
- #define [FUTEX\\_OP\\_CMP\\_LT](#) 2
- #define [FUTEX\\_OP\\_CMP\\_LE](#) 3
- #define [FUTEX\\_OP\\_CMP\\_GT](#) 4
- #define [FUTEX\\_OP\\_CMP\\_GE](#) 5

### 7.8.1 Define Documentation

#### 7.8.1.1 #define FUTEX\_OP\_ADD 1

Definition at line 47 of file linux\_futex.h.

#### 7.8.1.2 #define FUTEX\_OP\_ANDN 3

Definition at line 49 of file linux\_futex.h.

#### 7.8.1.3 #define FUTEX\_OP\_CMP\_EQ 0

Definition at line 54 of file linux\_futex.h.

#### 7.8.1.4 #define FUTEX\_OP\_CMP\_GE 5

Definition at line 59 of file linux\_futex.h.

**7.8.1.5 #define FUTEX\_OP\_CMP\_GT 4**

Definition at line 58 of file linux\_futex.h.

**7.8.1.6 #define FUTEX\_OP\_CMP\_LE 3**

Definition at line 57 of file linux\_futex.h.

**7.8.1.7 #define FUTEX\_OP\_CMP\_LT 2**

Definition at line 56 of file linux\_futex.h.

**7.8.1.8 #define FUTEX\_OP\_CMP\_NE 1**

Definition at line 55 of file linux\_futex.h.

**7.8.1.9 #define FUTEX\_OP\_OPARG\_SHIFT 8**

Definition at line 52 of file linux\_futex.h.

**7.8.1.10 #define FUTEX\_OP\_OR 2**

Definition at line 48 of file linux\_futex.h.

**7.8.1.11 #define FUTEX\_OP\_SET 0**

Definition at line 46 of file linux\_futex.h.

**7.8.1.12 #define FUTEX\_OP\_XOR 4**

Definition at line 50 of file linux\_futex.h.

**7.8.1.13 #define LINUX\_FUTEX\_CMP\_REQUEUE 4**

Definition at line 43 of file linux\_futex.h.

**7.8.1.14 #define LINUX\_FUTEX\_FD 2**

Definition at line 41 of file linux\_futex.h.

**7.8.1.15 #define LINUX\_FUTEX\_REQUEUE 3**

Definition at line 42 of file linux\_futex.h.

**7.8.1.16 #define LINUX\_FUTEX\_WAIT 0**

Definition at line 39 of file linux\_futex.h.

**7.8.1.17 #define LINUX\_FUTEX\_WAKE 1**

Definition at line 40 of file linux\_futex.h.

Referenced by linux\_proc\_exit().

**7.8.1.18 #define LINUX\_FUTEX\_WAKE\_OP 5**

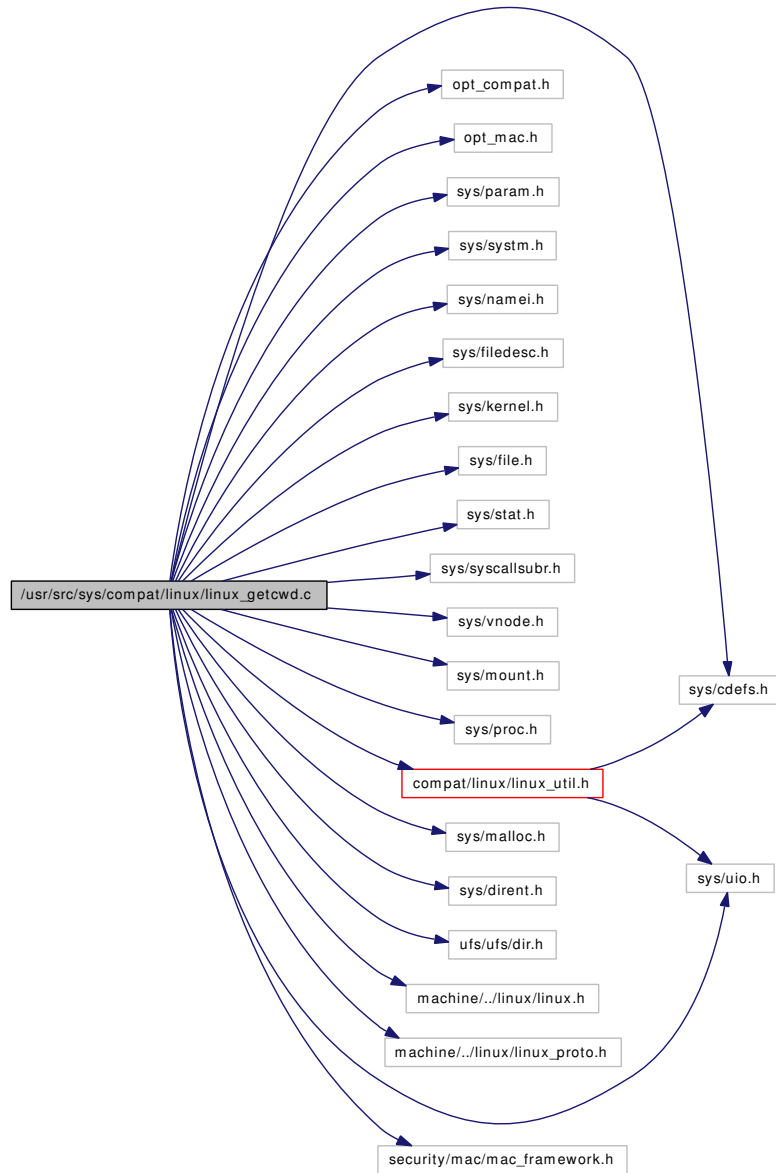
Definition at line 44 of file linux\_futex.h.



## 7.9 /usr/src/sys/compat/linux/linux\_getcwd.c File Reference

```
#include <sys/cdefs.h>
#include "opt_compat.h"
#include "opt_mac.h"
#include <sys/param.h>
#include <sys/system.h>
#include <sys/namei.h>
#include <sys/filedesc.h>
#include <sys/kernel.h>
#include <sys/file.h>
#include <sys/stat.h>
#include <sys/syscallsubr.h>
#include <sys/vnode.h>
#include <sys/mount.h>
#include <sys/proc.h>
#include <sys/uio.h>
#include <sys/malloc.h>
#include <sys/dirent.h>
#include <ufs/ufs/dir.h>
#include <machine/../linux/linux.h>
#include <machine/../linux/linux_proto.h>
#include <compat/linux/linux_util.h>
#include <security/mac/mac_framework.h>
```

Include dependency graph for linux\_getcwd.c:



## Defines

- #define [DIRENT\\_MINSIZE](#) (sizeof(struct dirent) - (MAXNAMLEN+1) + 4)
- #define [GETCWD\\_CHECK\\_ACCESS](#) 0x0001

## Functions

- [\\_\\_FBSDDID](#) ("FreeBSD: src/sys/compat/linux/linux\_getcwd.c,v 1.27 2006/11/18 17:27:39 kib Exp \$")
- static int [linux\\_getcwd\\_scandir](#) (struct vnode \*\*, struct vnode \*\*, char \*\*, char \*, struct thread \*)
- static int [linux\\_getcwd\\_common](#) (struct vnode \*, struct vnode \*, char \*\*, char \*, int, int, struct thread \*)
- int [linux\\_getcwd](#) (struct thread \*td, struct linux\_getcwd\_args \*args)

## 7.9.1 Define Documentation

### 7.9.1.1 #define DIRENT\_MINSIZE (sizeof(struct dirent) - (MAXNAMLEN+1) + 4)

Definition at line 79 of file linux\_getcwd.c.

Referenced by linux\_getcwd\_scandir().

### 7.9.1.2 #define GETCWD\_CHECK\_ACCESS 0x0001

Definition at line 294 of file linux\_getcwd.c.

Referenced by linux\_getcwd(), and linux\_getcwd\_common().

## 7.9.2 Function Documentation

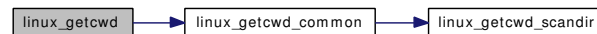
### 7.9.2.1 \_\_FBSDID ("FreeBSD: src/sys/compat/linux/linux\_getcwd. c, v 1.27 2006/11/18 17:27:39 kib Exp \$")

### 7.9.2.2 int linux\_getcwd (struct thread \* td, struct linux\_getcwd\_args \* args)

Definition at line 422 of file linux\_getcwd.c.

References GETCWD\_CHECK\_ACCESS, and linux\_getcwd\_common().

Here is the call graph for this function:



### 7.9.2.3 static int linux\_getcwd\_common (struct vnode \*, struct vnode \*, char \*\*, char \*, int, int, struct thread \*) [static]

Definition at line 297 of file linux\_getcwd.c.

References GETCWD\_CHECK\_ACCESS, and linux\_getcwd\_scandir().

Referenced by linux\_getcwd().

Here is the call graph for this function:



### 7.9.2.4 static int linux\_getcwd\_scandir (struct vnode \*\*, struct vnode \*\*, char \*\*, char \*, struct thread \*) [static]

Definition at line 117 of file linux\_getcwd.c.

References DIRENT\_MINSIZE.

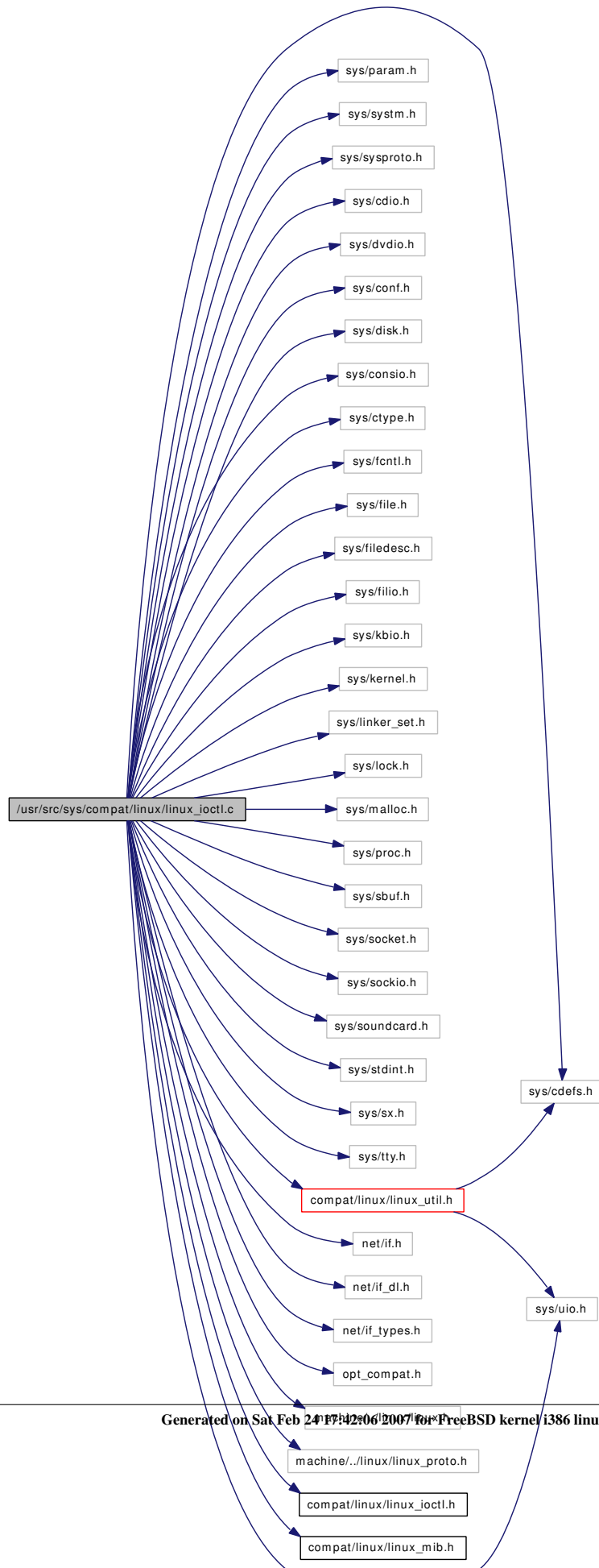
Referenced by linux\_getcwd\_common().

## 7.10 /usr/src/sys/compat/linux/linux\_ioctl.c File Reference

```
#include <sys/cdefs.h>
#include <sys/param.h>
#include <sys/system.h>
#include <sys/sysproto.h>
#include <sys/cdio.h>
#include <sys/dvdio.h>
#include <sys/conf.h>
#include <sys/disk.h>
#include <sys/consio.h>
#include <sys/ctype.h>
#include <sys/fcntl.h>
#include <sys/file.h>
#include <sys/filedesc.h>
#include <sys/filio.h>
#include <sys/kbio.h>
#include <sys/kernel.h>
#include <sys/linker_set.h>
#include <sys/lock.h>
#include <sys/malloc.h>
#include <sys/proc.h>
#include <sys/sbuf.h>
#include <sys/socket.h>
#include <sys/sockio.h>
#include <sys/soundcard.h>
#include <sys/stdint.h>
#include <sys/sx.h>
#include <sys/tty.h>
#include <sys/uio.h>
#include <net/if.h>
#include <net/if_dl.h>
#include <net/if_types.h>
#include "opt_compat.h"
#include <machine/../linux/linux.h>
#include <machine/../linux/linux_proto.h>
#include <compat/linux/linux_ioctl.h>
```

```
#include <compat/linux/linux_mib.h>
#include <compat/linux/linux_util.h>
```

Include dependency graph for linux\_ioctl.c:



## Data Structures

- struct [handler\\_element](#)
- struct [linux\\_hd\\_big\\_geometry](#)
- struct [linux\\_termio](#)
- struct [linux\\_termios](#)
- struct [linux\\_winsize](#)
- struct [linux\\_serial\\_struct](#)
- struct [linux\\_cdrom\\_msf](#)
- struct [linux\\_cdrom\\_tochdr](#)
- union [linux\\_cdrom\\_addr](#)
- struct [linux\\_cdrom\\_tocentry](#)
- struct [linux\\_cdrom\\_subchnl](#)
- struct [l\\_cdrom\\_read\\_audio](#)
- struct [l\\_dvd\\_layer](#)
- struct [l\\_dvd\\_physical](#)
- struct [l\\_dvd\\_copyright](#)
- struct [l\\_dvd\\_disckey](#)
- struct [l\\_dvd\\_bca](#)
- struct [l\\_dvd\\_manufact](#)
- union [l\\_dvd\\_struct](#)
- struct [l\\_dvd\\_lu\\_send\\_agid](#)
- struct [l\\_dvd\\_host\\_send\\_challenge](#)
- struct [l\\_dvd\\_send\\_key](#)
- struct [l\\_dvd\\_lu\\_send\\_challenge](#)
- struct [l\\_dvd\\_lu\\_send\\_title\\_key](#)
- struct [l\\_dvd\\_lu\\_send\\_asf](#)
- struct [l\\_dvd\\_host\\_send\\_rpcstate](#)
- struct [l\\_dvd\\_lu\\_send\\_rpcstate](#)
- union [l\\_dvd\\_authinfo](#)
- struct [linux\\_mixer\\_info](#)
- struct [linux\\_old\\_mixer\\_info](#)

## Defines

- #define [SETDIR\(c\)](#) (((c) & ~IOC\_DIRMASK) | [dirbits](#)[args → cmd >> 30])
- #define [ISSIGVALID\(sig\)](#) ((sig) > 0 && (sig) < NSIG)
- #define [IFP\\_IS\\_ETH\(ifp\)](#) (ifp → if\_type == IFT\_ETHER)
- #define [ARPHRD\\_ETHER](#) 1
- #define [ARPHRD\\_LOOPBACK](#) 772

## Typedefs

- typedef u\_char [l\\_dvd\\_key](#) [5]
- typedef u\_char [l\\_dvd\\_challenge](#) [10]

## Functions

- `__FBSDDID` ("FreeBSD: src/sys/compat/linux/linux\_ioctl.c,v 1.137 2006/07/06 21:42:36 jhb Exp \$")
- `CTASSERT` (LINUX\_IFNAMSIZ==IFNAMSIZ)
- `DATA_SET` (linux\_ioctl\_handler\_set, `cdrom_handler`)
- `DATA_SET` (linux\_ioctl\_handler\_set, `vfat_handler`)
- `DATA_SET` (linux\_ioctl\_handler\_set, `console_handler`)
- `DATA_SET` (linux\_ioctl\_handler\_set, `hdio_handler`)
- `DATA_SET` (linux\_ioctl\_handler\_set, `disk_handler`)
- `DATA_SET` (linux\_ioctl\_handler\_set, `socket_handler`)
- `DATA_SET` (linux\_ioctl\_handler\_set, `sound_handler`)
- `DATA_SET` (linux\_ioctl\_handler\_set, `termio_handler`)
- `DATA_SET` (linux\_ioctl\_handler\_set, `private_handler`)
- `DATA_SET` (linux\_ioctl\_handler\_set, `drm_handler`)
- static `TAILQ_HEAD` (`handler_element`)
- static int `linux_ioctl_hdio` (struct thread \*td, struct linux\_ioctl\_args \*args)
- static int `linux_ioctl_disk` (struct thread \*td, struct linux\_ioctl\_args \*args)
- static int `linux_to_bsd_speed` (int code, struct speedtab \*table)
- static int `bsd_to_linux_speed` (int speed, struct speedtab \*table)
- static void `bsd_to_linux_termios` (struct termios \*bios, struct `linux_termios` \*lios)
- static void `linux_to_bsd_termios` (struct `linux_termios` \*lios, struct termios \*bios)
- static void `bsd_to_linux_termio` (struct termios \*bios, struct `linux_termio` \*lio)
- static void `linux_to_bsd_termio` (struct `linux_termio` \*lio, struct termios \*bios)
- static int `linux_ioctl_termio` (struct thread \*td, struct linux\_ioctl\_args \*args)
- static void `bsd_to_linux_msf_lba` (u\_char af, union `msf_lba` \*bp, union `linux_cdrom_addr` \*lp)
- static void `set_linux_cdrom_addr` (union `linux_cdrom_addr` \*addr, int format, int lba)
- static int `linux_to_bsd_dvd_struct` (`l_dvd_struct` \*lp, struct `dvd_struct` \*bp)
- static int `bsd_to_linux_dvd_struct` (struct `dvd_struct` \*bp, `l_dvd_struct` \*lp)
- static int `linux_to_bsd_dvd_authinfo` (`l_dvd_authinfo` \*lp, int \*bcode, struct `dvd_authinfo` \*bp)
- static int `bsd_to_linux_dvd_authinfo` (struct `dvd_authinfo` \*bp, `l_dvd_authinfo` \*lp)
- static int `linux_ioctl_cdrom` (struct thread \*td, struct linux\_ioctl\_args \*args)
- static int `linux_ioctl_vfat` (struct thread \*td, struct linux\_ioctl\_args \*args)
- static int `linux_ioctl_sound` (struct thread \*td, struct linux\_ioctl\_args \*args)
- static int `linux_ioctl_console` (struct thread \*td, struct linux\_ioctl\_args \*args)
- int `linux_ifname` (struct ifnet \*ifp, char \*buffer, size\_t buflen)
- static struct ifnet \* `ifname_linux_to_bsd` (const char \*lname, char \*bsdname)
- static int `linux_ifconf` (struct thread \*td, struct ifconf \*uifc)
- static int `linux_gifflags` (struct thread \*td, struct ifnet \*ifp, struct `l_ifreq` \*ifr)
- static int `linux_gifhwaddr` (struct ifnet \*ifp, struct `l_ifreq` \*ifr)
- static int `bsd_to_linux_ifreq` (struct ifreq \*arg)
- static int `linux_ioctl_socket` (struct thread \*td, struct linux\_ioctl\_args \*args)
- static int `linux_ioctl_private` (struct thread \*td, struct linux\_ioctl\_args \*args)
- static int `linux_ioctl_drm` (struct thread \*td, struct linux\_ioctl\_args \*args)
- static int `linux_ioctl_special` (struct thread \*td, struct linux\_ioctl\_args \*args)
- int `linux_ioctl` (struct thread \*td, struct linux\_ioctl\_args \*args)
- int `linux_ioctl_register_handler` (struct linux\_ioctl\_handler \*h)
- int `linux_ioctl_unregister_handler` (struct linux\_ioctl\_handler \*h)



## Variables

- static linux\_ioctl\_function\_t [linux\\_ioctl\\_cdrom](#)
- static linux\_ioctl\_function\_t [linux\\_ioctl\\_vfat](#)
- static linux\_ioctl\_function\_t [linux\\_ioctl\\_console](#)
- static linux\_ioctl\_function\_t [linux\\_ioctl\\_hdio](#)
- static linux\_ioctl\_function\_t [linux\\_ioctl\\_disk](#)
- static linux\_ioctl\_function\_t [linux\\_ioctl\\_socket](#)
- static linux\_ioctl\_function\_t [linux\\_ioctl\\_sound](#)
- static linux\_ioctl\_function\_t [linux\\_ioctl\\_termio](#)
- static linux\_ioctl\_function\_t [linux\\_ioctl\\_private](#)
- static linux\_ioctl\_function\_t [linux\\_ioctl\\_drm](#)
- static linux\_ioctl\_function\_t [linux\\_ioctl\\_special](#)
- static struct linux\_ioctl\_handler [cdrom\\_handler](#)
- static struct linux\_ioctl\_handler [vfat\\_handler](#)
- static struct linux\_ioctl\_handler [console\\_handler](#)
- static struct linux\_ioctl\_handler [hdio\\_handler](#)
- static struct linux\_ioctl\_handler [disk\\_handler](#)
- static struct linux\_ioctl\_handler [socket\\_handler](#)
- static struct linux\_ioctl\_handler [sound\\_handler](#)
- static struct linux\_ioctl\_handler [termio\\_handler](#)
- static struct linux\_ioctl\_handler [private\\_handler](#)
- static struct linux\_ioctl\_handler [drm\\_handler](#)
- static struct speedtab [sptab](#) []
- static u\_int32\_t [dirbits](#) [4] = { IOC\_VOID, IOC\_IN, IOC\_OUT, IOC\_INOUT }

## 7.10.1 Define Documentation

### 7.10.1.1 #define ARPHRD\_ETHER 1

Definition at line 2220 of file `linux_ioctl.c`.

Referenced by `linux_gifhwaddr()`.

### 7.10.1.2 #define ARPHRD\_LOOPBACK 772

Definition at line 2221 of file `linux_ioctl.c`.

Referenced by `linux_gifhwaddr()`.

### 7.10.1.3 #define IFP\_IS\_ETH(ifp) (ifp → if\_type == IFT\_ETHER)

Definition at line 2022 of file `linux_ioctl.c`.

Referenced by `ifname_linux_to_bsd()`, `linux_ifconf()`, and `linux_ifname()`.

### 7.10.1.4 #define ISSIGVALID(sig) ((sig) > 0 && (sig) < NSIG)

Definition at line 1899 of file `linux_ioctl.c`.

Referenced by `linux_ioctl_console()`.

### 7.10.1.5 `#define SETDIR(c) (((c) & ~IOC_DIRMASK) | dirbits[args → cmd >> 30])`

Definition at line 1624 of file `linux_ioctl.c`.

Referenced by `linux_ioctl_drm()`, and `linux_ioctl_sound()`.

## 7.10.2 Typedef Documentation

### 7.10.2.1 `typedef u_char l_dvd_challenge[10]`

Definition at line 1118 of file `linux_ioctl.c`.

### 7.10.2.2 `typedef u_char l_dvd_key[5]`

Definition at line 1117 of file `linux_ioctl.c`.

## 7.10.3 Function Documentation

### 7.10.3.1 `__FBSDID("$FreeBSD: src/sys/compat/linux/linux_ioctl.c, v 1.137 2006/07/06 21:42:36 jhb Exp $")`

### 7.10.3.2 `static int bsd_to_linux_dvd_authinfo (struct dvd_authinfo * bp, l_dvd_authinfo * lp) [static]`

Definition at line 1345 of file `linux_ioctl.c`.

References `l_dvd_lu_send_agid::agid`, `l_dvd_lu_send_asf::asf`, `l_dvd_lu_send_title_key::cgms`, `l_dvd_lu_send_challenge::chal`, `l_dvd_lu_send_title_key::cp_sec`, `l_dvd_lu_send_title_key::cpm`, `l_dvd_send_key::key`, `LINUX_DVD_AUTH_ESTABLISHED`, `LINUX_DVD_HOST_SEND_CHALLENGE`, `LINUX_DVD_HOST_SEND_KEY2`, `LINUX_DVD_HOST_SEND_RPC_STATE`, `LINUX_DVD_INVALIDATE_AGID`, `LINUX_DVD_LU_SEND_AGID`, `LINUX_DVD_LU_SEND_ASF`, `LINUX_DVD_LU_SEND_CHALLENGE`, `LINUX_DVD_LU_SEND_KEY1`, `LINUX_DVD_LU_SEND_RPC_STATE`, `LINUX_DVD_LU_SEND_TITLE_KEY`, `l_dvd_authinfo::lrpcs`, `l_dvd_authinfo::lsa`, `l_dvd_authinfo::lsasf`, `l_dvd_authinfo::lsc`, `l_dvd_authinfo::lsk`, `l_dvd_authinfo::lstk`, `l_dvd_lu_send_rpcstate::region_mask`, `l_dvd_lu_send_rpcstate::rpc_scheme`, `l_dvd_lu_send_title_key::title_key`, `l_dvd_lu_send_rpcstate::type`, `l_dvd_authinfo::type`, `l_dvd_lu_send_rpcstate::ucca`, and `l_dvd_lu_send_rpcstate::vra`.

Referenced by `linux_ioctl_cdrom()`.

### 7.10.3.3 `static int bsd_to_linux_dvd_struct (struct dvd_struct * bp, l_dvd_struct * lp) [static]`

Definition at line 1236 of file `linux_ioctl.c`.

References `l_dvd_struct::bca`, `l_dvd_layer::book_version`, `l_dvd_struct::copyright`, `l_dvd_copyright::cpst`, `l_dvd_struct::disckey`, `l_dvd_physical::layer`, `l_dvd_manufact::len`, `l_dvd_bca::len`, `l_dvd_struct::manufact`, `l_dvd_struct::physical`, `l_dvd_copyright::rmi`, `l_dvd_manufact::value`, `l_dvd_bca::value`, and `l_dvd_disckey::value`.

Referenced by `linux_ioctl_cdrom()`.

**7.10.3.4 static int bsd\_to\_linux\_ifreq (struct ifreq \* arg) [static]**

Definition at line 2260 of file linux\_ioctl.c.

Referenced by linux\_ioctl\_socket().

**7.10.3.5 static void bsd\_to\_linux\_msf\_lba (u\_char af, union msf\_lba \* bp, union linux\_cdrom\_addr \* lp) [static]**

Definition at line 1186 of file linux\_ioctl.c.

References linux\_cdrom\_addr::frame, linux\_cdrom\_addr::lba, linux\_cdrom\_addr::minute, linux\_cdrom\_addr::msf, and linux\_cdrom\_addr::second.

Referenced by linux\_ioctl\_cdrom().

**7.10.3.6 static int bsd\_to\_linux\_speed (int speed, struct speedtab \* table) [static]**

Definition at line 333 of file linux\_ioctl.c.

Referenced by bsd\_to\_linux\_termios().

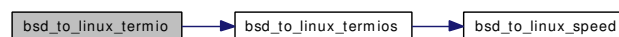
**7.10.3.7 static void bsd\_to\_linux\_termio (struct termios \* bios, struct linux\_termio \* lio) [static]**

Definition at line 625 of file linux\_ioctl.c.

References bsd\_to\_linux\_termios(), linux\_termios::c\_cc, linux\_termio::c\_cc, linux\_termios::c\_cflag, linux\_termio::c\_cflag, linux\_termios::c\_iflag, linux\_termio::c\_iflag, linux\_termios::c\_lflag, linux\_termio::c\_lflag, linux\_termios::c\_line, linux\_termio::c\_line, linux\_termios::c\_oflag, linux\_termio::c\_oflag, and LINUX\_NCC.

Referenced by linux\_ioctl\_termio().

Here is the call graph for this function:

**7.10.3.8 static void bsd\_to\_linux\_termios (struct termios \* bios, struct linux\_termios \* lios) [static]**

Definition at line 342 of file linux\_ioctl.c.

References bsd\_to\_linux\_speed(), linux\_termios::c\_cc, linux\_termios::c\_cflag, linux\_termios::c\_iflag, linux\_termios::c\_lflag, linux\_termios::c\_line, linux\_termios::c\_oflag, LINUX\_BRKINT, LINUX\_CLOCAL, LINUX\_CREAD, LINUX\_CRTSCTS, LINUX\_CSTOPB, LINUX\_ECHO, LINUX\_ECHOCTL, LINUX\_ECHOE, LINUX\_ECHOK, LINUX\_ECHOKE, LINUX\_ECHONL, LINUX\_ECHOPRT, LINUX\_FLUSHO, LINUX\_HUPCL, LINUX\_ICANON, LINUX\_ICRNL, LINUX\_IEXTEN, LINUX\_IGNBRK, LINUX\_IGNCR, LINUX\_IGNPAR, LINUX\_IMAXBEL, LINUX\_INLCR, LINUX\_INPCK, LINUX\_ISIG, LINUX\_ISTRIP, LINUX\_IXANY, LINUX\_IXOFF, LINUX\_IXON, LINUX\_NCCS, LINUX\_NOFLSH, LINUX\_ONLCR, LINUX\_OPOST, LINUX\_PARENB, LINUX\_PARMRK, LINUX\_PARODD, LINUX\_PENDIN, LINUX\_POSIX\_VDISABLE, LINUX\_TOSTOP,

LINUX\_VDISCARD, LINUX\_VEOF, LINUX\_VEOL, LINUX\_VEOL2, LINUX\_VERASE, LINUX\_VINTR, LINUX\_VKILL, LINUX\_VLNEXT, LINUX\_VMIN, LINUX\_VQUIT, LINUX\_VREPRINT, LINUX\_VSTART, LINUX\_VSTOP, LINUX\_VSUSP, LINUX\_VTIME, LINUX\_VWERASE, LINUX\_XTABS, and sptab.

Referenced by `bsd_to_linux_termio()`, and `linux_ioctl_termio()`.

Here is the call graph for this function:



**7.10.3.9** CTASSERT (LINUX\_IFNAMSIZ == IFNAMSIZ)

**7.10.3.10** DATA\_SET (linux\_ioctl\_handler\_set, [drm\\_handler](#))

**7.10.3.11** DATA\_SET (linux\_ioctl\_handler\_set, [private\\_handler](#))

**7.10.3.12** DATA\_SET (linux\_ioctl\_handler\_set, [termio\\_handler](#))

**7.10.3.13** DATA\_SET (linux\_ioctl\_handler\_set, [sound\\_handler](#))

**7.10.3.14** DATA\_SET (linux\_ioctl\_handler\_set, [socket\\_handler](#))

**7.10.3.15** DATA\_SET (linux\_ioctl\_handler\_set, [disk\\_handler](#))

**7.10.3.16** DATA\_SET (linux\_ioctl\_handler\_set, [hdio\\_handler](#))

**7.10.3.17** DATA\_SET (linux\_ioctl\_handler\_set, [console\\_handler](#))

**7.10.3.18** DATA\_SET (linux\_ioctl\_handler\_set, [vfat\\_handler](#))

**7.10.3.19** DATA\_SET (linux\_ioctl\_handler\_set, [cdrom\\_handler](#))

**7.10.3.20** static struct ifnet\* ifname\_linux\_to\_bsd (const char \* *lname*, char \* *bsdname*)  
[static]

Definition at line 2062 of file `linux_ioctl.c`.

References `IFP_IS_ETH`.

Referenced by `linux_ioctl_socket()`.

**7.10.3.21** static int linux\_gifflags (struct thread \* *td*, struct ifnet \* *ifp*, struct l\_ifreq \* *ifr*)  
[static]

Definition at line 2203 of file `linux_ioctl.c`.

Referenced by `linux_ioctl_socket()`.

**7.10.3.22** static int linux\_gifhwaddr (struct ifnet \* *ifp*, struct l\_ifreq \* *ifr*) [static]

Definition at line 2224 of file `linux_ioctl.c`.

References ARPHRD\_ETHER, and ARPHRD\_LOOPBACK.

Referenced by linux\_ioctl\_socket().

### 7.10.3.23 static int linux\_ifconf (struct thread \* *td*, struct ifconf \* *uifc*) [static]

Definition at line 2102 of file linux\_ioctl.c.

References IFP\_IS\_ETH.

Referenced by linux\_ioctl\_socket().

### 7.10.3.24 int linux\_ifname (struct ifnet \* *ifp*, char \* *buffer*, size\_t *buflen*)

Definition at line 2029 of file linux\_ioctl.c.

References IFP\_IS\_ETH.

### 7.10.3.25 int linux\_ioctl (struct thread \* *td*, struct linux\_ioctl\_args \* *args*)

Definition at line 2558 of file linux\_ioctl.c.

References linux\_msg().

Here is the call graph for this function:

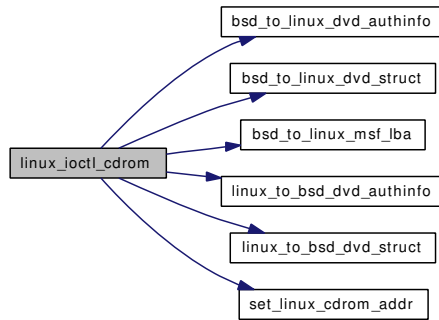


### 7.10.3.26 static int linux\_ioctl\_cdrom (struct thread \* *td*, struct linux\_ioctl\_args \* *args*) [static]

Definition at line 1391 of file linux\_ioctl.c.

References bsd\_to\_linux\_dvd\_authinfo(), bsd\_to\_linux\_dvd\_struct(), bsd\_to\_linux\_msf\_lba(), linux\_cdrom\_tochdr::cdth\_trk0, linux\_cdrom\_tochdr::cdth\_trk1, LINUX\_CDROMEJECT, LINUX\_CDROMPAUSE, LINUX\_CDROMPLAYMSF, LINUX\_CDROMPLAYTRKIND, LINUX\_CDROMREADTOCENTRY, LINUX\_CDROMREADTOCHDR, LINUX\_CDROMRESET, LINUX\_CDROMRESUME, LINUX\_CDROMSTART, LINUX\_CDROMSTOP, LINUX\_CDROMSUBCHNL, LINUX\_DVD\_AUTH, LINUX\_DVD\_AUTH\_FAILURE, LINUX\_DVD\_HOST\_SEND\_KEY2, LINUX\_DVD\_READ\_STRUCT, linux\_to\_bsd\_dvd\_authinfo(), linux\_to\_bsd\_dvd\_struct(), and set\_linux\_cdrom\_addr().

Here is the call graph for this function:



**7.10.3.27** `static int linux_ioctl_console (struct thread * td, struct linux_ioctl_args * args)`  
`[static]`

Definition at line 1902 of file `linux_ioctl.c`.

References `ISSIGVALID`, `LINUX_KBD_MEDIUMRAW`, `LINUX_KBD_RAW`, `LINUX_KBD_XLATE`, `LINUX_KDGETLED`, `LINUX_KDGETMODE`, `LINUX_KDGKBMODE`, `LINUX_KDMKTONE`, `LINUX_KDSETLED`, `LINUX_KDSETMODE`, `LINUX_KDSKBMODE`, `LINUX_KIOCSOUND`, `LINUX_VT_ACTIVATE`, `LINUX_VT_GETMODE`, `LINUX_VT_GETSTATE`, `LINUX_VT_OPENQRY`, `LINUX_VT_RELDISP`, `LINUX_VT_SETMODE`, and `LINUX_VT_WAITACTIVE`.

**7.10.3.28** `static int linux_ioctl_disk (struct thread * td, struct linux_ioctl_args * args)` `[static]`

Definition at line 235 of file `linux_ioctl.c`.

References `LINUX_BLKGETSIZE`.

**7.10.3.29** `static int linux_ioctl_drm (struct thread * td, struct linux_ioctl_args * args)` `[static]`

Definition at line 2519 of file `linux_ioctl.c`.

References `SETDIR`.

**7.10.3.30** `static int linux_ioctl_hdio (struct thread * td, struct linux_ioctl_args * args)` `[static]`

Definition at line 154 of file `linux_ioctl.c`.

References `linux_hd_big_geometry::cylinders`, `linux_hd_big_geometry::heads`, `LINUX_HDIO_GET_GEO`, `LINUX_HDIO_GET_GEO_BIG`, `linux_msg()`, `linux_hd_big_geometry::sectors`, and `linux_hd_big_geometry::start`.

Here is the call graph for this function:



### 7.10.3.31 `static int linux_ioctl_private (struct thread * td, struct linux_ioctl_args * args)` `[static]`

Definition at line 2501 of file linux\_ioctl.c.

References linux\_ioctl\_socket.

### 7.10.3.32 `int linux_ioctl_register_handler (struct linux_ioctl_handler * h)`

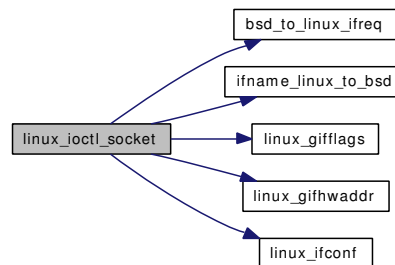
Definition at line 2604 of file linux\_ioctl.c.

### 7.10.3.33 `static int linux_ioctl_socket (struct thread * td, struct linux_ioctl_args * args)` `[static]`

Definition at line 2281 of file linux\_ioctl.c.

References `bsd_to_linux_ifreq()`, `ifname_linux_to_bsd()`, `LINUX_FIOGETOWN`, `LINUX_FIOSETOWN`, `linux_gifflags()`, `linux_gifhwaddr()`, `linux_ifconf()`, `linux_ioctl_special`, `LINUX_SIOCADDMULTI`, `LINUX_SIOCATMARK`, `LINUX_SIOCDELMULTI`, `LINUX_SIOCDEVPRIVATE`, `LINUX_SIOCGIFADDR`, `LINUX_SIOCGIFBRDADDR`, `LINUX_SIOCGIFCONF`, `LINUX_SIOCGIFDSTADDR`, `LINUX_SIOCGIFFLAGS`, `LINUX_SIOCGIFHWADDR`, `LINUX_SIOCGIFMTU`, `LINUX_SIOCGIFNETMASK`, `LINUX_SIOCGPGRP`, `LINUX_SIOCSIFADDR`, `LINUX_SIOCSIFHWADDR`, `LINUX_SIOCSIFMTU`, `LINUX_SIOCSIFNAME`, `LINUX_SIOCSIFNETMASK`, and `LINUX_SIOCSGRP`.

Here is the call graph for this function:



### 7.10.3.34 `static int linux_ioctl_sound (struct thread * td, struct linux_ioctl_args * args)` `[static]`

Definition at line 1627 of file linux\_ioctl.c.

References `linux_get_oss_version()`, `LINUX_OSS_GETVERSION`, `LINUX_SNDCTL_DSP_GETBLKSIZE`, `LINUX_SNDCTL_DSP_GETCAPS`, `LINUX_SNDCTL_DSP_GETFMTS`, `LINUX_SNDCTL_DSP_GETIPTR`, `LINUX_SNDCTL_DSP_GETISPACE`, `LINUX_SNDCTL_DSP_GETODELAY`, `LINUX_SNDCTL_DSP_GETOPTR`, `LINUX_SNDCTL_DSP_GETOSPACE`, `LINUX_SNDCTL_DSP_NONBLOCK`, `LINUX_SNDCTL_DSP_POST`, `LINUX_SNDCTL_DSP_RESET`, `LINUX_SNDCTL_DSP_SETDUPLEX`, `LINUX_SNDCTL_DSP_SETFMT`, `LINUX_SNDCTL_DSP_SETFRAGMENT`, `LINUX_SNDCTL_DSP_SETTRIGGER`, `LINUX_SNDCTL_DSP_SPEED`, `LINUX_SNDCTL_DSP_STEREO`, `LINUX_SNDCTL_DSP_SUBDIVIDE`, `LINUX_SNDCTL_DSP_SYNC`, `LINUX_SNDCTL_FM_LOAD_INSTR`, `LINUX_SNDCTL_MIDI_INFO`, `LINUX_SNDCTL_SEQ_CTRLRATE`, `LINUX_SNDCTL_SEQ_GETINCOUNT`, and `LINUX_SNDCTL_SEQ_GETOUTCOUNT`.

LINUX\_SNDCTL\_SEQ\_NRMIDIS, LINUX\_SNDCTL\_SEQ\_NRSYNTHS, LINUX\_SNDCTL\_SEQ\_PERCMODE, LINUX\_SNDCTL\_SEQ\_RESET, LINUX\_SNDCTL\_SEQ\_RESETSAMPLES, LINUX\_SNDCTL\_SEQ\_SYNC, LINUX\_SNDCTL\_SEQ\_TESTMIDI, LINUX\_SNDCTL\_SEQ\_TRESHOLD, LINUX\_SNDCTL\_SYNTH\_INFO, LINUX\_SNDCTL\_SYNTH\_MEMAVL, LINUX\_SOUND\_MIXER\_INFO, LINUX\_SOUND\_MIXER\_READ\_DEVMASK, LINUX\_SOUND\_MIXER\_READ\_REC\_MASK, LINUX\_SOUND\_MIXER\_READ\_STEREODEVS, LINUX\_SOUND\_MIXER\_WRITE\_ALTPCM, LINUX\_SOUND\_MIXER\_WRITE\_BASS, LINUX\_SOUND\_MIXER\_WRITE\_CD, LINUX\_SOUND\_MIXER\_WRITE\_IGAIN, LINUX\_SOUND\_MIXER\_WRITE\_IMIX, LINUX\_SOUND\_MIXER\_WRITE\_LINE, LINUX\_SOUND\_MIXER\_WRITE\_LINE1, LINUX\_SOUND\_MIXER\_WRITE\_LINE2, LINUX\_SOUND\_MIXER\_WRITE\_LINE3, LINUX\_SOUND\_MIXER\_WRITE\_MIC, LINUX\_SOUND\_MIXER\_WRITE\_OGAIN, LINUX\_SOUND\_MIXER\_WRITE\_PCM, LINUX\_SOUND\_MIXER\_WRITE\_RECLEV, LINUX\_SOUND\_MIXER\_WRITE\_RECSRC, LINUX\_SOUND\_MIXER\_WRITE\_SPEAKER, LINUX\_SOUND\_MIXER\_WRITE\_SYNTH, LINUX\_SOUND\_MIXER\_WRITE\_TREBLE, LINUX\_SOUND\_MIXER\_WRITE\_VOLUME, LINUX\_SOUND\_PCM\_WRITE\_CHANNELS, LINUX\_SOUND\_PCM\_WRITE\_FILTER, and SETDIR.

Here is the call graph for this function:



#### 7.10.3.35 `static int linux_ioctl_special (struct thread * td, struct linux_ioctl_args * args)` [static]

Definition at line 2529 of file linux\_ioctl.c.

References LINUX\_SIOCGIFADDR, LINUX\_SIOCGIFFLAGS, and LINUX\_SIOCSIFADDR.

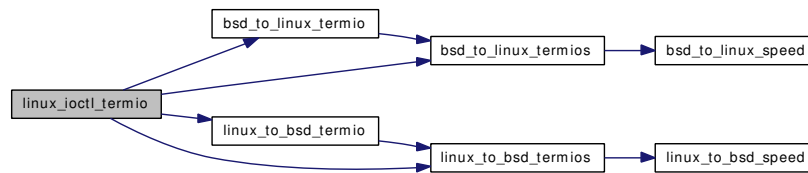
#### 7.10.3.36 `static int linux_ioctl_termio (struct thread * td, struct linux_ioctl_args * args)` [static]

Definition at line 655 of file linux\_ioctl.c.

References `bsd_to_linux_termio()`, `bsd_to_linux_termios()`, `linux_serial_struct::close_delay`, `linux_serial_struct::flags`, `linux_serial_struct::line`, LINUX\_FIOASYNC, LINUX\_FIOCLEX, LINUX\_FIONBIO, LINUX\_FIONCLEX, LINUX\_FIONREAD, LINUX\_N\_PPP, LINUX\_N\_SLIP, LINUX\_N\_TTY, LINUX\_PORT\_16550A, LINUX\_TCFLSH, LINUX\_TCGETA, LINUX\_TCGETS, LINUX\_TCIFLUSH, LINUX\_TCIOFF, LINUX\_TCIOFLUSH, LINUX\_TCION, LINUX\_TCOFLUSH, LINUX\_TCOOFF, LINUX\_TCOON, LINUX\_TCSETA, LINUX\_TCSETAF, LINUX\_TCSETAW, LINUX\_TCSETS, LINUX\_TCSETSF, LINUX\_TCSETSW, LINUX\_TCXONC, LINUX\_TIOCCBRK, LINUX\_TIOCCONS, LINUX\_TIOCEXCL, LINUX\_TIOCGETD, LINUX\_TIOCGPGRP, LINUX\_TIOCGPTN, LINUX\_TIOCGSERIAL, LINUX\_TIOCGWINSZ, LINUX\_TIOCMBIC, LINUX\_TIOCMBIS, LINUX\_TIOCMGET, LINUX\_TIOCMSET, LINUX\_TIOCNOTTY, LINUX\_TIOCNXCL, LINUX\_TIOCSBRK, LINUX\_TIOCSCTTY, LINUX\_TIOCSETD, LINUX\_TIOCSPPGRP, LINUX\_TIOCSSERIAL, LINUX\_TIOCSWINSZ, `linux_to_bsd_termio()`, `linux_to_bsd_termios()`, and `linux_serial_struct::type`.

Here is the call graph for this function:





### 7.10.3.37 `int linux_ioctl_unregister_handler (struct linux_ioctl_handler * h)`

Definition at line 2647 of file linux\_ioctl.c.

### 7.10.3.38 `static int linux_ioctl_vfat (struct thread * td, struct linux_ioctl_args * args)` [static]

Definition at line 1600 of file linux\_ioctl.c.

### 7.10.3.39 `static int linux_to_bsd_dvd_authinfo (l_dvd_authinfo * lp, int * bcode, struct dvd_authinfo * bp)` [static]

Definition at line 1282 of file linux\_ioctl.c.

References `l_dvd_lu_send_asf::agid`, `l_dvd_lu_send_title_key::agid`, `l_dvd_lu_send_challenge::agid`, `l_dvd_send_key::agid`, `l_dvd_host_send_challenge::agid`, `l_dvd_lu_send_agid::agid`, `l_dvd_host_send_challenge::chal`, `l_dvd_authinfo::hrpcs`, `l_dvd_authinfo::hsc`, `l_dvd_authinfo::hsk`, `l_dvd_send_key::key`, `l_dvd_lu_send_title_key::lba`, `LINUX_DVD_HOST_SEND_CHALLENGE`, `LINUX_DVD_HOST_SEND_KEY2`, `LINUX_DVD_HOST_SEND_RPC_STATE`, `LINUX_DVD_INVALIDATE_AGID`, `LINUX_DVD_LU_SEND_AGID`, `LINUX_DVD_LU_SEND_ASF`, `LINUX_DVD_LU_SEND_CHALLENGE`, `LINUX_DVD_LU_SEND_KEY1`, `LINUX_DVD_LU_SEND_RPC_STATE`, `LINUX_DVD_LU_SEND_TITLE_KEY`, `l_dvd_authinfo::lsa`, `l_dvd_authinfo::lsasf`, `l_dvd_authinfo::lsc`, `l_dvd_authinfo::lsk`, `l_dvd_authinfo::lstk`, `l_dvd_host_send_rpcstate::pdrc`, and `l_dvd_authinfo::type`.

Referenced by `linux_ioctl_cdrom()`.

### 7.10.3.40 `static int linux_to_bsd_dvd_struct (l_dvd_struct * lp, struct dvd_struct * bp)` [static]

Definition at line 1211 of file linux\_ioctl.c.

References `l_dvd_disckey::agid`, `l_dvd_struct::copyright`, `l_dvd_struct::disckey`, `l_dvd_copyright::layer_num`, `l_dvd_physical::layer_num`, `l_dvd_struct::physical`, and `l_dvd_struct::type`.

Referenced by `linux_ioctl_cdrom()`.

### 7.10.3.41 `static int linux_to_bsd_speed (int code, struct speedtab * table)` [static]

Definition at line 324 of file linux\_ioctl.c.

Referenced by `linux_to_bsd_termios()`.

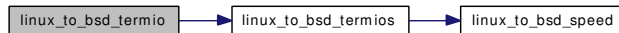
**7.10.3.42 static void linux\_to\_bsd\_termio** (struct **linux\_termio** \* *lio*, struct **termios** \* *bios*)  
[static]

Definition at line 639 of file linux\_ioctl.c.

References linux\_termio::c\_cc, linux\_termios::c\_cc, linux\_termio::c\_cflag, linux\_termios::c\_cflag, linux\_termio::c\_iflag, linux\_termios::c\_iflag, linux\_termio::c\_lflag, linux\_termios::c\_lflag, linux\_termio::c\_oflag, linux\_termios::c\_oflag, LINUX\_NCC, LINUX\_NCCS, LINUX\_POSIX\_VDISABLE, and linux\_to\_bsd\_termios().

Referenced by linux\_ioctl\_termio().

Here is the call graph for this function:



**7.10.3.43 static void linux\_to\_bsd\_termios** (struct **linux\_termios** \* *lios*, struct **termios** \* *bios*)  
[static]

Definition at line 483 of file linux\_ioctl.c.

References linux\_termios::c\_cc, linux\_termios::c\_cflag, linux\_termios::c\_iflag, linux\_termios::c\_lflag, linux\_termios::c\_line, linux\_termios::c\_oflag, LINUX\_BRKINT, LINUX\_CBAUD, LINUX\_CLOCAL, LINUX\_CREAD, LINUX\_CRTSCTS, LINUX\_CSIZE, LINUX\_CSTOPB, LINUX\_ECHO, LINUX\_ECHOCTL, LINUX\_ECHOE, LINUX\_ECHOK, LINUX\_ECHOKE, LINUX\_ECHONL, LINUX\_ECHOPRT, LINUX\_FLUSHO, LINUX\_HUPCL, LINUX\_ICANON, LINUX\_ICRNL, LINUX\_IEXTEN, LINUX\_IGNBRK, LINUX\_IGNCR, LINUX\_IGNPAR, LINUX\_IMAXBEL, LINUX\_INLCR, LINUX\_INPCK, LINUX\_ISIG, LINUX\_ISTRIP, LINUX\_IXANY, LINUX\_IXOFF, LINUX\_IXON, LINUX\_NCCS, LINUX\_NOFLSH, LINUX\_ONLCR, LINUX\_OPOST, LINUX\_PARENB, LINUX\_PARMRK, LINUX\_PARODD, LINUX\_PENDIN, LINUX\_POSIX\_VDISABLE, linux\_to\_bsd\_speed(), LINUX\_TOSTOP, LINUX\_VDISCARD, LINUX\_VEOF, LINUX\_VEOL, LINUX\_VEOL2, LINUX\_VERASE, LINUX\_VINTR, LINUX\_VKILL, LINUX\_VLNEXT, LINUX\_VMIN, LINUX\_VQUIT, LINUX\_VREPRINT, LINUX\_VSTART, LINUX\_VSTOP, LINUX\_VSUSP, LINUX\_VTIME, LINUX\_VWERASE, LINUX\_XTABS, and sptab.

Referenced by linux\_ioctl\_termio(), and linux\_to\_bsd\_termio().

Here is the call graph for this function:



**7.10.3.44 static void set\_linux\_cdrom\_addr** (union **linux\_cdrom\_addr** \* *addr*, int *format*, int *lba*)  
[static]

Definition at line 1198 of file linux\_ioctl.c.

References linux\_cdrom\_addr::frame, linux\_cdrom\_addr::lba, LINUX\_CDROM\_MSF, linux\_cdrom\_addr::minute, linux\_cdrom\_addr::msf, and linux\_cdrom\_addr::second.

Referenced by linux\_ioctl\_cdrom().

#### 7.10.3.45 static TAILQ\_HEAD (handler\_element) [static]

Definition at line 130 of file linux\_ioctl.c.

### 7.10.4 Variable Documentation

#### 7.10.4.1 struct linux\_ioctl\_handler cdrom\_handler [static]

##### Initial value:

```
{ linux_ioctl_cdrom, LINUX_IOCTL_CDROM_MIN, LINUX_IOCTL_CDROM_MAX }
```

Definition at line 91 of file linux\_ioctl.c.

#### 7.10.4.2 struct linux\_ioctl\_handler console\_handler [static]

##### Initial value:

```
{ linux_ioctl_console, LINUX_IOCTL_CONSOLE_MIN, LINUX_IOCTL_CONSOLE_MAX }
```

Definition at line 95 of file linux\_ioctl.c.

#### 7.10.4.3 u\_int32\_t dirbits[4] = { IOC\_VOID, IOC\_IN, IOC\_OUT, IOC\_INOUT } [static]

Definition at line 1622 of file linux\_ioctl.c.

#### 7.10.4.4 struct linux\_ioctl\_handler disk\_handler [static]

##### Initial value:

```
{ linux_ioctl_disk, LINUX_IOCTL_DISK_MIN, LINUX_IOCTL_DISK_MAX }
```

Definition at line 99 of file linux\_ioctl.c.

#### 7.10.4.5 struct linux\_ioctl\_handler drm\_handler [static]

##### Initial value:

```
{ linux_ioctl_drm, LINUX_IOCTL_DRM_MIN, LINUX_IOCTL_DRM_MAX }
```

Definition at line 109 of file linux\_ioctl.c.

#### 7.10.4.6 struct linux\_ioctl\_handler hdio\_handler [static]

##### Initial value:

```
{ linux_ioctl_hdio, LINUX_IOCTL_HDIO_MIN, LINUX_IOCTL_HDIO_MAX }
```

Definition at line 97 of file linux\_ioctl.c.

**7.10.4.7 linux\_ioctl\_function\_t linux\_ioctl\_cdrom** [static]

Definition at line 79 of file linux\_ioctl.c.

**7.10.4.8 linux\_ioctl\_function\_t linux\_ioctl\_console** [static]

Definition at line 81 of file linux\_ioctl.c.

**7.10.4.9 linux\_ioctl\_function\_t linux\_ioctl\_disk** [static]

Definition at line 83 of file linux\_ioctl.c.

**7.10.4.10 linux\_ioctl\_function\_t linux\_ioctl\_drm** [static]

Definition at line 88 of file linux\_ioctl.c.

**7.10.4.11 linux\_ioctl\_function\_t linux\_ioctl\_hdio** [static]

Definition at line 82 of file linux\_ioctl.c.

**7.10.4.12 linux\_ioctl\_function\_t linux\_ioctl\_private** [static]

Definition at line 87 of file linux\_ioctl.c.

**7.10.4.13 linux\_ioctl\_function\_t linux\_ioctl\_socket** [static]

Definition at line 84 of file linux\_ioctl.c.

Referenced by linux\_ioctl\_private().

**7.10.4.14 linux\_ioctl\_function\_t linux\_ioctl\_sound** [static]

Definition at line 85 of file linux\_ioctl.c.

**7.10.4.15 linux\_ioctl\_function\_t linux\_ioctl\_special** [static]

Definition at line 89 of file linux\_ioctl.c.

Referenced by linux\_ioctl\_socket().

**7.10.4.16 linux\_ioctl\_function\_t linux\_ioctl\_termio** [static]

Definition at line 86 of file linux\_ioctl.c.

**7.10.4.17 linux\_ioctl\_function\_t linux\_ioctl\_vfat** [static]

Definition at line 80 of file linux\_ioctl.c.

**7.10.4.18 struct linux\_ioctl\_handler private\_handler** [static]**Initial value:**

```
{ linux_ioctl_private, LINUX_IOCTL_PRIVATE_MIN, LINUX_IOCTL_PRIVATE_MAX }
```

Definition at line 107 of file linux\_ioctl.c.

**7.10.4.19 struct linux\_ioctl\_handler socket\_handler** [static]**Initial value:**

```
{ linux_ioctl_socket, LINUX_IOCTL_SOCKET_MIN, LINUX_IOCTL_SOCKET_MAX }
```

Definition at line 101 of file linux\_ioctl.c.

**7.10.4.20 struct linux\_ioctl\_handler sound\_handler** [static]**Initial value:**

```
{ linux_ioctl_sound, LINUX_IOCTL_SOUND_MIN, LINUX_IOCTL_SOUND_MAX }
```

Definition at line 103 of file linux\_ioctl.c.

**7.10.4.21 struct speedtab sptab[]** [static]**Initial value:**

```
{
    { B0, LINUX_B0 }, { B50, LINUX_B50 },
    { B75, LINUX_B75 }, { B110, LINUX_B110 },
    { B134, LINUX_B134 }, { B150, LINUX_B150 },
    { B200, LINUX_B200 }, { B300, LINUX_B300 },
    { B600, LINUX_B600 }, { B1200, LINUX_B1200 },
    { B1800, LINUX_B1800 }, { B2400, LINUX_B2400 },
    { B4800, LINUX_B4800 }, { B9600, LINUX_B9600 },
    { B19200, LINUX_B19200 }, { B38400, LINUX_B38400 },
    { B57600, LINUX_B57600 }, { B115200, LINUX_B115200 },
    {-1, -1 }
}
```

Definition at line 293 of file linux\_ioctl.c.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.10.4.22 struct linux\_ioctl\_handler termio\_handler** [static]**Initial value:**

```
{ linux_ioctl_termio, LINUX_IOCTL_TERMIO_MIN, LINUX_IOCTL_TERMIO_MAX }
```

Definition at line 105 of file linux\_ioctl.c.

**7.10.4.23 struct linux\_ioctl\_handler vfat\_handler** [static]**Initial value:**

```
{ linux_ioctl_vfat, LINUX_IOCTL_VFAT_MIN, LINUX_IOCTL_VFAT_MAX }
```

Definition at line 93 of file linux\_ioctl.c.

## 7.11 /usr/src/sys/compat/linux/linux\_ioctl.h File Reference

This graph shows which files directly or indirectly include this file:



### Defines

- #define [LINUX\\_BLKROSET](#) 0x125d
- #define [LINUX\\_BLKROGET](#) 0x125e
- #define [LINUX\\_BLKRRPART](#) 0x125f
- #define [LINUX\\_BLKGETSIZE](#) 0x1260
- #define [LINUX\\_BLKFLSBUF](#) 0x1261
- #define [LINUX\\_BLKRASET](#) 0x1262
- #define [LINUX\\_BLKRASET](#) 0x1262
- #define [LINUX\\_BLKFRASET](#) 0x1263
- #define [LINUX\\_BLKFRASET](#) 0x1263
- #define [LINUX\\_BLKFRASET](#) 0x1264
- #define [LINUX\\_BLKFRASET](#) 0x1265
- #define [LINUX\\_BLKFRASET](#) 0x1265
- #define [LINUX\\_BLKSECTSET](#) 0x1266
- #define [LINUX\\_BLKSECTGET](#) 0x1267
- #define [LINUX\\_BLKSECTGET](#) 0x1267
- #define [LINUX\\_BLKSSZGET](#) 0x1268
- #define [LINUX\\_IOCTL\\_DISK\\_MIN](#) LINUX\_BLKROSET
- #define [LINUX\\_IOCTL\\_DISK\\_MAX](#) LINUX\_BLKSSZGET
- #define [LINUX\\_HDIO\\_GET\\_GEO](#) 0x0301
- #define [LINUX\\_HDIO\\_GET\\_IDENTITY](#) 0x030D
- #define [LINUX\\_HDIO\\_GET\\_GEO\\_BIG](#) 0x0330
- #define [LINUX\\_IOCTL\\_HDIO\\_MIN](#) LINUX\_HDIO\_GET\_GEO
- #define [LINUX\\_IOCTL\\_HDIO\\_MAX](#) LINUX\_HDIO\_GET\_GEO\_BIG
- #define [LINUX\\_CDROMPAUSE](#) 0x5301
- #define [LINUX\\_CDROMRESUME](#) 0x5302
- #define [LINUX\\_CDROMPLAYMSF](#) 0x5303
- #define [LINUX\\_CDROMPLAYTRKIND](#) 0x5304
- #define [LINUX\\_CDROMREADTOCHDR](#) 0x5305
- #define [LINUX\\_CDROMREADTOCENTRY](#) 0x5306
- #define [LINUX\\_CDROMSTOP](#) 0x5307
- #define [LINUX\\_CDROMSTART](#) 0x5308
- #define [LINUX\\_CDROMEJECT](#) 0x5309
- #define [LINUX\\_CDROMVOLCTRL](#) 0x530a
- #define [LINUX\\_CDROMSUBCHNL](#) 0x530b
- #define [LINUX\\_CDROMREADMODE2](#) 0x530c
- #define [LINUX\\_CDROMREADMODE1](#) 0x530d
- #define [LINUX\\_CDROMREADAUDIO](#) 0x530e
- #define [LINUX\\_CDROMEJECT\\_SW](#) 0x530f
- #define [LINUX\\_CDROMMULTISESSION](#) 0x5310
- #define [LINUX\\_CDROM\\_GET\\_UPC](#) 0x5311
- #define [LINUX\\_CDROMRESET](#) 0x5312
- #define [LINUX\\_CDROMVOLREAD](#) 0x5313
- #define [LINUX\\_CDROMREADDRAW](#) 0x5314
- #define [LINUX\\_CDROMREADCOOKED](#) 0x5315

- #define LINUX\_CDROMSEEK 0x5316
- #define LINUX\_CDROMPLAYBLK 0x5317
- #define LINUX\_CDROMREADALL 0x5318
- #define LINUX\_CDROMCLOSETRAY 0x5319
- #define LINUX\_CDROMLOADFROMSLOT 0x531a
- #define LINUX\_CDROMGETSPINDOWN 0x531d
- #define LINUX\_CDROMSETSPINDOWN 0x531e
- #define LINUX\_CDROM\_SET\_OPTIONS 0x5320
- #define LINUX\_CDROM\_CLEAR\_OPTIONS 0x5321
- #define LINUX\_CDROM\_SELECT\_SPEED 0x5322
- #define LINUX\_CDROM\_SELECT\_DISC 0x5323
- #define LINUX\_CDROM\_MEDIA\_CHANGED 0x5325
- #define LINUX\_CDROM\_DRIVE\_STATUS 0x5326
- #define LINUX\_CDROM\_DISC\_STATUS 0x5327
- #define LINUX\_CDROM\_CHANGER\_NSLOTS 0x5328
- #define LINUX\_CDROM\_LOCKDOOR 0x5329
- #define LINUX\_CDROM\_DEBUG 0x5330
- #define LINUX\_CDROM\_GET\_CAPABILITY 0x5331
- #define LINUX\_CDROMAUDIOBUFSIZ 0x5382
- #define LINUX\_DVD\_READ\_STRUCT 0x5390
- #define LINUX\_DVD\_WRITE\_STRUCT 0x5391
- #define LINUX\_DVD\_AUTH 0x5392
- #define LINUX\_CDROM\_SEND\_PACKET 0x5393
- #define LINUX\_CDROM\_NEXT\_WRITABLE 0x5394
- #define LINUX\_CDROM\_LAST\_WRITTEN 0x5395
- #define LINUX\_IOCTL\_CDROM\_MIN LINUX\_CDROMPAUSE
- #define LINUX\_IOCTL\_CDROM\_MAX LINUX\_CDROM\_LAST\_WRITTEN
- #define LINUX\_CDROM\_LBA 0x01
- #define LINUX\_CDROM\_MSF 0x02
- #define LINUX\_DVD\_LU\_SEND\_AGID 0
- #define LINUX\_DVD\_HOST\_SEND\_CHALLENGE 1
- #define LINUX\_DVD\_LU\_SEND\_KEY1 2
- #define LINUX\_DVD\_LU\_SEND\_CHALLENGE 3
- #define LINUX\_DVD\_HOST\_SEND\_KEY2 4
- #define LINUX\_DVD\_AUTH\_ESTABLISHED 5
- #define LINUX\_DVD\_AUTH\_FAILURE 6
- #define LINUX\_DVD\_LU\_SEND\_TITLE\_KEY 7
- #define LINUX\_DVD\_LU\_SEND\_ASF 8
- #define LINUX\_DVD\_INVALIDATE\_AGID 9
- #define LINUX\_DVD\_LU\_SEND\_RPC\_STATE 10
- #define LINUX\_DVD\_HOST\_SEND\_RPC\_STATE 11
- #define LINUX\_VFAT\_READDIR\_BOTH 0x7201
- #define LINUX\_IOCTL\_VFAT\_MIN LINUX\_VFAT\_READDIR\_BOTH
- #define LINUX\_IOCTL\_VFAT\_MAX LINUX\_VFAT\_READDIR\_BOTH
- #define LINUX\_KIOCSOUND 0x4B2F
- #define LINUX\_KDMKTONE 0x4B30
- #define LINUX\_KDGETLED 0x4B31
- #define LINUX\_KDSETLED 0x4B32
- #define LINUX\_KDSETMODE 0x4B3A
- #define LINUX\_KDGETMODE 0x4B3B



- #define [LINUX\\_KDGKBMODE](#) 0x4B44
- #define [LINUX\\_KDSKBMODE](#) 0x4B45
- #define [LINUX\\_VT\\_OPENQRY](#) 0x5600
- #define [LINUX\\_VT\\_GETMODE](#) 0x5601
- #define [LINUX\\_VT\\_SETMODE](#) 0x5602
- #define [LINUX\\_VT\\_GETSTATE](#) 0x5603
- #define [LINUX\\_VT\\_RELDISP](#) 0x5605
- #define [LINUX\\_VT\\_ACTIVATE](#) 0x5606
- #define [LINUX\\_VT\\_WAITACTIVE](#) 0x5607
- #define [LINUX\\_IOCTL\\_CONSOLE\\_MIN](#) LINUX\_KIOCSOUND
- #define [LINUX\\_IOCTL\\_CONSOLE\\_MAX](#) LINUX\_VT\_WAITACTIVE
- #define [LINUX\\_LED\\_SCR](#) 0x01
- #define [LINUX\\_LED\\_NUM](#) 0x02
- #define [LINUX\\_LED\\_CAP](#) 0x04
- #define [LINUX\\_KD\\_TEXT](#) 0x0
- #define [LINUX\\_KD\\_GRAPHICS](#) 0x1
- #define [LINUX\\_KD\\_TEXT0](#) 0x2
- #define [LINUX\\_KD\\_TEXT1](#) 0x3
- #define [LINUX\\_KBD\\_RAW](#) 0
- #define [LINUX\\_KBD\\_XLATE](#) 1
- #define [LINUX\\_KBD\\_MEDIUMRAW](#) 2
- #define [LINUX\\_FIOSETOWN](#) 0x8901
- #define [LINUX\\_SIOCSGRP](#) 0x8902
- #define [LINUX\\_FIOGETOWN](#) 0x8903
- #define [LINUX\\_SIOCGGRP](#) 0x8904
- #define [LINUX\\_SIOCATMARK](#) 0x8905
- #define [LINUX\\_SIOCGSTAMP](#) 0x8906
- #define [LINUX\\_SIOCGIFCONF](#) 0x8912
- #define [LINUX\\_SIOCGIFFLAGS](#) 0x8913
- #define [LINUX\\_SIOCGIFADDR](#) 0x8915
- #define [LINUX\\_SIOCSIFADDR](#) 0x8916
- #define [LINUX\\_SIOCGIFDSTADDR](#) 0x8917
- #define [LINUX\\_SIOCGIFBRDADDR](#) 0x8919
- #define [LINUX\\_SIOCGIFNETMASK](#) 0x891b
- #define [LINUX\\_SIOCSIFNETMASK](#) 0x891c
- #define [LINUX\\_SIOCGIFMTU](#) 0x8921
- #define [LINUX\\_SIOCSIFMTU](#) 0x8922
- #define [LINUX\\_SIOCSIFNAME](#) 0x8923
- #define [LINUX\\_SIOCSIFHWADDR](#) 0x8924
- #define [LINUX\\_SIOCGIFHWADDR](#) 0x8927
- #define [LINUX\\_SIOCADDMULTI](#) 0x8931
- #define [LINUX\\_SIOCDELMULTI](#) 0x8932
- #define [LINUX\\_IOCTL\\_SOCKET\\_MIN](#) LINUX\_FIOSETOWN
- #define [LINUX\\_IOCTL\\_SOCKET\\_MAX](#) LINUX\_SIOCDELMULTI
- #define [LINUX\\_SIOCDEVPRIVATE](#) 0x89F0
- #define [LINUX\\_IOCTL\\_PRIVATE\\_MIN](#) LINUX\_SIOCDEVPRIVATE
- #define [LINUX\\_IOCTL\\_PRIVATE\\_MAX](#) LINUX\_SIOCDEVPRIVATE+0xf
- #define [LINUX\\_SOUND\\_MIXER\\_WRITE\\_VOLUME](#) 0x4d00
- #define [LINUX\\_SOUND\\_MIXER\\_WRITE\\_BASS](#) 0x4d01
- #define [LINUX\\_SOUND\\_MIXER\\_WRITE\\_TREBLE](#) 0x4d02

- #define LINUX\_SOUND\_MIXER\_WRITE\_SYNTH 0x4d03
- #define LINUX\_SOUND\_MIXER\_WRITE\_PCM 0x4d04
- #define LINUX\_SOUND\_MIXER\_WRITE\_SPEAKER 0x4d05
- #define LINUX\_SOUND\_MIXER\_WRITE\_LINE 0x4d06
- #define LINUX\_SOUND\_MIXER\_WRITE\_MIC 0x4d07
- #define LINUX\_SOUND\_MIXER\_WRITE\_CD 0x4d08
- #define LINUX\_SOUND\_MIXER\_WRITE\_IMIX 0x4d09
- #define LINUX\_SOUND\_MIXER\_WRITE\_ALTPCM 0x4d0A
- #define LINUX\_SOUND\_MIXER\_WRITE\_RECLEV 0x4d0B
- #define LINUX\_SOUND\_MIXER\_WRITE\_IGAIN 0x4d0C
- #define LINUX\_SOUND\_MIXER\_WRITE\_OGAIN 0x4d0D
- #define LINUX\_SOUND\_MIXER\_WRITE\_LINE1 0x4d0E
- #define LINUX\_SOUND\_MIXER\_WRITE\_LINE2 0x4d0F
- #define LINUX\_SOUND\_MIXER\_WRITE\_LINE3 0x4d10
- #define LINUX\_SOUND\_MIXER\_INFO 0x4d65
- #define LINUX\_OSS\_GETVERSION 0x4d76
- #define LINUX\_SOUND\_MIXER\_READ\_STERODEVS 0x4dfb
- #define LINUX\_SOUND\_MIXER\_READ\_RECMASK 0x4dfd
- #define LINUX\_SOUND\_MIXER\_READ\_DEVMASK 0x4dfe
- #define LINUX\_SOUND\_MIXER\_WRITE\_RECSRC 0x4dff
- #define LINUX\_SNDCTL\_DSP\_RESET 0x5000
- #define LINUX\_SNDCTL\_DSP\_SYNC 0x5001
- #define LINUX\_SNDCTL\_DSP\_SPEED 0x5002
- #define LINUX\_SNDCTL\_DSP\_STEREO 0x5003
- #define LINUX\_SNDCTL\_DSP\_GETBLKSIZE 0x5004
- #define LINUX\_SNDCTL\_DSP\_SETBLKSIZE LINUX\_SNDCTL\_DSP\_GETBLKSIZE
- #define LINUX\_SNDCTL\_DSP\_SETFMT 0x5005
- #define LINUX\_SOUND\_PCM\_WRITE\_CHANNELS 0x5006
- #define LINUX\_SOUND\_PCM\_WRITE\_FILTER 0x5007
- #define LINUX\_SNDCTL\_DSP\_POST 0x5008
- #define LINUX\_SNDCTL\_DSP\_SUBDIVIDE 0x5009
- #define LINUX\_SNDCTL\_DSP\_SETFRAGMENT 0x500A
- #define LINUX\_SNDCTL\_DSP\_GETFMTS 0x500B
- #define LINUX\_SNDCTL\_DSP\_GETOSPACE 0x500C
- #define LINUX\_SNDCTL\_DSP\_GETISPACE 0x500D
- #define LINUX\_SNDCTL\_DSP\_NONBLOCK 0x500E
- #define LINUX\_SNDCTL\_DSP\_GETCAPS 0x500F
- #define LINUX\_SNDCTL\_DSP\_GETTRIGGER 0x5010
- #define LINUX\_SNDCTL\_DSP\_SETTRIGGER LINUX\_SNDCTL\_DSP\_GETTRIGGER
- #define LINUX\_SNDCTL\_DSP\_GETIPTR 0x5011
- #define LINUX\_SNDCTL\_DSP\_GETOPTR 0x5012
- #define LINUX\_SNDCTL\_DSP\_SETDUPLEX 0x5016
- #define LINUX\_SNDCTL\_DSP\_GETODELAY 0x5017
- #define LINUX\_SNDCTL\_SEQ\_RESET 0x5100
- #define LINUX\_SNDCTL\_SEQ\_SYNC 0x5101
- #define LINUX\_SNDCTL\_SYNTH\_INFO 0x5102
- #define LINUX\_SNDCTL\_SEQ\_CTRLRATE 0x5103
- #define LINUX\_SNDCTL\_SEQ\_GETOUTCOUNT 0x5104
- #define LINUX\_SNDCTL\_SEQ\_GETINCOUNT 0x5105
- #define LINUX\_SNDCTL\_SEQ\_PERCMODE 0x5106

- #define [LINUX\\_SNDCTL\\_FM\\_LOAD\\_INSTR](#) 0x5107
- #define [LINUX\\_SNDCTL\\_SEQ\\_TESTMIDI](#) 0x5108
- #define [LINUX\\_SNDCTL\\_SEQ\\_RESETSAMPLES](#) 0x5109
- #define [LINUX\\_SNDCTL\\_SEQ\\_NRSYNTHS](#) 0x510A
- #define [LINUX\\_SNDCTL\\_SEQ\\_NRMIDIS](#) 0x510B
- #define [LINUX\\_SNDCTL\\_MIDI\\_INFO](#) 0x510C
- #define [LINUX\\_SNDCTL\\_SEQ\\_TRESHOLD](#) 0x510D
- #define [LINUX\\_SNDCTL\\_SYNTH\\_MEMAVL](#) 0x510E
- #define [LINUX\\_IOCTL\\_SOUND\\_MIN](#) LINUX\_SOUND\_MIXER\_WRITE\_VOLUME
- #define [LINUX\\_IOCTL\\_SOUND\\_MAX](#) LINUX\_SNDCTL\_SYNTH\_MEMAVL
- #define [LINUX\\_TCGETS](#) 0x5401
- #define [LINUX\\_TCSETS](#) 0x5402
- #define [LINUX\\_TCSETSW](#) 0x5403
- #define [LINUX\\_TCSETSF](#) 0x5404
- #define [LINUX\\_TCGETA](#) 0x5405
- #define [LINUX\\_TCSETA](#) 0x5406
- #define [LINUX\\_TCSETAW](#) 0x5407
- #define [LINUX\\_TCSETAF](#) 0x5408
- #define [LINUX\\_TCSBRK](#) 0x5409
- #define [LINUX\\_TCXONC](#) 0x540A
- #define [LINUX\\_TCFLSH](#) 0x540B
- #define [LINUX\\_TIOCEXCL](#) 0x540C
- #define [LINUX\\_TIOCNXCL](#) 0x540D
- #define [LINUX\\_TIOCSCTTY](#) 0x540E
- #define [LINUX\\_TIOCGPRP](#) 0x540F
- #define [LINUX\\_TIOCSGRP](#) 0x5410
- #define [LINUX\\_TIOCOUTQ](#) 0x5411
- #define [LINUX\\_TIOCSTI](#) 0x5412
- #define [LINUX\\_TIOCGWINSZ](#) 0x5413
- #define [LINUX\\_TIOCSWINSZ](#) 0x5414
- #define [LINUX\\_TIOCMGET](#) 0x5415
- #define [LINUX\\_TIOCMBIS](#) 0x5416
- #define [LINUX\\_TIOCMBIC](#) 0x5417
- #define [LINUX\\_TIOCMSET](#) 0x5418
- #define [LINUX\\_TIOCGSOFTCAR](#) 0x5419
- #define [LINUX\\_TIOCSSOFTCAR](#) 0x541A
- #define [LINUX\\_FIONREAD](#) 0x541B
- #define [LINUX\\_TIOCINQ](#) FIONREAD
- #define [LINUX\\_TIOCLINUX](#) 0x541C
- #define [LINUX\\_TIOCCONS](#) 0x541D
- #define [LINUX\\_TIOCGSERIAL](#) 0x541E
- #define [LINUX\\_TIOCSSERIAL](#) 0x541F
- #define [LINUX\\_TIOCPKT](#) 0x5420
- #define [LINUX\\_FIONBIO](#) 0x5421
- #define [LINUX\\_TIOCNOTTY](#) 0x5422
- #define [LINUX\\_TIOCSETD](#) 0x5423
- #define [LINUX\\_TIOCGETD](#) 0x5424
- #define [LINUX\\_TCSBRKP](#) 0x5425
- #define [LINUX\\_TIOCTTYGSTRUCT](#) 0x5426
- #define [LINUX\\_TIOCSBRK](#) 0x5427

- #define `LINUX_TIOCCBRK` 0x5428
- #define `LINUX_TIOCGPTN` 0x5430
- #define `LINUX_FIONCLEX` 0x5450
- #define `LINUX_FIOCLEX` 0x5451
- #define `LINUX_FIOASYNC` 0x5452
- #define `LINUX_TIOCSERCONFIG` 0x5453
- #define `LINUX_TIOCSERGWILD` 0x5454
- #define `LINUX_TIOCSERSWILD` 0x5455
- #define `LINUX_TIOCGLKTRMIOS` 0x5456
- #define `LINUX_TIOCSLKTRMIOS` 0x5457
- #define `LINUX_IOCTL_TERMIO_MIN` `LINUX_TCGETS`
- #define `LINUX_IOCTL_TERMIO_MAX` `LINUX_TIOCSLKTRMIOS`
- #define `LINUX_TCOOFF` 0
- #define `LINUX_TCOON` 1
- #define `LINUX_TCIOFF` 2
- #define `LINUX_TCION` 3
- #define `LINUX_TCIFLUSH` 0
- #define `LINUX_TCOFLUSH` 1
- #define `LINUX_TCIOFLUSH` 2
- #define `LINUX_N_TTY` 0
- #define `LINUX_N_SLIP` 1
- #define `LINUX_N_MOUSE` 2
- #define `LINUX_N_PPP` 3
- #define `LINUX_VINTR` 0
- #define `LINUX_VQUIT` 1
- #define `LINUX_VERASE` 2
- #define `LINUX_VKILL` 3
- #define `LINUX_VEOF` 4
- #define `LINUX_VTIME` 5
- #define `LINUX_VMIN` 6
- #define `LINUX_VSWTC` 7
- #define `LINUX_NCC` 8
- #define `LINUX_VSTART` 8
- #define `LINUX_VSTOP` 9
- #define `LINUX_VSUSP` 10
- #define `LINUX_VEOL` 11
- #define `LINUX_VREPRINT` 12
- #define `LINUX_VDISCARD` 13
- #define `LINUX_VWERASE` 14
- #define `LINUX_VLNEXT` 15
- #define `LINUX_VEOL2` 16
- #define `LINUX_NCCS` 19
- #define `LINUX_POSIX_VDISABLE` `'\0'`
- #define `LINUX_IGNBRK` 0x0000001
- #define `LINUX_BRKINT` 0x0000002
- #define `LINUX_IGNPAR` 0x0000004
- #define `LINUX_PARMRK` 0x0000008
- #define `LINUX_INPCK` 0x0000010
- #define `LINUX_ISTRIP` 0x0000020
- #define `LINUX_INLCR` 0x0000040

- #define `LINUX_IGNCR` 0x0000080
- #define `LINUX_ICRNL` 0x0000100
- #define `LINUX_IUCLC` 0x0000200
- #define `LINUX_IXON` 0x0000400
- #define `LINUX_IXANY` 0x0000800
- #define `LINUX_IXOFF` 0x0001000
- #define `LINUX_IMAXBEL` 0x0002000
- #define `LINUX_OPOST` 0x0000001
- #define `LINUX_OLCUC` 0x0000002
- #define `LINUX_ONLCR` 0x0000004
- #define `LINUX_OCRNL` 0x0000008
- #define `LINUX_ONOCR` 0x0000010
- #define `LINUX_ONLRET` 0x0000020
- #define `LINUX_OFILL` 0x0000040
- #define `LINUX_OFDEL` 0x0000080
- #define `LINUX_NLDLY` 0x0000100
- #define `LINUX_NL0` 0x0000000
- #define `LINUX_NL1` 0x0000100
- #define `LINUX_CRDLY` 0x0000600
- #define `LINUX_CR0` 0x0000000
- #define `LINUX_CR1` 0x0000200
- #define `LINUX_CR2` 0x0000400
- #define `LINUX_CR3` 0x0000600
- #define `LINUX_TABDLY` 0x0001800
- #define `LINUX_TAB0` 0x0000000
- #define `LINUX_TAB1` 0x0000800
- #define `LINUX_TAB2` 0x0001000
- #define `LINUX_TAB3` 0x0001800
- #define `LINUX_XTABS` 0x0001800
- #define `LINUX_BSDLY` 0x0002000
- #define `LINUX_BS0` 0x0000000
- #define `LINUX_BS1` 0x0002000
- #define `LINUX_VTDLY` 0x0004000
- #define `LINUX_VT0` 0x0000000
- #define `LINUX_VT1` 0x0004000
- #define `LINUX_FFDLY` 0x0008000
- #define `LINUX_FF0` 0x0000000
- #define `LINUX_FF1` 0x0008000
- #define `LINUX_CBAUD` 0x000100f
- #define `LINUX_B0` 0x0000000
- #define `LINUX_B50` 0x0000001
- #define `LINUX_B75` 0x0000002
- #define `LINUX_B110` 0x0000003
- #define `LINUX_B134` 0x0000004
- #define `LINUX_B150` 0x0000005
- #define `LINUX_B200` 0x0000006
- #define `LINUX_B300` 0x0000007
- #define `LINUX_B600` 0x0000008
- #define `LINUX_B1200` 0x0000009
- #define `LINUX_B1800` 0x000000a

- #define LINUX\_B2400 0x0000000b
- #define LINUX\_B4800 0x0000000c
- #define LINUX\_B9600 0x0000000d
- #define LINUX\_B19200 0x0000000e
- #define LINUX\_B38400 0x0000000f
- #define LINUX\_EXT\_A LINUX\_B19200
- #define LINUX\_EXT\_B LINUX\_B38400
- #define LINUX\_CBAUDEX 0x00001000
- #define LINUX\_B57600 0x00001001
- #define LINUX\_B115200 0x00001002
- #define LINUX\_CSIZE 0x00000030
- #define LINUX\_CS5 0x00000000
- #define LINUX\_CS6 0x00000010
- #define LINUX\_CS7 0x00000020
- #define LINUX\_CS8 0x00000030
- #define LINUX\_CSTOPB 0x00000040
- #define LINUX\_CREAD 0x00000080
- #define LINUX\_PAREN\_B 0x00000100
- #define LINUX\_PARODD 0x00000200
- #define LINUX\_HUPCL 0x00000400
- #define LINUX\_CLOCAL 0x00000800
- #define LINUX\_CRTSCTS 0x80000000
- #define LINUX\_ISIG 0x00000001
- #define LINUX\_ICANON 0x00000002
- #define LINUX\_XCASE 0x00000004
- #define LINUX\_ECHO 0x00000008
- #define LINUX\_ECHOE 0x00000010
- #define LINUX\_ECHOK 0x00000020
- #define LINUX\_ECHONL 0x00000040
- #define LINUX\_NOFLSH 0x00000080
- #define LINUX\_TOSTOP 0x00000100
- #define LINUX\_ECHOCTL 0x00000200
- #define LINUX\_ECHOPRT 0x00000400
- #define LINUX\_ECHOKE 0x00000800
- #define LINUX\_FLUSHO 0x00001000
- #define LINUX\_PENDIN 0x00002000
- #define LINUX\_IEXTEN 0x00008000
- #define LINUX\_ASYNC\_CLOSING\_WAIT\_INF 0
- #define LINUX\_ASYNC\_CLOSING\_WAIT\_NONE 65535
- #define LINUX\_PORT\_UNKNOWN 0
- #define LINUX\_PORT\_8250 1
- #define LINUX\_PORT\_16450 2
- #define LINUX\_PORT\_16550 3
- #define LINUX\_PORT\_16550A 4
- #define LINUX\_PORT\_CIRRUS 5
- #define LINUX\_PORT\_16650 6
- #define LINUX\_PORT\_MAX 6
- #define LINUX\_ASYNC\_HUP\_NOTIFY 0x0001
- #define LINUX\_ASYNC\_FOURPORT 0x0002
- #define LINUX\_ASYNC\_SAK 0x0004

- #define [LINUX\\_ASYNC\\_SPLIT\\_TERMIOS](#) 0x0008
- #define [LINUX\\_ASYNC\\_SPD\\_MASK](#) 0x0030
- #define [LINUX\\_ASYNC\\_SPD\\_HI](#) 0x0010
- #define [LINUX\\_ASYNC\\_SPD\\_VHI](#) 0x0020
- #define [LINUX\\_ASYNC\\_SPD\\_CUST](#) 0x0030
- #define [LINUX\\_ASYNC\\_SKIP\\_TEST](#) 0x0040
- #define [LINUX\\_ASYNC\\_AUTO\\_IRQ](#) 0x0080
- #define [LINUX\\_ASYNC\\_SESSION\\_LOCKOUT](#) 0x0100
- #define [LINUX\\_ASYNC\\_PGRP\\_LOCKOUT](#) 0x0200
- #define [LINUX\\_ASYNC\\_CALLOUT\\_NOHUP](#) 0x0400
- #define [LINUX\\_ASYNC\\_FLAGS](#) 0x0FFF
- #define [LINUX\\_IOCTL\\_DRM\\_MIN](#) 0x6400
- #define [LINUX\\_IOCTL\\_DRM\\_MAX](#) 0x64ff

## Functions

- int [linux\\_ifname](#) (struct ifnet \*, char \*, size\_t)

### 7.11.1 Define Documentation

#### 7.11.1.1 #define LINUX\_ASYNC\_AUTO\_IRQ 0x0080

Definition at line 524 of file linux\_ioctl.h.

#### 7.11.1.2 #define LINUX\_ASYNC\_CALLOUT\_NOHUP 0x0400

Definition at line 527 of file linux\_ioctl.h.

#### 7.11.1.3 #define LINUX\_ASYNC\_CLOSING\_WAIT\_INF 0

Definition at line 502 of file linux\_ioctl.h.

#### 7.11.1.4 #define LINUX\_ASYNC\_CLOSING\_WAIT\_NONE 65535

Definition at line 503 of file linux\_ioctl.h.

#### 7.11.1.5 #define LINUX\_ASYNC\_FLAGS 0x0FFF

Definition at line 528 of file linux\_ioctl.h.

#### 7.11.1.6 #define LINUX\_ASYNC\_FOURPORT 0x0002

Definition at line 516 of file linux\_ioctl.h.

#### 7.11.1.7 #define LINUX\_ASYNC\_HUP\_NOTIFY 0x0001

Definition at line 515 of file linux\_ioctl.h.

**7.11.1.8 #define LINUX\_ASYNC\_PGRP\_LOCKOUT 0x0200**

Definition at line 526 of file linux\_ioctl.h.

**7.11.1.9 #define LINUX\_ASYNC\_SAK 0x0004**

Definition at line 517 of file linux\_ioctl.h.

**7.11.1.10 #define LINUX\_ASYNC\_SESSION\_LOCKOUT 0x0100**

Definition at line 525 of file linux\_ioctl.h.

**7.11.1.11 #define LINUX\_ASYNC\_SKIP\_TEST 0x0040**

Definition at line 523 of file linux\_ioctl.h.

**7.11.1.12 #define LINUX\_ASYNC\_SPD\_CUST 0x0030**

Definition at line 522 of file linux\_ioctl.h.

**7.11.1.13 #define LINUX\_ASYNC\_SPD\_HI 0x0010**

Definition at line 520 of file linux\_ioctl.h.

**7.11.1.14 #define LINUX\_ASYNC\_SPD\_MASK 0x0030**

Definition at line 519 of file linux\_ioctl.h.

**7.11.1.15 #define LINUX\_ASYNC\_SPD\_VHI 0x0020**

Definition at line 521 of file linux\_ioctl.h.

**7.11.1.16 #define LINUX\_ASYNC\_SPLIT\_TERMIOS 0x0008**

Definition at line 518 of file linux\_ioctl.h.

**7.11.1.17 #define LINUX\_B0 0x00000000**

Definition at line 447 of file linux\_ioctl.h.

**7.11.1.18 #define LINUX\_B110 0x00000003**

Definition at line 450 of file linux\_ioctl.h.



**7.11.1.19 #define LINUX\_B115200 0x00001002**

Definition at line 468 of file linux\_ioctl.h.

**7.11.1.20 #define LINUX\_B1200 0x00000009**

Definition at line 456 of file linux\_ioctl.h.

**7.11.1.21 #define LINUX\_B134 0x00000004**

Definition at line 451 of file linux\_ioctl.h.

**7.11.1.22 #define LINUX\_B150 0x00000005**

Definition at line 452 of file linux\_ioctl.h.

**7.11.1.23 #define LINUX\_B1800 0x0000000a**

Definition at line 457 of file linux\_ioctl.h.

**7.11.1.24 #define LINUX\_B19200 0x0000000e**

Definition at line 461 of file linux\_ioctl.h.

**7.11.1.25 #define LINUX\_B200 0x00000006**

Definition at line 453 of file linux\_ioctl.h.

**7.11.1.26 #define LINUX\_B2400 0x0000000b**

Definition at line 458 of file linux\_ioctl.h.

**7.11.1.27 #define LINUX\_B300 0x00000007**

Definition at line 454 of file linux\_ioctl.h.

**7.11.1.28 #define LINUX\_B38400 0x0000000f**

Definition at line 462 of file linux\_ioctl.h.

**7.11.1.29 #define LINUX\_B4800 0x0000000c**

Definition at line 459 of file linux\_ioctl.h.

**7.11.1.30 #define LINUX\_B50 0x00000001**

Definition at line 448 of file linux\_ioctl.h.

**7.11.1.31 #define LINUX\_B57600 0x00001001**

Definition at line 467 of file linux\_ioctl.h.

**7.11.1.32 #define LINUX\_B600 0x00000008**

Definition at line 455 of file linux\_ioctl.h.

**7.11.1.33 #define LINUX\_B75 0x00000002**

Definition at line 449 of file linux\_ioctl.h.

**7.11.1.34 #define LINUX\_B9600 0x0000000d**

Definition at line 460 of file linux\_ioctl.h.

**7.11.1.35 #define LINUX\_BLKFLSBUF 0x1261**

Definition at line 41 of file linux\_ioctl.h.

**7.11.1.36 #define LINUX\_BLKFRAGET 0x1265**

Definition at line 45 of file linux\_ioctl.h.

**7.11.1.37 #define LINUX\_BLKFRASET 0x1264**

Definition at line 44 of file linux\_ioctl.h.

**7.11.1.38 #define LINUX\_BLKGETSIZE 0x1260**

Definition at line 40 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_disk().

**7.11.1.39 #define LINUX\_BLKRAGET 0x1263**

Definition at line 43 of file linux\_ioctl.h.

**7.11.1.40 #define LINUX\_BLKRASET 0x1262**

Definition at line 42 of file linux\_ioctl.h.

**7.11.1.41 #define LINUX\_BLKROGET 0x125e**

Definition at line 38 of file linux\_ioctl.h.

**7.11.1.42 #define LINUX\_BLKROSET 0x125d**

Definition at line 37 of file linux\_ioctl.h.

**7.11.1.43 #define LINUX\_BLKRRPART 0x125f**

Definition at line 39 of file linux\_ioctl.h.

**7.11.1.44 #define LINUX\_BLKSECTGET 0x1267**

Definition at line 47 of file linux\_ioctl.h.

**7.11.1.45 #define LINUX\_BLKSECTSET 0x1266**

Definition at line 46 of file linux\_ioctl.h.

**7.11.1.46 #define LINUX\_BLKSSZGET 0x1268**

Definition at line 48 of file linux\_ioctl.h.

**7.11.1.47 #define LINUX\_BRKINT 0x0000002**

Definition at line 393 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.48 #define LINUX\_BS0 0x0000000**

Definition at line 436 of file linux\_ioctl.h.

**7.11.1.49 #define LINUX\_BS1 0x0002000**

Definition at line 437 of file linux\_ioctl.h.

**7.11.1.50 #define LINUX\_BSDLY 0x0002000**

Definition at line 435 of file linux\_ioctl.h.

**7.11.1.51 #define LINUX\_CBAUD 0x0000100f**

Definition at line 445 of file linux\_ioctl.h.

Referenced by `linux_to_bsd_termios()`.

**7.11.1.52 #define LINUX\_CBAUDEX 0x00001000**

Definition at line 466 of file linux\_ioctl.h.

**7.11.1.53 #define LINUX\_CDROM\_CHANGER\_NSLOTS 0x5328**

Definition at line 101 of file linux\_ioctl.h.

**7.11.1.54 #define LINUX\_CDROM\_CLEAR\_OPTIONS 0x5321**

Definition at line 95 of file linux\_ioctl.h.

**7.11.1.55 #define LINUX\_CDROM\_DEBUG 0x5330**

Definition at line 103 of file linux\_ioctl.h.

**7.11.1.56 #define LINUX\_CDROM\_DISC\_STATUS 0x5327**

Definition at line 100 of file linux\_ioctl.h.

**7.11.1.57 #define LINUX\_CDROM\_DRIVE\_STATUS 0x5326**

Definition at line 99 of file linux\_ioctl.h.

**7.11.1.58 #define LINUX\_CDROM\_GET\_CAPABILITY 0x5331**

Definition at line 104 of file linux\_ioctl.h.

**7.11.1.59 #define LINUX\_CDROM\_GET\_UPC 0x5311**

Definition at line 82 of file linux\_ioctl.h.

**7.11.1.60 #define LINUX\_CDROM\_LAST\_WRITTEN 0x5395**

Definition at line 111 of file linux\_ioctl.h.

**7.11.1.61 #define LINUX\_CDROM\_LBA 0x01**

Definition at line 116 of file linux\_ioctl.h.

**7.11.1.62 #define LINUX\_CDROM\_LOCKDOOR 0x5329**

Definition at line 102 of file linux\_ioctl.h.

**7.11.1.63 #define LINUX\_CDROM\_MEDIA\_CHANGED 0x5325**

Definition at line 98 of file linux\_ioctl.h.

**7.11.1.64 #define LINUX\_CDROM\_MSF 0x02**

Definition at line 117 of file linux\_ioctl.h.

Referenced by set\_linux\_cdrom\_addr().

**7.11.1.65 #define LINUX\_CDROM\_NEXT\_WRITABLE 0x5394**

Definition at line 110 of file linux\_ioctl.h.

**7.11.1.66 #define LINUX\_CDROM\_SELECT\_DISC 0x5323**

Definition at line 97 of file linux\_ioctl.h.

**7.11.1.67 #define LINUX\_CDROM\_SELECT\_SPEED 0x5322**

Definition at line 96 of file linux\_ioctl.h.

**7.11.1.68 #define LINUX\_CDROM\_SEND\_PACKET 0x5393**

Definition at line 109 of file linux\_ioctl.h.

**7.11.1.69 #define LINUX\_CDROM\_SET\_OPTIONS 0x5320**

Definition at line 94 of file linux\_ioctl.h.

**7.11.1.70 #define LINUX\_CDROMAUDIOBUFSIZ 0x5382**

Definition at line 105 of file linux\_ioctl.h.

**7.11.1.71 #define LINUX\_CDROMCLOSETRAY 0x5319**

Definition at line 90 of file linux\_ioctl.h.

**7.11.1.72 #define LINUX\_CDROMEJECT 0x5309**

Definition at line 74 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_cdrom().

**7.11.1.73 #define LINUX\_CDROMEJECT\_SW 0x530f**

Definition at line 80 of file linux\_ioctl.h.

**7.11.1.74 #define LINUX\_CDROMGETSPINDOWN 0x531d**

Definition at line 92 of file linux\_ioctl.h.

**7.11.1.75 #define LINUX\_CDROMLOADFROMSLOT 0x531a**

Definition at line 91 of file linux\_ioctl.h.

**7.11.1.76 #define LINUX\_CDROMMULTISESSION 0x5310**

Definition at line 81 of file linux\_ioctl.h.

**7.11.1.77 #define LINUX\_CDROMPAUSE 0x5301**

Definition at line 66 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_cdrom().

**7.11.1.78 #define LINUX\_CDROMPLAYBLK 0x5317**

Definition at line 88 of file linux\_ioctl.h.

**7.11.1.79 #define LINUX\_CDROMPLAYMSF 0x5303**

Definition at line 68 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_cdrom().

**7.11.1.80 #define LINUX\_CDROMPLAYTRKIND 0x5304**

Definition at line 69 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_cdrom().

**7.11.1.81 #define LINUX\_CDROMREADALL 0x5318**

Definition at line 89 of file linux\_ioctl.h.

**7.11.1.82 #define LINUX\_CDROMREADAUDIO 0x530e**

Definition at line 79 of file linux\_ioctl.h.

**7.11.1.83 #define LINUX\_CDROMREADCOOKED 0x5315**

Definition at line 86 of file linux\_ioctl.h.

**7.11.1.84 #define LINUX\_CDROMREADMODE1 0x530d**

Definition at line 78 of file linux\_ioctl.h.

**7.11.1.85 #define LINUX\_CDROMREADMODE2 0x530c**

Definition at line 77 of file linux\_ioctl.h.

**7.11.1.86 #define LINUX\_CDROMREADDRAW 0x5314**

Definition at line 85 of file linux\_ioctl.h.

**7.11.1.87 #define LINUX\_CDROMREADTOCENTRY 0x5306**

Definition at line 71 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_cdrom().

**7.11.1.88 #define LINUX\_CDROMREADTOCHDR 0x5305**

Definition at line 70 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_cdrom().

**7.11.1.89 #define LINUX\_CDROMRESET 0x5312**

Definition at line 83 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_cdrom().

**7.11.1.90 #define LINUX\_CDROMRESUME 0x5302**

Definition at line 67 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_cdrom().

**7.11.1.91 #define LINUX\_CDROMSEEK 0x5316**

Definition at line 87 of file linux\_ioctl.h.

**7.11.1.92 #define LINUX\_CDROMSETSPINDOWN 0x531e**

Definition at line 93 of file linux\_ioctl.h.

**7.11.1.93 #define LINUX\_CDROMSTART 0x5308**

Definition at line 73 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_cdrom().

**7.11.1.94 #define LINUX\_CDROMSTOP 0x5307**

Definition at line 72 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_cdrom().

**7.11.1.95 #define LINUX\_CDROMSUBCHNL 0x530b**

Definition at line 76 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_cdrom().

**7.11.1.96 #define LINUX\_CDROMVOLCTRL 0x530a**

Definition at line 75 of file linux\_ioctl.h.

**7.11.1.97 #define LINUX\_CDROMVOLREAD 0x5313**

Definition at line 84 of file linux\_ioctl.h.

**7.11.1.98 #define LINUX\_CLOCAL 0x00000800**

Definition at line 480 of file linux\_ioctl.h.

Referenced by bsd\_to\_linux\_termios(), and linux\_to\_bsd\_termios().

**7.11.1.99 #define LINUX\_CR0 0x00000000**

Definition at line 425 of file linux\_ioctl.h.

**7.11.1.100 #define LINUX\_CR1 0x0000200**

Definition at line 426 of file linux\_ioctl.h.

**7.11.1.101 #define LINUX\_CR2 0x0000400**

Definition at line 427 of file linux\_ioctl.h.

**7.11.1.102 #define LINUX\_CR3 0x0000600**

Definition at line 428 of file linux\_ioctl.h.

**7.11.1.103 #define LINUX\_CRDLY 0x0000600**

Definition at line 424 of file linux\_ioctl.h.



**7.11.1.104 #define LINUX\_CREAD 0x00000080**

Definition at line 476 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.105 #define LINUX\_CRTSCTS 0x80000000**

Definition at line 482 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.106 #define LINUX\_CS5 0x00000000**

Definition at line 471 of file linux\_ioctl.h.

**7.11.1.107 #define LINUX\_CS6 0x00000010**

Definition at line 472 of file linux\_ioctl.h.

**7.11.1.108 #define LINUX\_CS7 0x00000020**

Definition at line 473 of file linux\_ioctl.h.

**7.11.1.109 #define LINUX\_CS8 0x00000030**

Definition at line 474 of file linux\_ioctl.h.

**7.11.1.110 #define LINUX\_CSIZE 0x00000030**

Definition at line 470 of file linux\_ioctl.h.

Referenced by `linux_to_bsd_termios()`.

**7.11.1.111 #define LINUX\_CSTOPB 0x00000040**

Definition at line 475 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.112 #define LINUX\_DVD\_AUTH 0x5392**

Definition at line 108 of file linux\_ioctl.h.

Referenced by `linux_ioctl_cdrom()`.

**7.11.1.113 #define LINUX\_DVD\_AUTH\_ESTABLISHED 5**

Definition at line 124 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_dvd_authinfo()`.

**7.11.1.114 #define LINUX\_DVD\_AUTH\_FAILURE 6**

Definition at line 125 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_cdrom().

**7.11.1.115 #define LINUX\_DVD\_HOST\_SEND\_CHALLENGE 1**

Definition at line 120 of file linux\_ioctl.h.

Referenced by bsd\_to\_linux\_dvd\_authinfo(), and linux\_to\_bsd\_dvd\_authinfo().

**7.11.1.116 #define LINUX\_DVD\_HOST\_SEND\_KEY2 4**

Definition at line 123 of file linux\_ioctl.h.

Referenced by bsd\_to\_linux\_dvd\_authinfo(), linux\_ioctl\_cdrom(), and linux\_to\_bsd\_dvd\_authinfo().

**7.11.1.117 #define LINUX\_DVD\_HOST\_SEND\_RPC\_STATE 11**

Definition at line 130 of file linux\_ioctl.h.

Referenced by bsd\_to\_linux\_dvd\_authinfo(), and linux\_to\_bsd\_dvd\_authinfo().

**7.11.1.118 #define LINUX\_DVD\_INVALIDATE\_AGID 9**

Definition at line 128 of file linux\_ioctl.h.

Referenced by bsd\_to\_linux\_dvd\_authinfo(), and linux\_to\_bsd\_dvd\_authinfo().

**7.11.1.119 #define LINUX\_DVD\_LU\_SEND\_AGID 0**

Definition at line 119 of file linux\_ioctl.h.

Referenced by bsd\_to\_linux\_dvd\_authinfo(), and linux\_to\_bsd\_dvd\_authinfo().

**7.11.1.120 #define LINUX\_DVD\_LU\_SEND\_ASF 8**

Definition at line 127 of file linux\_ioctl.h.

Referenced by bsd\_to\_linux\_dvd\_authinfo(), and linux\_to\_bsd\_dvd\_authinfo().

**7.11.1.121 #define LINUX\_DVD\_LU\_SEND\_CHALLENGE 3**

Definition at line 122 of file linux\_ioctl.h.

Referenced by bsd\_to\_linux\_dvd\_authinfo(), and linux\_to\_bsd\_dvd\_authinfo().

**7.11.1.122 #define LINUX\_DVD\_LU\_SEND\_KEY1 2**

Definition at line 121 of file linux\_ioctl.h.

Referenced by bsd\_to\_linux\_dvd\_authinfo(), and linux\_to\_bsd\_dvd\_authinfo().

**7.11.1.123 #define LINUX\_DVD\_LU\_SEND\_RPC\_STATE 10**

Definition at line 129 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_dvd_authinfo()`, and `linux_to_bsd_dvd_authinfo()`.

**7.11.1.124 #define LINUX\_DVD\_LU\_SEND\_TITLE\_KEY 7**

Definition at line 126 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_dvd_authinfo()`, and `linux_to_bsd_dvd_authinfo()`.

**7.11.1.125 #define LINUX\_DVD\_READ\_STRUCT 0x5390**

Definition at line 106 of file linux\_ioctl.h.

Referenced by `linux_ioctl_cdrom()`.

**7.11.1.126 #define LINUX\_DVD\_WRITE\_STRUCT 0x5391**

Definition at line 107 of file linux\_ioctl.h.

**7.11.1.127 #define LINUX\_ECHO 0x00000008**

Definition at line 488 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.128 #define LINUX\_ECHOCTL 0x00000200**

Definition at line 494 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.129 #define LINUX\_ECHOE 0x00000010**

Definition at line 489 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.130 #define LINUX\_ECHOK 0x00000020**

Definition at line 490 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.131 #define LINUX\_ECHOKE 0x00000800**

Definition at line 496 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.132 #define LINUX\_ECHONL 0x00000040**

Definition at line 491 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.133 #define LINUX\_ECHOPRT 0x00000400**

Definition at line 495 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.134 #define LINUX\_EXTALINUX\_B19200**

Definition at line 463 of file linux\_ioctl.h.

**7.11.1.135 #define LINUX\_EXTB LINUX\_B38400**

Definition at line 464 of file linux\_ioctl.h.

**7.11.1.136 #define LINUX\_FF0 0x00000000**

Definition at line 442 of file linux\_ioctl.h.

**7.11.1.137 #define LINUX\_FF1 0x0008000**

Definition at line 443 of file linux\_ioctl.h.

**7.11.1.138 #define LINUX\_FFDLY 0x0008000**

Definition at line 441 of file linux\_ioctl.h.

**7.11.1.139 #define LINUX\_FIOASYNC 0x5452**

Definition at line 337 of file linux\_ioctl.h.

Referenced by `linux_ioctl_termio()`.

**7.11.1.140 #define LINUX\_FIOCLEX 0x5451**

Definition at line 336 of file linux\_ioctl.h.

Referenced by `linux_ioctl_termio()`.

**7.11.1.141 #define LINUX\_FIOGETOWN 0x8903**

Definition at line 180 of file linux\_ioctl.h.

Referenced by `linux_ioctl_socket()`.

**7.11.1.142 #define LINUX\_FIONBIO 0x5421**

Definition at line 322 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.143 #define LINUX\_FIONCLEX 0x5450**

Definition at line 335 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.144 #define LINUX\_FIONREAD 0x541B**

Definition at line 313 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.145 #define LINUX\_FIOSETOWN 0x8901**

Definition at line 178 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_socket().

**7.11.1.146 #define LINUX\_FLUSHO 0x00001000**

Definition at line 497 of file linux\_ioctl.h.

Referenced by bsd\_to\_linux\_termios(), and linux\_to\_bsd\_termios().

**7.11.1.147 #define LINUX\_HDIO\_GET\_GEO 0x0301**

Definition at line 56 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_hdio().

**7.11.1.148 #define LINUX\_HDIO\_GET\_GEO\_BIG 0x0330**

Definition at line 58 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_hdio().

**7.11.1.149 #define LINUX\_HDIO\_GET\_IDENTITY 0x030D**

Definition at line 57 of file linux\_ioctl.h.

**7.11.1.150 #define LINUX\_HUPCL 0x00000400**

Definition at line 479 of file linux\_ioctl.h.

Referenced by bsd\_to\_linux\_termios(), and linux\_to\_bsd\_termios().

**7.11.1.151 #define LINUX\_ICANON 0x00000002**

Definition at line 486 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.152 #define LINUX\_ICRNL 0x0000100**

Definition at line 400 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.153 #define LINUX\_IEXTEN 0x00008000**

Definition at line 499 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.154 #define LINUX\_IGNBRK 0x00000001**

Definition at line 392 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.155 #define LINUX\_IGNCR 0x00000080**

Definition at line 399 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.156 #define LINUX\_IGNPAR 0x00000004**

Definition at line 394 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.157 #define LINUX\_IMAXBEL 0x00002000**

Definition at line 407 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.158 #define LINUX\_INLCR 0x00000040**

Definition at line 398 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.159 #define LINUX\_INPCK 0x00000010**

Definition at line 396 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.160 #define LINUX\_IOCTL\_CDROM\_MAX LINUX\_CDROM\_LAST\_WRITTEN**

Definition at line 114 of file linux\_ioctl.h.

**7.11.1.161 #define LINUX\_IOCTL\_CDROM\_MIN LINUX\_CDROMPAUSE**

Definition at line 113 of file linux\_ioctl.h.

**7.11.1.162 #define LINUX\_IOCTL\_CONSOLE\_MAX LINUX\_VT\_WAITACTIVE**

Definition at line 160 of file linux\_ioctl.h.

**7.11.1.163 #define LINUX\_IOCTL\_CONSOLE\_MIN LINUX\_KIOCSOUND**

Definition at line 159 of file linux\_ioctl.h.

**7.11.1.164 #define LINUX\_IOCTL\_DISK\_MAX LINUX\_BLKSSZGET**

Definition at line 51 of file linux\_ioctl.h.

**7.11.1.165 #define LINUX\_IOCTL\_DISK\_MIN LINUX\_BLKROSET**

Definition at line 50 of file linux\_ioctl.h.

**7.11.1.166 #define LINUX\_IOCTL\_DRM\_MAX 0x64ff**

Definition at line 531 of file linux\_ioctl.h.

**7.11.1.167 #define LINUX\_IOCTL\_DRM\_MIN 0x6400**

Definition at line 530 of file linux\_ioctl.h.

**7.11.1.168 #define LINUX\_IOCTL\_HDIO\_MAX LINUX\_HDIO\_GET\_GEO\_BIG**

Definition at line 61 of file linux\_ioctl.h.

**7.11.1.169 #define LINUX\_IOCTL\_HDIO\_MIN LINUX\_HDIO\_GET\_GEO**

Definition at line 60 of file linux\_ioctl.h.

**7.11.1.170 #define LINUX\_IOCTL\_PRIVATE\_MAX LINUX\_SIOCDEVPRIVATE+0xf**

Definition at line 208 of file linux\_ioctl.h.

**7.11.1.171 #define LINUX\_IOCTL\_PRIVATE\_MIN LINUX\_SIOCDEVPRIVATE**

Definition at line 207 of file linux\_ioctl.h.

**7.11.1.172 #define LINUX\_IOCTL\_SOCKET\_MAX LINUX\_SIOCDELMULTI**

Definition at line 201 of file linux\_ioctl.h.

**7.11.1.173 #define LINUX\_IOCTL\_SOCKET\_MIN LINUX\_FIOSETOWN**

Definition at line 200 of file linux\_ioctl.h.

**7.11.1.174 #define LINUX\_IOCTL\_SOUND\_MAX LINUX\_SNDCTL\_SYNTH\_MEMAVL**

Definition at line 276 of file linux\_ioctl.h.

**7.11.1.175 #define LINUX\_IOCTL\_SOUND\_MIN LINUX\_SOUND\_MIXER\_WRITE\_VOLUME**

Definition at line 275 of file linux\_ioctl.h.

**7.11.1.176 #define LINUX\_IOCTL\_TERMIO\_MAX LINUX\_TIOCSLCKTRMIOS**

Definition at line 346 of file linux\_ioctl.h.

**7.11.1.177 #define LINUX\_IOCTL\_TERMIO\_MIN LINUX\_TCGETS**

Definition at line 345 of file linux\_ioctl.h.

**7.11.1.178 #define LINUX\_IOCTL\_VFAT\_MAX LINUX\_VFAT\_READDIR\_BOTH**

Definition at line 138 of file linux\_ioctl.h.

**7.11.1.179 #define LINUX\_IOCTL\_VFAT\_MIN LINUX\_VFAT\_READDIR\_BOTH**

Definition at line 137 of file linux\_ioctl.h.

**7.11.1.180 #define LINUX\_ISIG 0x00000001**

Definition at line 485 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.181 #define LINUX\_ISTRIP 0x00000020**

Definition at line 397 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.



**7.11.1.182 #define LINUX\_IUCLC 0x0000200**

Definition at line 402 of file linux\_ioctl.h.

**7.11.1.183 #define LINUX\_IXANY 0x0000800**

Definition at line 404 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.184 #define LINUX\_IXOFF 0x0001000**

Definition at line 405 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.185 #define LINUX\_IXON 0x0000400**

Definition at line 403 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.186 #define LINUX\_KBD\_MEDIUMRAW 2**

Definition at line 173 of file linux\_ioctl.h.

Referenced by `linux_ioctl_console()`.

**7.11.1.187 #define LINUX\_KBD\_RAW 0**

Definition at line 171 of file linux\_ioctl.h.

Referenced by `linux_ioctl_console()`.

**7.11.1.188 #define LINUX\_KBD\_XLATE 1**

Definition at line 172 of file linux\_ioctl.h.

Referenced by `linux_ioctl_console()`.

**7.11.1.189 #define LINUX\_KD\_GRAPHICS 0x1**

Definition at line 167 of file linux\_ioctl.h.

**7.11.1.190 #define LINUX\_KD\_TEXT 0x0**

Definition at line 166 of file linux\_ioctl.h.

**7.11.1.191 #define LINUX\_KD\_TEXT0 0x2**

Definition at line 168 of file linux\_ioctl.h.

**7.11.1.192 #define LINUX\_KD\_TEXT1 0x3**

Definition at line 169 of file linux\_ioctl.h.

**7.11.1.193 #define LINUX\_KDGETLED 0x4B31**

Definition at line 145 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_console().

**7.11.1.194 #define LINUX\_KDGETMODE 0x4B3B**

Definition at line 148 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_console().

**7.11.1.195 #define LINUX\_KDGKBMODE 0x4B44**

Definition at line 149 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_console().

**7.11.1.196 #define LINUX\_KDMKTONE 0x4B30**

Definition at line 144 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_console().

**7.11.1.197 #define LINUX\_KDSETLED 0x4B32**

Definition at line 146 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_console().

**7.11.1.198 #define LINUX\_KDSETMODE 0x4B3A**

Definition at line 147 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_console().

**7.11.1.199 #define LINUX\_KDSKBMODE 0x4B45**

Definition at line 150 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_console().

**7.11.1.200 #define LINUX\_KIOCSOUND 0x4B2F**

Definition at line 143 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_console().

**7.11.1.201 #define LINUX\_LED\_CAP 0x04**

Definition at line 164 of file linux\_ioctl.h.

**7.11.1.202 #define LINUX\_LED\_NUM 0x02**

Definition at line 163 of file linux\_ioctl.h.

**7.11.1.203 #define LINUX\_LED\_SCR 0x01**

Definition at line 162 of file linux\_ioctl.h.

**7.11.1.204 #define LINUX\_N\_MOUSE 2**

Definition at line 362 of file linux\_ioctl.h.

**7.11.1.205 #define LINUX\_N\_PPP 3**

Definition at line 363 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.206 #define LINUX\_N\_SLIP 1**

Definition at line 361 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.207 #define LINUX\_N\_TTY 0**

Definition at line 360 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.208 #define LINUX\_NCC 8**

Definition at line 374 of file linux\_ioctl.h.

Referenced by bsd\_to\_linux\_termio(), and linux\_to\_bsd\_termio().

**7.11.1.209 #define LINUX\_NCCS 19**

Definition at line 387 of file linux\_ioctl.h.

Referenced by bsd\_to\_linux\_termios(), linux\_to\_bsd\_termio(), and linux\_to\_bsd\_termios().

**7.11.1.210 #define LINUX\_NL0 0x0000000**

Definition at line 422 of file linux\_ioctl.h.

**7.11.1.211 #define LINUX\_NL1 0x0000100**

Definition at line 423 of file linux\_ioctl.h.

**7.11.1.212 #define LINUX\_NLDLY 0x0000100**

Definition at line 421 of file linux\_ioctl.h.

**7.11.1.213 #define LINUX\_NOFLSH 0x00000080**

Definition at line 492 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.214 #define LINUX\_OCRNL 0x0000008**

Definition at line 415 of file linux\_ioctl.h.

**7.11.1.215 #define LINUX\_OFDEL 0x0000080**

Definition at line 419 of file linux\_ioctl.h.

**7.11.1.216 #define LINUX\_OFILL 0x0000040**

Definition at line 418 of file linux\_ioctl.h.

**7.11.1.217 #define LINUX\_OLCUC 0x0000002**

Definition at line 412 of file linux\_ioctl.h.

**7.11.1.218 #define LINUX\_ONLCR 0x0000004**

Definition at line 413 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.219 #define LINUX\_ONLRET 0x0000020**

Definition at line 417 of file linux\_ioctl.h.

**7.11.1.220 #define LINUX\_ONOCR 0x0000010**

Definition at line 416 of file linux\_ioctl.h.

**7.11.1.221 #define LINUX\_OPOST 0x0000001**

Definition at line 410 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.222 #define LINUX\_OSS\_GETVERSION 0x4d76**

Definition at line 231 of file linux\_ioctl.h.

Referenced by `linux_ioctl_sound()`.

**7.11.1.223 #define LINUX\_PARENB 0x00000100**

Definition at line 477 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.224 #define LINUX\_PARMRK 0x0000008**

Definition at line 395 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.225 #define LINUX\_PARODD 0x00000200**

Definition at line 478 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.226 #define LINUX\_PENDIN 0x00002000**

Definition at line 498 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.227 #define LINUX\_PORT\_16450 2**

Definition at line 507 of file linux\_ioctl.h.

**7.11.1.228 #define LINUX\_PORT\_16550 3**

Definition at line 508 of file linux\_ioctl.h.

**7.11.1.229 #define LINUX\_PORT\_16550A 4**

Definition at line 509 of file linux\_ioctl.h.

Referenced by `linux_ioctl_termio()`.

**7.11.1.230 #define LINUX\_PORT\_16650 6**

Definition at line 511 of file linux\_ioctl.h.

**7.11.1.231 #define LINUX\_PORT\_8250 1**

Definition at line 506 of file linux\_ioctl.h.

**7.11.1.232 #define LINUX\_PORT\_CIRRUS 5**

Definition at line 510 of file linux\_ioctl.h.

**7.11.1.233 #define LINUX\_PORT\_MAX 6**

Definition at line 513 of file linux\_ioctl.h.

**7.11.1.234 #define LINUX\_PORT\_UNKNOWN 0**

Definition at line 505 of file linux\_ioctl.h.

**7.11.1.235 #define LINUX\_POSIX\_VDISABLE '\0'**

Definition at line 389 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, `linux_to_bsd_termio()`, and `linux_to_bsd_termios()`.

**7.11.1.236 #define LINUX\_SIOCADDMULTI 0x8931**

Definition at line 197 of file linux\_ioctl.h.

Referenced by `linux_ioctl_socket()`.

**7.11.1.237 #define LINUX\_SIOCATMARK 0x8905**

Definition at line 182 of file linux\_ioctl.h.

Referenced by `linux_ioctl_socket()`.

**7.11.1.238 #define LINUX\_SIOCDELMULTI 0x8932**

Definition at line 198 of file linux\_ioctl.h.

Referenced by `linux_ioctl_socket()`.

**7.11.1.239 #define LINUX\_SIOCDEVPRIVATE 0x89F0**

Definition at line 206 of file linux\_ioctl.h.

Referenced by `linux_ioctl_socket()`.

**7.11.1.240 #define LINUX\_SIOCGIFADDR 0x8915**

Definition at line 186 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_socket(), and linux\_ioctl\_special().

**7.11.1.241 #define LINUX\_SIOCGIFBRDADDR 0x8919**

Definition at line 189 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_socket().

**7.11.1.242 #define LINUX\_SIOCGIFCONF 0x8912**

Definition at line 184 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_socket().

**7.11.1.243 #define LINUX\_SIOCGIFDSTADDR 0x8917**

Definition at line 188 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_socket().

**7.11.1.244 #define LINUX\_SIOCGIFFLAGS 0x8913**

Definition at line 185 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_socket(), and linux\_ioctl\_special().

**7.11.1.245 #define LINUX\_SIOCGIFHWADDR 0x8927**

Definition at line 196 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_socket().

**7.11.1.246 #define LINUX\_SIOCGIFMTU 0x8921**

Definition at line 192 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_socket().

**7.11.1.247 #define LINUX\_SIOCGIFNETMASK 0x891b**

Definition at line 190 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_socket().

**7.11.1.248 #define LINUX\_SIOCGPGRP 0x8904**

Definition at line 181 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_socket().

**7.11.1.249 #define LINUX\_SIOCGSTAMP 0x8906**

Definition at line 183 of file linux\_ioctl.h.

**7.11.1.250 #define LINUX\_SIOCSIFADDR 0x8916**

Definition at line 187 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_socket(), and linux\_ioctl\_special().

**7.11.1.251 #define LINUX\_SIOCSIFHWADDR 0x8924**

Definition at line 195 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_socket().

**7.11.1.252 #define LINUX\_SIOCSIFMTU 0x8922**

Definition at line 193 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_socket().

**7.11.1.253 #define LINUX\_SIOCSIFNAME 0x8923**

Definition at line 194 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_socket().

**7.11.1.254 #define LINUX\_SIOCSIFNETMASK 0x891c**

Definition at line 191 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_socket().

**7.11.1.255 #define LINUX\_SIOCSPGRP 0x8902**

Definition at line 179 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_socket().

**7.11.1.256 #define LINUX\_SNDCTL\_DSP\_GETBLKSIZE 0x5004**

Definition at line 240 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.257 #define LINUX\_SNDCTL\_DSP\_GETCAPS 0x500F**

Definition at line 252 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().



**7.11.1.258 #define LINUX\_SNDCTL\_DSP\_GETFMTS 0x500B**

Definition at line 248 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.259 #define LINUX\_SNDCTL\_DSP\_GETIPTR 0x5011**

Definition at line 255 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.260 #define LINUX\_SNDCTL\_DSP\_GETISPACE 0x500D**

Definition at line 250 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.261 #define LINUX\_SNDCTL\_DSP\_GETODELAY 0x5017**

Definition at line 258 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.262 #define LINUX\_SNDCTL\_DSP\_GETOPTR 0x5012**

Definition at line 256 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.263 #define LINUX\_SNDCTL\_DSP\_GETOSPACE 0x500C**

Definition at line 249 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.264 #define LINUX\_SNDCTL\_DSP\_GETTRIGGER 0x5010**

Definition at line 253 of file linux\_ioctl.h.

**7.11.1.265 #define LINUX\_SNDCTL\_DSP\_NONBLOCK 0x500E**

Definition at line 251 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.266 #define LINUX\_SNDCTL\_DSP\_POST 0x5008**

Definition at line 245 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.267 #define LINUX\_SNDCTL\_DSP\_RESET 0x5000**

Definition at line 236 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.268 #define LINUX\_SNDCTL\_DSP\_SETBLKSIZE LINUX\_SNDCTL\_DSP\_-  
GETBLKSIZE**

Definition at line 241 of file linux\_ioctl.h.

**7.11.1.269 #define LINUX\_SNDCTL\_DSP\_SETDUPLEX 0x5016**

Definition at line 257 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.270 #define LINUX\_SNDCTL\_DSP\_SETFMT 0x5005**

Definition at line 242 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.271 #define LINUX\_SNDCTL\_DSP\_SETFRAGMENT 0x500A**

Definition at line 247 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.272 #define LINUX\_SNDCTL\_DSP\_SETTRIGGER LINUX\_SNDCTL\_DSP\_-  
GETTRIGGER**

Definition at line 254 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.273 #define LINUX\_SNDCTL\_DSP\_SPEED 0x5002**

Definition at line 238 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.274 #define LINUX\_SNDCTL\_DSP\_STEREO 0x5003**

Definition at line 239 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.275 #define LINUX\_SNDCTL\_DSP\_SUBDIVIDE 0x5009**

Definition at line 246 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

#### 7.11.1.276 #define LINUX\_SNDCTL\_DSP\_SYNC 0x5001

Definition at line 237 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

#### 7.11.1.277 #define LINUX\_SNDCTL\_FM\_LOAD\_INSTR 0x5107

Definition at line 266 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

#### 7.11.1.278 #define LINUX\_SNDCTL\_MIDI\_INFO 0x510C

Definition at line 271 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

#### 7.11.1.279 #define LINUX\_SNDCTL\_SEQ\_CTRLRATE 0x5103

Definition at line 262 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

#### 7.11.1.280 #define LINUX\_SNDCTL\_SEQ\_GETINCOUNT 0x5105

Definition at line 264 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

#### 7.11.1.281 #define LINUX\_SNDCTL\_SEQ\_GETOUTCOUNT 0x5104

Definition at line 263 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

#### 7.11.1.282 #define LINUX\_SNDCTL\_SEQ\_NRMIDIS 0x510B

Definition at line 270 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

#### 7.11.1.283 #define LINUX\_SNDCTL\_SEQ\_NRSYNTHS 0x510A

Definition at line 269 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.284 #define LINUX\_SNDCTL\_SEQ\_PERCMODE 0x5106**

Definition at line 265 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.285 #define LINUX\_SNDCTL\_SEQ\_RESET 0x5100**

Definition at line 259 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.286 #define LINUX\_SNDCTL\_SEQ\_RESETSAMPLES 0x5109**

Definition at line 268 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.287 #define LINUX\_SNDCTL\_SEQ\_SYNC 0x5101**

Definition at line 260 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.288 #define LINUX\_SNDCTL\_SEQ\_TESTMIDI 0x5108**

Definition at line 267 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.289 #define LINUX\_SNDCTL\_SEQ\_TRESHOLD 0x510D**

Definition at line 272 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.290 #define LINUX\_SNDCTL\_SYNTH\_INFO 0x5102**

Definition at line 261 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.291 #define LINUX\_SNDCTL\_SYNTH\_MEMAVL 0x510E**

Definition at line 273 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.292 #define LINUX\_SOUND\_MIXER\_INFO 0x4d65**

Definition at line 230 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.293 #define LINUX\_SOUND\_MIXER\_READ\_DEVMASK 0x4dfe**

Definition at line 234 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.294 #define LINUX\_SOUND\_MIXER\_READ\_RECMAK 0x4dfd**

Definition at line 233 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.295 #define LINUX\_SOUND\_MIXER\_READ\_STEREODEVS 0x4dfb**

Definition at line 232 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.296 #define LINUX\_SOUND\_MIXER\_WRITE\_ALTPCM 0x4d0A**

Definition at line 223 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.297 #define LINUX\_SOUND\_MIXER\_WRITE\_BASS 0x4d01**

Definition at line 214 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.298 #define LINUX\_SOUND\_MIXER\_WRITE\_CD 0x4d08**

Definition at line 221 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.299 #define LINUX\_SOUND\_MIXER\_WRITE\_IGAIN 0x4d0C**

Definition at line 225 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.300 #define LINUX\_SOUND\_MIXER\_WRITE\_IMIX 0x4d09**

Definition at line 222 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.301 #define LINUX\_SOUND\_MIXER\_WRITE\_LINE 0x4d06**

Definition at line 219 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.302 #define LINUX\_SOUND\_MIXER\_WRITE\_LINE1 0x4d0E**

Definition at line 227 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.303 #define LINUX\_SOUND\_MIXER\_WRITE\_LINE2 0x4d0F**

Definition at line 228 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.304 #define LINUX\_SOUND\_MIXER\_WRITE\_LINE3 0x4d10**

Definition at line 229 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.305 #define LINUX\_SOUND\_MIXER\_WRITE\_MIC 0x4d07**

Definition at line 220 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.306 #define LINUX\_SOUND\_MIXER\_WRITE\_OGAIN 0x4d0D**

Definition at line 226 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.307 #define LINUX\_SOUND\_MIXER\_WRITE\_PCM 0x4d04**

Definition at line 217 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.308 #define LINUX\_SOUND\_MIXER\_WRITE\_RECLEV 0x4d0B**

Definition at line 224 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.309 #define LINUX\_SOUND\_MIXER\_WRITE\_RECSRC 0x4dff**

Definition at line 235 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.310 #define LINUX\_SOUND\_MIXER\_WRITE\_SPEAKER 0x4d05**

Definition at line 218 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.311 #define LINUX\_SOUND\_MIXER\_WRITE\_SYNTH 0x4d03**

Definition at line 216 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.312 #define LINUX\_SOUND\_MIXER\_WRITE\_TREBLE 0x4d02**

Definition at line 215 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.313 #define LINUX\_SOUND\_MIXER\_WRITE\_VOLUME 0x4d00**

Definition at line 213 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.314 #define LINUX\_SOUND\_PCM\_WRITE\_CHANNELS 0x5006**

Definition at line 243 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.315 #define LINUX\_SOUND\_PCM\_WRITE\_FILTER 0x5007**

Definition at line 244 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_sound().

**7.11.1.316 #define LINUX\_TAB0 0x0000000**

Definition at line 430 of file linux\_ioctl.h.

**7.11.1.317 #define LINUX\_TAB1 0x0000800**

Definition at line 431 of file linux\_ioctl.h.

**7.11.1.318 #define LINUX\_TAB2 0x0001000**

Definition at line 432 of file linux\_ioctl.h.

**7.11.1.319 #define LINUX\_TAB3 0x0001800**

Definition at line 433 of file linux\_ioctl.h.

**7.11.1.320 #define LINUX\_TABDLY 0x0001800**

Definition at line 429 of file linux\_ioctl.h.

**7.11.1.321 #define LINUX\_TCFLSH 0x540B**

Definition at line 291 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.322 #define LINUX\_TCGETA 0x5405**

Definition at line 285 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.323 #define LINUX\_TCGETS 0x5401**

Definition at line 281 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.324 #define LINUX\_TCIFLUSH 0**

Definition at line 355 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.325 #define LINUX\_TCIOFF 2**

Definition at line 351 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.326 #define LINUX\_TCIOFLUSH 2**

Definition at line 357 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.327 #define LINUX\_TCION 3**

Definition at line 352 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.328 #define LINUX\_TCOFLUSH 1**

Definition at line 356 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.329 #define LINUX\_TCOOFF 0**

Definition at line 349 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().



**7.11.1.330 #define LINUX\_TCOON 1**

Definition at line 350 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.331 #define LINUX\_TCSBRK 0x5409**

Definition at line 289 of file linux\_ioctl.h.

**7.11.1.332 #define LINUX\_TCSBRKP 0x5425**

Definition at line 327 of file linux\_ioctl.h.

**7.11.1.333 #define LINUX\_TCSETA 0x5406**

Definition at line 286 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.334 #define LINUX\_TCSETAF 0x5408**

Definition at line 288 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.335 #define LINUX\_TCSETAW 0x5407**

Definition at line 287 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.336 #define LINUX\_TCSETS 0x5402**

Definition at line 282 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.337 #define LINUX\_TCSETSF 0x5404**

Definition at line 284 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.338 #define LINUX\_TCSETSW 0x5403**

Definition at line 283 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.339 #define LINUX\_TCXONC 0x540A**

Definition at line 290 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.340 #define LINUX\_TIOCCBRK 0x5428**

Definition at line 331 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.341 #define LINUX\_TIOCCONS 0x541D**

Definition at line 317 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.342 #define LINUX\_TIOCEXCL 0x540C**

Definition at line 293 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.343 #define LINUX\_TIOCGETD 0x5424**

Definition at line 326 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.344 #define LINUX\_TIOCGLCKTRMIOS 0x5456**

Definition at line 342 of file linux\_ioctl.h.

**7.11.1.345 #define LINUX\_TIOCGPGRP 0x540F**

Definition at line 297 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.346 #define LINUX\_TIOCGPTN 0x5430**

Definition at line 333 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.347 #define LINUX\_TIOCGSERIAL 0x541E**

Definition at line 318 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.348 #define LINUX\_TIOCGSOFTCAR 0x5419**

Definition at line 310 of file linux\_ioctl.h.

**7.11.1.349 #define LINUX\_TIOCGWINSZ 0x5413**

Definition at line 303 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.350 #define LINUX\_TIOCIQ FIONREAD**

Definition at line 315 of file linux\_ioctl.h.

**7.11.1.351 #define LINUX\_TIOCLINUX 0x541C**

Definition at line 316 of file linux\_ioctl.h.

**7.11.1.352 #define LINUX\_TIOCMBIC 0x5417**

Definition at line 308 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.353 #define LINUX\_TIOCMBIS 0x5416**

Definition at line 307 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.354 #define LINUX\_TIOCMGET 0x5415**

Definition at line 306 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.355 #define LINUX\_TIOCMSET 0x5418**

Definition at line 309 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.356 #define LINUX\_TIOCNOTTY 0x5422**

Definition at line 324 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.357 #define LINUX\_TIOCNXCL 0x540D**

Definition at line 294 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.358 #define LINUX\_TIOCCOUTQ 0x5411**

Definition at line 300 of file linux\_ioctl.h.

**7.11.1.359 #define LINUX\_TIOCPKT 0x5420**

Definition at line 320 of file linux\_ioctl.h.

**7.11.1.360 #define LINUX\_TIOCSBRK 0x5427**

Definition at line 330 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.361 #define LINUX\_TIOCSCTTY 0x540E**

Definition at line 295 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.362 #define LINUX\_TIOCSERCONFIG 0x5453**

Definition at line 339 of file linux\_ioctl.h.

**7.11.1.363 #define LINUX\_TIOCSERGWILD 0x5454**

Definition at line 340 of file linux\_ioctl.h.

**7.11.1.364 #define LINUX\_TIOCSERSWILD 0x5455**

Definition at line 341 of file linux\_ioctl.h.

**7.11.1.365 #define LINUX\_TIOCSETD 0x5423**

Definition at line 325 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.366 #define LINUX\_TIOCSLCKTRMIOS 0x5457**

Definition at line 343 of file linux\_ioctl.h.

**7.11.1.367 #define LINUX\_TIOCSPGRP 0x5410**

Definition at line 298 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.368 #define LINUX\_TIOCSSERIAL 0x541F**

Definition at line 319 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.369 #define LINUX\_TIOCSSOFTCAR 0x541A**

Definition at line 311 of file linux\_ioctl.h.

**7.11.1.370 #define LINUX\_TIOCSTI 0x5412**

Definition at line 301 of file linux\_ioctl.h.

**7.11.1.371 #define LINUX\_TIOCSWINSZ 0x5414**

Definition at line 304 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_termio().

**7.11.1.372 #define LINUX\_TIOCTTYGSTRUCT 0x5426**

Definition at line 328 of file linux\_ioctl.h.

**7.11.1.373 #define LINUX\_TOSTOP 0x00000100**

Definition at line 493 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.374 #define LINUX\_VDISCARD 13**

Definition at line 383 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.375 #define LINUX\_VEOF 4**

Definition at line 370 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.376 #define LINUX\_VEOL 11**

Definition at line 381 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.377 #define LINUX\_VEOL2 16**

Definition at line 386 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.378 #define LINUX\_VERASE 2**

Definition at line 368 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.379 #define LINUX\_VFAT\_READDIR\_BOTH 0x7201**

Definition at line 135 of file linux\_ioctl.h.

**7.11.1.380 #define LINUX\_VINTR 0**

Definition at line 366 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.381 #define LINUX\_VKILL 3**

Definition at line 369 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.382 #define LINUX\_VLNEXT 15**

Definition at line 385 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.383 #define LINUX\_VMIN 6**

Definition at line 372 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.384 #define LINUX\_VQUIT 1**

Definition at line 367 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.385 #define LINUX\_VREPRINT 12**

Definition at line 382 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.386 #define LINUX\_VSTART 8**

Definition at line 378 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.387 #define LINUX\_VSTOP 9**

Definition at line 379 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.388 #define LINUX\_VSUSP 10**

Definition at line 380 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.1.389 #define LINUX\_VSWTC 7**

Definition at line 373 of file linux\_ioctl.h.

**7.11.1.390 #define LINUX\_VT0 0x0000000**

Definition at line 439 of file linux\_ioctl.h.

**7.11.1.391 #define LINUX\_VT1 0x0004000**

Definition at line 440 of file linux\_ioctl.h.

**7.11.1.392 #define LINUX\_VT\_ACTIVATE 0x5606**

Definition at line 156 of file linux\_ioctl.h.

Referenced by `linux_ioctl_console()`.

**7.11.1.393 #define LINUX\_VT\_GETMODE 0x5601**

Definition at line 152 of file linux\_ioctl.h.

Referenced by `linux_ioctl_console()`.

**7.11.1.394 #define LINUX\_VT\_GETSTATE 0x5603**

Definition at line 154 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_console().

**7.11.1.395 #define LINUX\_VT\_OPENQRY 0x5600**

Definition at line 151 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_console().

**7.11.1.396 #define LINUX\_VT\_RELDISP 0x5605**

Definition at line 155 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_console().

**7.11.1.397 #define LINUX\_VT\_SETMODE 0x5602**

Definition at line 153 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_console().

**7.11.1.398 #define LINUX\_VT\_WAITACTIVE 0x5607**

Definition at line 157 of file linux\_ioctl.h.

Referenced by linux\_ioctl\_console().

**7.11.1.399 #define LINUX\_VTDLY 0x0004000**

Definition at line 438 of file linux\_ioctl.h.

**7.11.1.400 #define LINUX\_VTIME 5**

Definition at line 371 of file linux\_ioctl.h.

Referenced by bsd\_to\_linux\_termios(), and linux\_to\_bsd\_termios().

**7.11.1.401 #define LINUX\_VWERASE 14**

Definition at line 384 of file linux\_ioctl.h.

Referenced by bsd\_to\_linux\_termios(), and linux\_to\_bsd\_termios().

**7.11.1.402 #define LINUX\_XCASE 0x00000004**

Definition at line 487 of file linux\_ioctl.h.



**7.11.1.403 #define LINUX\_XTABS 0x0001800**

Definition at line 434 of file linux\_ioctl.h.

Referenced by `bsd_to_linux_termios()`, and `linux_to_bsd_termios()`.

**7.11.2 Function Documentation****7.11.2.1 int linux\_ifname (struct ifnet \*, char \*, size\_t)**

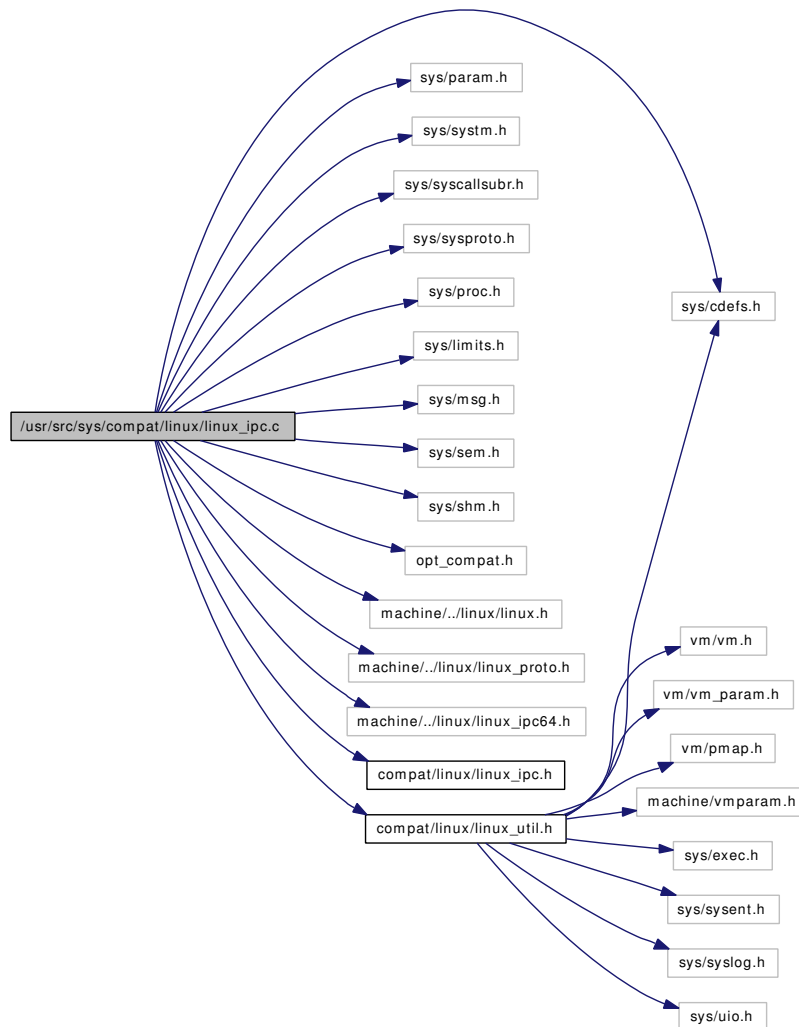
Definition at line 2029 of file linux\_ioctl.c.

References `IFP_IS_ETH`.

## 7.12 /usr/src/sys/compat/linux/linux\_ipc.c File Reference

```
#include <sys/cdefs.h>
#include <sys/param.h>
#include <sys/system.h>
#include <sys/syscallsubr.h>
#include <sys/sysproto.h>
#include <sys/proc.h>
#include <sys/limits.h>
#include <sys/msg.h>
#include <sys/sem.h>
#include <sys/shm.h>
#include "opt_compat.h"
#include <machine/./linux/linux.h>
#include <machine/./linux/linux_proto.h>
#include <machine/./linux/linux_ipc64.h>
#include <compat/linux/linux_ipc.h>
#include <compat/linux/linux_util.h>
```

Include dependency graph for linux\_ipc.c:



## Data Structures

- struct [l\\_seminfo](#)
- struct [l\\_shminfo](#)
- struct [l\\_shm\\_info](#)
- struct [l\\_msginfo](#)
- struct [l\\_ipc\\_perm](#)
- struct [l\\_msqid\\_ds](#)
- struct [l\\_semid\\_ds](#)
- struct [l\\_shmid\\_ds](#)

## Functions

- [\\_\\_FBSDID](#) ("\$FreeBSD: src/sys/compat/linux/linux\_ipc.c,v 1.54 2007/01/14 16:34:43 netchild Exp \$")
- static void [bsd\\_to\\_linux\\_shminfo](#) (struct shm\_info \*bpp, struct [l\\_shminfo](#) \*lpp)
- static void [bsd\\_to\\_linux\\_shm\\_info](#) (struct shm\_info \*bpp, struct [l\\_shm\\_info](#) \*lpp)

- static void [linux\\_to\\_bsd\\_ipc\\_perm](#) (struct [l\\_ipc\\_perm](#) \*lpp, struct ipc\_perm \*bpp)
- static void [bsd\\_to\\_linux\\_ipc\\_perm](#) (struct ipc\_perm \*bpb, struct [l\\_ipc\\_perm](#) \*lpp)
- static void [linux\\_to\\_bsd\\_semids](#) (struct [l\\_semids](#) \*lsp, struct semids \*bsp)
- static void [bsd\\_to\\_linux\\_semids](#) (struct semids \*bsp, struct [l\\_semids](#) \*lsp)
- static void [linux\\_to\\_bsd\\_shmids](#) (struct [l\\_shmids](#) \*lsp, struct shmids \*bsp)
- static void [bsd\\_to\\_linux\\_shmids](#) (struct shmids \*bsp, struct [l\\_shmids](#) \*lsp)
- static void [linux\\_to\\_bsd\\_msqid\\_ds](#) (struct [l\\_msqid\\_ds](#) \*lsp, struct msqid\_ds \*bsp)
- static void [bsd\\_to\\_linux\\_msqid\\_ds](#) (struct msqid\_ds \*bsp, struct [l\\_msqid\\_ds](#) \*lsp)
- static void [linux\\_ipc\\_perm\\_to\\_ipc64\\_perm](#) (struct [l\\_ipc\\_perm](#) \*in, struct l\_ipc64\_perm \*out)
- static int [linux\\_msqid\\_pullup](#) (l\_int ver, struct [l\\_msqid\\_ds](#) \*linux\_msqid, caddr\_t uaddr)
- static int [linux\\_msqid\\_pushdown](#) (l\_int ver, struct [l\\_msqid\\_ds](#) \*linux\_msqid, caddr\_t uaddr)
- static int [linux\\_semids\\_pullup](#) (l\_int ver, struct [l\\_semids](#) \*linux\_semids, caddr\_t uaddr)
- static int [linux\\_semids\\_pushdown](#) (l\_int ver, struct [l\\_semids](#) \*linux\_semids, caddr\_t uaddr)
- static int [linux\\_shmids\\_pullup](#) (l\_int ver, struct [l\\_shmids](#) \*linux\_shmids, caddr\_t uaddr)
- static int [linux\\_shmids\\_pushdown](#) (l\_int ver, struct [l\\_shmids](#) \*linux\_shmids, caddr\_t uaddr)
- static int [linux\\_shminfo\\_pushdown](#) (l\_int ver, struct [l\\_shminfo](#) \*linux\_shminfo, caddr\_t uaddr)
- int [linux\\_semop](#) (struct thread \*td, struct linux\_semop\_args \*args)
- int [linux\\_semget](#) (struct thread \*td, struct linux\_semget\_args \*args)
- int [linux\\_semctl](#) (struct thread \*td, struct linux\_semctl\_args \*args)
- int [linux\\_msgsnd](#) (struct thread \*td, struct linux\_msgsnd\_args \*args)
- int [linux\\_msgrcv](#) (struct thread \*td, struct linux\_msgrcv\_args \*args)
- int [linux\\_msgget](#) (struct thread \*td, struct linux\_msgget\_args \*args)
- int [linux\\_msgctl](#) (struct thread \*td, struct linux\_msgctl\_args \*args)
- int [linux\\_shmat](#) (struct thread \*td, struct linux\_shmat\_args \*args)
- int [linux\\_shmdt](#) (struct thread \*td, struct linux\_shmdt\_args \*args)
- int [linux\\_shmget](#) (struct thread \*td, struct linux\_shmget\_args \*args)
- int [linux\\_shmctl](#) (struct thread \*td, struct linux\_shmctl\_args \*args)
- [MODULE\\_DEPEND](#) (linux, sysvmsg, 1, 1, 1)
- [MODULE\\_DEPEND](#) (linux, sysvsem, 1, 1, 1)
- [MODULE\\_DEPEND](#) (linux, sysvshm, 1, 1, 1)

## 7.12.1 Function Documentation

### 7.12.1.1 [\\_\\_FBSDID](#) ("FreeBSD: src/sys/compat/linux/linux\_ipc.c, v 1.54 2007/01/14 16:34:43 netchild Exp \$")

### 7.12.1.2 [static void bsd\\_to\\_linux\\_ipc\\_perm](#) (struct ipc\_perm \* *bpp*, struct [l\\_ipc\\_perm](#) \* *lpp*) [static]

Definition at line 142 of file linux\_ipc.c.

References [l\\_ipc\\_perm::cgid](#), [l\\_ipc\\_perm::cuid](#), [l\\_ipc\\_perm::gid](#), [l\\_ipc\\_perm::key](#), [l\\_ipc\\_perm::mode](#), [l\\_ipc\\_perm::seq](#), and [l\\_ipc\\_perm::uid](#).

Referenced by [bsd\\_to\\_linux\\_msqid\\_ds\(\)](#), [bsd\\_to\\_linux\\_semids\\_ds\(\)](#), and [bsd\\_to\\_linux\\_shmids\\_ds\(\)](#).

### 7.12.1.3 `static void bsd_to_linux_msgqid_ds (struct msgqid_ds * bsp, struct l_msgqid_ds * lsp)` `[static]`

Definition at line 267 of file linux\_ipc.c.

References `bsd_to_linux_ipc_perm()`, `l_msgqid_ds::msg_cbytes`, `l_msgqid_ds::msg_ctime`, `l_msgqid_ds::msg_lrpid`, `l_msgqid_ds::msg_lspid`, `l_msgqid_ds::msg_perm`, `l_msgqid_ds::msg_qbytes`, `l_msgqid_ds::msg_qnum`, `l_msgqid_ds::msg_rtime`, and `l_msgqid_ds::msg_stime`.

Referenced by `linux_msgctl()`.

Here is the call graph for this function:



### 7.12.1.4 `static void bsd_to_linux_semids (struct semids * bsp, struct l_semids * lsp)` `[static]`

Definition at line 213 of file linux\_ipc.c.

References `bsd_to_linux_ipc_perm()`, `l_semids::sem_base`, `l_semids::sem_ctime`, `l_semids::sem_nsems`, `l_semids::sem_otime`, and `l_semids::sem_perm`.

Referenced by `linux_semctl()`.

Here is the call graph for this function:



### 7.12.1.5 `static void bsd_to_linux_shm_info (struct shm_info * bpp, struct l_shm_info * lpp)` `[static]`

Definition at line 108 of file linux\_ipc.c.

References `l_shm_info::shm_rss`, `l_shm_info::shm_swap`, `l_shm_info::shm_tot`, `l_shm_info::swap_attempts`, `l_shm_info::swap_successes`, and `l_shm_info::used_ids`.

Referenced by `linux_shmctl()`.

### 7.12.1.6 `static void bsd_to_linux_shmid_ds (struct shmid_ds * bsp, struct l_shmid_ds * lsp)` `[static]`

Definition at line 238 of file linux\_ipc.c.

References `bsd_to_linux_ipc_perm()`, `l_shmid_ds::private3`, `l_shmid_ds::shm_atime`, `l_shmid_ds::shm_cpuid`, `l_shmid_ds::shm_ctime`, `l_shmid_ds::shm_dtime`, `l_shmid_ds::shm_lpid`, `l_shmid_ds::shm_nattach`, `l_shmid_ds::shm_perm`, and `l_shmid_ds::shm_segsz`.

Referenced by `linux_shmctl()`.

Here is the call graph for this function:



**7.12.1.7** `static void bsd_to_linux_shminfo (struct shminfo * bpp, struct l_shminfo * lpp)`  
`[static]`

Definition at line 98 of file `linux_ipc.c`.

References `l_shminfo::shmall`, `l_shminfo::shmmax`, `l_shminfo::shmmin`, `l_shminfo::shmmni`, and `l_shminfo::shmseg`.

Referenced by `linux_shmctl()`.

**7.12.1.8** `static void linux_ipc_perm_to_ipc64_perm (struct l_ipc_perm * in, struct l_ipc64_perm * out)` `[static]`

Definition at line 281 of file `linux_ipc.c`.

References `l_ipc_perm::cgid`, `l_ipc_perm::cuid`, `l_ipc_perm::gid`, `l_ipc_perm::key`, `l_ipc_perm::mode`, `l_ipc_perm::seq`, and `l_ipc_perm::uid`.

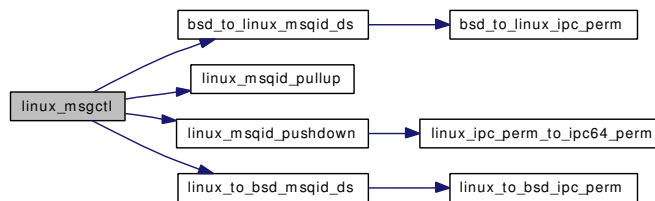
Referenced by `linux_msgqid_pushdown()`, `linux_semid_pushdown()`, and `linux_shmid_pushdown()`.

**7.12.1.9** `int linux_msgctl (struct thread * td, struct linux_msgctl_args * args)`

Definition at line 642 of file `linux_ipc.c`.

References `bsd_to_linux_msgqid_ds()`, `LINUX_IPC_64`, `linux_msgqid_pullup()`, `linux_msgqid_pushdown()`, `linux_to_bsd_msgqid_ds()`, `l_msginfo::msgmap`, `l_msginfo::msgmax`, `l_msginfo::msgmnb`, `l_msginfo::msgmni`, `l_msginfo::msgpool`, `l_msginfo::msgseg`, `l_msginfo::msgssz`, and `l_msginfo::msgtql`.

Here is the call graph for this function:



**7.12.1.10** `int linux_msgget (struct thread * td, struct linux_msgget_args * args)`

Definition at line 629 of file `linux_ipc.c`.

**7.12.1.11** `int linux_msgrcv (struct thread * td, struct linux_msgrcv_args * args)`

Definition at line 610 of file `linux_ipc.c`.

**7.12.1.12 int linux\_msgsnd (struct thread \* *td*, struct linux\_msgsnd\_args \* *args*)**

Definition at line 591 of file linux\_ipc.c.

**7.12.1.13 static int linux\_msgqid\_pullup (l\_int *ver*, struct l\_msgqid\_ds \* *linux\_msgqid*, caddr\_t *uaddr*)**  
[static]

Definition at line 295 of file linux\_ipc.c.

References LINUX\_IPC\_64.

Referenced by linux\_msgctl().

**7.12.1.14 static int linux\_msgqid\_pushdown (l\_int *ver*, struct l\_msgqid\_ds \* *linux\_msgqid*, caddr\_t *uaddr*)**  
[static]

Definition at line 322 of file linux\_ipc.c.

References LINUX\_IPC\_64, linux\_ipc\_perm\_to\_ipc64\_perm(), l\_msgqid\_ds::msg\_cbytes, l\_msgqid\_ds::msg\_ctime, l\_msgqid\_ds::msg\_lbytes, l\_msgqid\_ds::msg\_lqbytes, l\_msgqid\_ds::msg\_lrpid, l\_msgqid\_ds::msg\_lspid, l\_msgqid\_ds::msg\_perm, l\_msgqid\_ds::msg\_qbytes, l\_msgqid\_ds::msg\_qnum, l\_msgqid\_ds::msg\_rtime, and l\_msgqid\_ds::msg\_stime.

Referenced by linux\_msgctl().

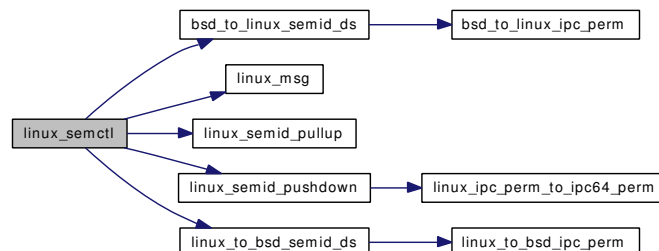
Here is the call graph for this function:

**7.12.1.15 int linux\_semctl (struct thread \* *td*, struct linux\_semctl\_args \* *args*)**

Definition at line 502 of file linux\_ipc.c.

References bsd\_to\_linux\_semids(), LINUX\_IPC\_64, linux\_msg(), linux\_semids\_pullup(), linux\_semids\_pushdown(), and linux\_to\_bsd\_semids().

Here is the call graph for this function:

**7.12.1.16 int linux\_semget (struct thread \* *td*, struct linux\_semget\_args \* *args*)**

Definition at line 485 of file linux\_ipc.c.

**7.12.1.17** `static int linux_semip_pullup (l_int ver, struct l_semip_ds * linux_semip, caddr_t uaddr)`  
 [static]

Definition at line 358 of file linux\_ipc.c.

References LINUX\_IPC\_64.

Referenced by linux\_semctl().

**7.12.1.18** `static int linux_semip_pushdown (l_int ver, struct l_semip_ds * linux_semip, caddr_t uaddr)` [static]

Definition at line 380 of file linux\_ipc.c.

References LINUX\_IPC\_64, linux\_ipc\_perm\_to\_ipc64\_perm(), l\_semip\_ds::sem\_ctime, l\_semip\_ds::sem\_nsems, l\_semip\_ds::sem\_otime, and l\_semip\_ds::sem\_perm.

Referenced by linux\_semctl().

Here is the call graph for this function:



**7.12.1.19** `int linux_semop (struct thread * td, struct linux_semop_args * args)`

Definition at line 470 of file linux\_ipc.c.

**7.12.1.20** `int linux_shmat (struct thread * td, struct linux_shmat_args * args)`

Definition at line 699 of file linux\_ipc.c.

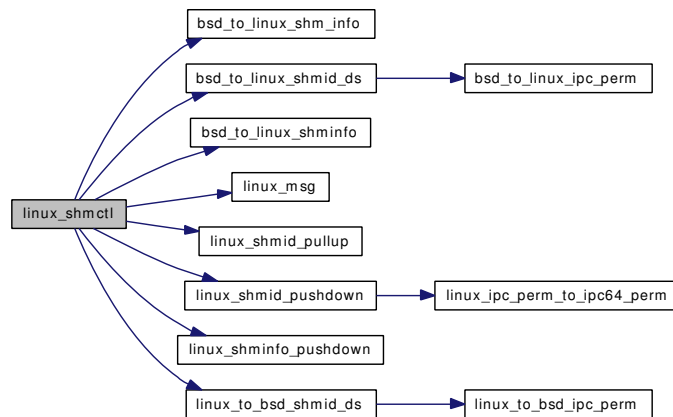
**7.12.1.21** `int linux_shmctl (struct thread * td, struct linux_shmctl_args * args)`

Definition at line 752 of file linux\_ipc.c.

References bsd\_to\_linux\_shm\_info(), bsd\_to\_linux\_shmid\_ds(), bsd\_to\_linux\_shminfo(), LINUX\_IPC\_64, linux\_msg(), linux\_shmid\_pullup(), linux\_shmid\_pushdown(), linux\_shminfo\_pushdown(), and linux\_to\_bsd\_shmid\_ds().

Here is the call graph for this function:





#### 7.12.1.22 `int linux_shmctl(struct thread * td, struct linux_shmctl_args * args)`

Definition at line 726 of file linux\_ipc.c.

#### 7.12.1.23 `int linux_shmget(struct thread * td, struct linux_shmget_args * args)`

Definition at line 737 of file linux\_ipc.c.

#### 7.12.1.24 `static int linux_shmid_pullup(l_int ver, struct l_shmid_ds * linux_shmid, caddr_t uaddr)` [static]

Definition at line 401 of file linux\_ipc.c.

References LINUX\_IPC\_64.

Referenced by linux\_shmctl().

#### 7.12.1.25 `static int linux_shmid_pushdown(l_int ver, struct l_shmid_ds * linux_shmid, caddr_t uaddr)` [static]

Definition at line 423 of file linux\_ipc.c.

References LINUX\_IPC\_64, linux\_ipc\_perm\_to\_ipc64\_perm(), l\_shmid\_ds::shm\_atime, l\_shmid\_ds::shm\_cpid, l\_shmid\_ds::shm\_ctime, l\_shmid\_ds::shm\_dtime, l\_shmid\_ds::shm\_lpid, l\_shmid\_ds::shm\_nattch, l\_shmid\_ds::shm\_perm, and l\_shmid\_ds::shm\_segsz.

Referenced by linux\_shmctl().

Here is the call graph for this function:



**7.12.1.26** `static int linux_shminfo_pushdown (l_int ver, struct l_shminfo * linux_shminfo, caddr_t uaddr) [static]`

Definition at line 448 of file linux\_ipc.c.

References LINUX\_IPC\_64, l\_shminfo::shmall, l\_shminfo::shmmax, l\_shminfo::shmmin, l\_shminfo::shmmni, and l\_shminfo::shmseg.

Referenced by linux\_shmctl().

**7.12.1.27** `static void linux_to_bsd_ipc_perm (struct l_ipc_perm * lpp, struct ipc_perm * bpp) [static]`

Definition at line 129 of file linux\_ipc.c.

References l\_ipc\_perm::cgid, l\_ipc\_perm::cuid, l\_ipc\_perm::gid, l\_ipc\_perm::key, l\_ipc\_perm::mode, l\_ipc\_perm::seq, and l\_ipc\_perm::uid.

Referenced by linux\_to\_bsd\_msgqid\_ds(), linux\_to\_bsd\_semids\_ds(), and linux\_to\_bsd\_shmid\_ds().

**7.12.1.28** `static void linux_to_bsd_msgqid_ds (struct l_msgqid_ds * lsp, struct msgqid_ds * bsp) [static]`

Definition at line 253 of file linux\_ipc.c.

References linux\_to\_bsd\_ipc\_perm(), l\_msgqid\_ds::msg\_cbytes, l\_msgqid\_ds::msg\_ctime, l\_msgqid\_ds::msg\_lrpids, l\_msgqid\_ds::msg\_lspids, l\_msgqid\_ds::msg\_perm, l\_msgqid\_ds::msg\_qbytes, l\_msgqid\_ds::msg\_qnum, l\_msgqid\_ds::msg\_rtime, and l\_msgqid\_ds::msg\_stime.

Referenced by linux\_msgctl().

Here is the call graph for this function:



**7.12.1.29** `static void linux_to_bsd_semids_ds (struct l_semids_ds * lsp, struct semids_ds * bsp) [static]`

Definition at line 203 of file linux\_ipc.c.

References linux\_to\_bsd\_ipc\_perm(), l\_semids\_ds::sem\_base, l\_semids\_ds::sem\_ctime, l\_semids\_ds::sem\_nsems, l\_semids\_ds::sem\_otime, and l\_semids\_ds::sem\_perm.

Referenced by linux\_semctl().

Here is the call graph for this function:



**7.12.1.30** `static void linux_to_bsd_shmid_ds (struct l_shmid_ds * lsp, struct shmid_ds * bsp)`  
[static]

Definition at line 223 of file linux\_ipc.c.

References `linux_to_bsd_ipc_perm()`, `l_shmid_ds::private3`, `l_shmid_ds::shm_atime`, `l_shmid_ds::shm_cpid`, `l_shmid_ds::shm_ctime`, `l_shmid_ds::shm_dtime`, `l_shmid_ds::shm_lpid`, `l_shmid_ds::shm_nattch`, `l_shmid_ds::shm_perm`, and `l_shmid_ds::shm_segsz`.

Referenced by `linux_shmctl()`.

Here is the call graph for this function:



**7.12.1.31** `MODULE_DEPEND (linux, sysvshm, 1, 1, 1)`

**7.12.1.32** `MODULE_DEPEND (linux, sysvsem, 1, 1, 1)`

**7.12.1.33** `MODULE_DEPEND (linux, sysvmsg, 1, 1, 1)`

## 7.13 /usr/src/sys/compat/linux/linux\_ipc.h File Reference

This graph shows which files directly or indirectly include this file:



### Defines

- #define [LINUX\\_IPC\\_OLD](#) 0
- #define [LINUX\\_IPC\\_64](#) 0x0100

### 7.13.1 Define Documentation

#### 7.13.1.1 #define LINUX\_IPC\_64 0x0100

Definition at line 40 of file linux\_ipc.h.

Referenced by linux\_msgctl(), linux\_msgqid\_pullup(), linux\_msgqid\_pushdown(), linux\_semctl(), linux\_semctl\_pullup(), linux\_semctl\_pushdown(), linux\_shmctl(), linux\_shmid\_pullup(), linux\_shmid\_pushdown(), and linux\_shminfo\_pushdown().

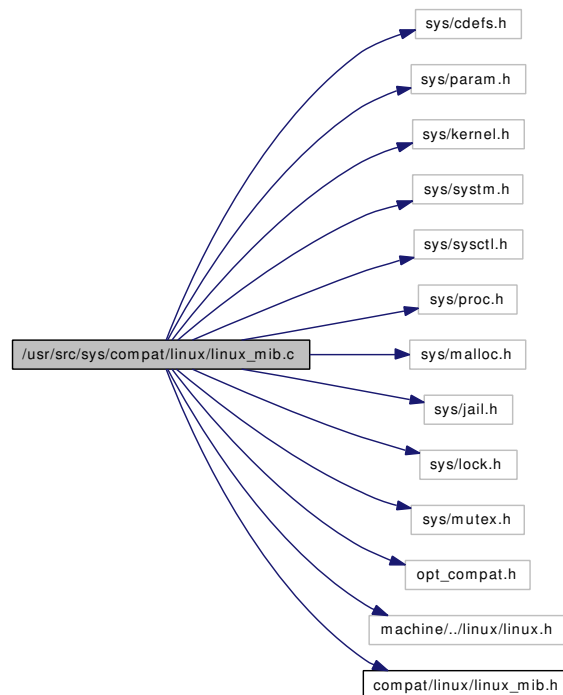
#### 7.13.1.2 #define LINUX\_IPC\_OLD 0

Definition at line 38 of file linux\_ipc.h.

## 7.14 /usr/src/sys/compat/linux/linux\_mib.c File Reference

```
#include <sys/cdefs.h>
#include <sys/param.h>
#include <sys/kernel.h>
#include <sys/system.h>
#include <sys/sysctl.h>
#include <sys/proc.h>
#include <sys/malloc.h>
#include <sys/jail.h>
#include <sys/lock.h>
#include <sys/mutex.h>
#include "opt_compat.h"
#include <machine/../linux/linux.h>
#include <compat/linux/linux_mib.h>
```

Include dependency graph for linux\_mib.c:



### Data Structures

- struct [linux\\_prison](#)

## Functions

- `__FBSDID` ("\$FreeBSD: src/sys/compat/linux/linux\_mib.c,v 1.29 2007/01/14 16:07:01 netchild Exp \$")
- `SYSCTL_NODE` (`_compat`, `OID_AUTO`, `linux`, `CTLFLAG_RW`, 0, "Linux mode")
- `MTX_SYSINIT` (`linux_osname`, `&osname_lock`, "linux osname", `MTX_DEF`)
- static int `linux_sysctl_osname` (`SYSCTL_HANDLER_ARGS`)
- `SYSCTL_PROC` (`_compat_linux`, `OID_AUTO`, `osname`, `CTLTYPE_STRING|CTLFLAG_-RW|CTLFLAG_PRISON`, 0, 0, `linux_sysctl_osname`, "A", "Linux kernel OS name")
- static int `linux_sysctl_osrelease` (`SYSCTL_HANDLER_ARGS`)
- `SYSCTL_PROC` (`_compat_linux`, `OID_AUTO`, `osrelease`, `CTLTYPE_STRING|CTLFLAG_-RW|CTLFLAG_PRISON`, 0, 0, `linux_sysctl_osrelease`, "A", "Linux kernel OS release")
- static int `linux_sysctl_oss_version` (`SYSCTL_HANDLER_ARGS`)
- `SYSCTL_PROC` (`_compat_linux`, `OID_AUTO`, `oss_version`, `CTLTYPE_INT|CTLFLAG_-RW|CTLFLAG_PRISON`, 0, 0, `linux_sysctl_oss_version`, "I", "Linux OSS version")
- static struct prison \* `linux_get_prison` (struct thread \*td)
- void `linux_get_osname` (struct thread \*td, char \*dst)
- int `linux_set_osname` (struct thread \*td, char \*osname)
- void `linux_get_osrelease` (struct thread \*td, char \*dst)
- int `linux_use26` (struct thread \*td)
- int `linux_set_osrelease` (struct thread \*td, char \*osrelease)
- int `linux_get_oss_version` (struct thread \*td)
- int `linux_set_oss_version` (struct thread \*td, int oss\_version)

## Variables

- static struct mtx `osname_lock`
- static char `linux_osname` [`LINUX_MAX_UTSNAME`] = "Linux"
- static char `linux_osrelease` [`LINUX_MAX_UTSNAME`] = "2.4.2"
- static int `linux_use_linux26` = 0
- static int `linux_oss_version` = 0x030600

### 7.14.1 Function Documentation

**7.14.1.1** `__FBSDID` ("\$FreeBSD: src/sys/compat/linux/linux\_mib. c, v 1.29 2007/01/14 16:07:01 netchild Exp \$")

**7.14.1.2** void `linux_get_osname` (struct thread \* *td*, char \* *dst*)

Definition at line 161 of file `linux_mib.c`.

References `linux_osname`, `osname_lock`, and `linux_prison::pr_osname`.

Referenced by `linux_newuname()`, and `linux_sysctl_osname()`.

**7.14.1.3** void `linux_get_osrelease` (struct thread \* *td*, char \* *dst*)

Definition at line 206 of file `linux_mib.c`.

References `linux_osrelease`, `osname_lock`, and `linux_prison::pr_osrelease`.

Referenced by `linux_newuname()`, and `linux_sysctl_osrelease()`.

**7.14.1.4 int linux\_get\_oss\_version (struct thread \* td)**

Definition at line 275 of file linux\_mib.c.

References linux\_oss\_version, osname\_lock, and linux\_prison::pr\_oss\_version.

Referenced by linux\_ioctl\_sound(), and linux\_sysctl\_oss\_version().

**7.14.1.5 static struct prison\* linux\_get\_prison (struct thread \* td) [static]**

Definition at line 132 of file linux\_mib.c.

Referenced by linux\_set\_osname(), linux\_set\_osrelease(), and linux\_set\_oss\_version().

**7.14.1.6 int linux\_set\_osname (struct thread \* td, char \* osname)**

Definition at line 186 of file linux\_mib.c.

References linux\_get\_prison(), linux\_osname, osname\_lock, and linux\_prison::pr\_osname.

Referenced by linux\_sysctl\_osname().

Here is the call graph for this function:

**7.14.1.7 int linux\_set\_osrelease (struct thread \* td, char \* osrelease)**

Definition at line 250 of file linux\_mib.c.

References linux\_get\_prison(), linux\_osrelease, linux\_use\_linux26, osname\_lock, linux\_prison::pr\_osrelease, and linux\_prison::pr\_use\_linux26.

Referenced by linux\_sysctl\_osrelease().

Here is the call graph for this function:

**7.14.1.8 int linux\_set\_oss\_version (struct thread \* td, int oss\_version)**

Definition at line 302 of file linux\_mib.c.

References linux\_get\_prison(), linux\_oss\_version, osname\_lock, and linux\_prison::pr\_oss\_version.

Referenced by linux\_sysctl\_oss\_version().

Here is the call graph for this function:

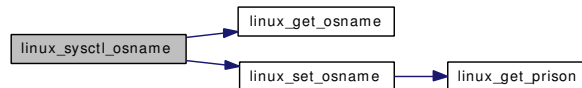


#### 7.14.1.9 `static int linux_sysctl_osname (SYSCTL_HANDLER_ARGS) [static]`

Definition at line 67 of file `linux_mib.c`.

References `linux_get_osname()`, and `linux_set_osname()`.

Here is the call graph for this function:

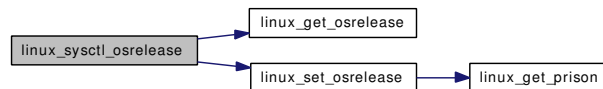


#### 7.14.1.10 `static int linux_sysctl_osrelease (SYSCTL_HANDLER_ARGS) [static]`

Definition at line 89 of file `linux_mib.c`.

References `linux_get_osrelease()`, and `linux_set_osrelease()`.

Here is the call graph for this function:

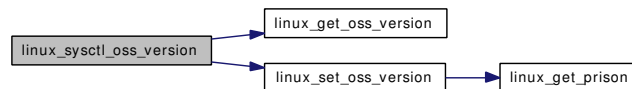


#### 7.14.1.11 `static int linux_sysctl_oss_version (SYSCTL_HANDLER_ARGS) [static]`

Definition at line 110 of file `linux_mib.c`.

References `linux_get_oss_version()`, and `linux_set_oss_version()`.

Here is the call graph for this function:



#### 7.14.1.12 `int linux_use26 (struct thread * td)`

Definition at line 232 of file `linux_mib.c`.

References `linux_use_linux26`, and `linux_prison::pr_use_linux26`.

Referenced by `linux_exit_group()`, `linux_getpid()`, and `linux_getppid()`.



- 7.14.1.13** `MTX_SYSINIT` (`linux_osname`, `& osname_lock`, "linux osname", `MTX_DEF`)
- 7.14.1.14** `SYSCTL_NODE` (`_compat`, `OID_AUTO`, `linux`, `CTLFLAG_RW`, `0`, "Linux mode")
- 7.14.1.15** `SYSCTL_PROC` (`_compat_linux`, `OID_AUTO`, `oss_version`, `CTLTYPE_-INT|CTLFLAG_RW| CTLFLAG_PRISON`, `0`, `0`, `linux_sysctl_oss_version`, "I", "Linux OSS version")
- 7.14.1.16** `SYSCTL_PROC` (`_compat_linux`, `OID_AUTO`, `osrelease`, `CTLTYPE_-STRING|CTLFLAG_RW| CTLFLAG_PRISON`, `0`, `0`, `linux_sysctl_osrelease`, "A", "Linux kernel OS release")
- 7.14.1.17** `SYSCTL_PROC` (`_compat_linux`, `OID_AUTO`, `osname`, `CTLTYPE_-STRING|CTLFLAG_RW| CTLFLAG_PRISON`, `0`, `0`, `linux_sysctl_osname`, "A", "Linux kernel OS name")

## 7.14.2 Variable Documentation

**7.14.2.1** `char linux_osname[LINUX_MAX_UTSNAME] = "Linux" [static]`

Definition at line 64 of file `linux_mib.c`.

Referenced by `linux_get_osname()`, and `linux_set_osname()`.

**7.14.2.2** `char linux_osrelease[LINUX_MAX_UTSNAME] = "2.4.2" [static]`

Definition at line 85 of file `linux_mib.c`.

Referenced by `linux_get_osrelease()`, and `linux_set_osrelease()`.

**7.14.2.3** `int linux_oss_version = 0x030600 [static]`

Definition at line 107 of file `linux_mib.c`.

Referenced by `linux_get_oss_version()`, and `linux_set_oss_version()`.

**7.14.2.4** `int linux_use_linux26 = 0 [static]`

Definition at line 86 of file `linux_mib.c`.

Referenced by `linux_set_osrelease()`, and `linux_use26()`.

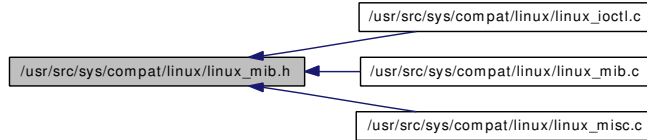
**7.14.2.5** `struct mtx osname_lock [static]`

Definition at line 61 of file `linux_mib.c`.

Referenced by `linux_get_osname()`, `linux_get_osrelease()`, `linux_get_oss_version()`, `linux_set_osname()`, `linux_set_osrelease()`, and `linux_set_oss_version()`.

## 7.15 /usr/src/sys/compat/linux/linux\_mib.h File Reference

This graph shows which files directly or indirectly include this file:



### Functions

- void [linux\\_get\\_osname](#) (struct thread \*td, char \*dst)
- int [linux\\_set\\_osname](#) (struct thread \*td, char \*osname)
- void [linux\\_get\\_osrelease](#) (struct thread \*td, char \*dst)
- int [linux\\_set\\_osrelease](#) (struct thread \*td, char \*osrelease)
- int [linux\\_get\\_oss\\_version](#) (struct thread \*td)
- int [linux\\_set\\_oss\\_version](#) (struct thread \*td, int oss\_version)
- int [linux\\_use26](#) (struct thread \*td)

### 7.15.1 Function Documentation

#### 7.15.1.1 void [linux\\_get\\_osname](#) (struct thread \* *td*, char \* *dst*)

Definition at line 161 of file linux\_mib.c.

References [linux\\_osname](#), [osname\\_lock](#), and [linux\\_prison::pr\\_osname](#).

Referenced by [linux\\_newuname\(\)](#), and [linux\\_sysctl\\_osname\(\)](#).

#### 7.15.1.2 void [linux\\_get\\_osrelease](#) (struct thread \* *td*, char \* *dst*)

Definition at line 206 of file linux\_mib.c.

References [linux\\_osrelease](#), [osname\\_lock](#), and [linux\\_prison::pr\\_osrelease](#).

Referenced by [linux\\_newuname\(\)](#), and [linux\\_sysctl\\_osrelease\(\)](#).

#### 7.15.1.3 int [linux\\_get\\_oss\\_version](#) (struct thread \* *td*)

Definition at line 275 of file linux\_mib.c.

References [linux\\_oss\\_version](#), [osname\\_lock](#), and [linux\\_prison::pr\\_oss\\_version](#).

Referenced by [linux\\_ioctl\\_sound\(\)](#), and [linux\\_sysctl\\_oss\\_version\(\)](#).

#### 7.15.1.4 int [linux\\_set\\_osname](#) (struct thread \* *td*, char \* *osname*)

Definition at line 186 of file linux\_mib.c.

References [linux\\_get\\_prison\(\)](#), [linux\\_osname](#), [osname\\_lock](#), and [linux\\_prison::pr\\_osname](#).

Referenced by [linux\\_sysctl\\_osname\(\)](#).

Here is the call graph for this function:



#### 7.15.1.5 `int linux_set_osrelease(struct thread * td, char * osrelease)`

Definition at line 250 of file `linux_mib.c`.

References `linux_get_prison()`, `linux_osrelease`, `linux_use_linux26`, `osname_lock`, `linux_prison::pr_osrelease`, and `linux_prison::pr_use_linux26`.

Referenced by `linux_sysctl_osrelease()`.

Here is the call graph for this function:



#### 7.15.1.6 `int linux_set_oss_version(struct thread * td, int oss_version)`

Definition at line 302 of file `linux_mib.c`.

References `linux_get_prison()`, `linux_oss_version`, `osname_lock`, and `linux_prison::pr_oss_version`.

Referenced by `linux_sysctl_oss_version()`.

Here is the call graph for this function:



#### 7.15.1.7 `int linux_use26(struct thread * td)`

Definition at line 232 of file `linux_mib.c`.

References `linux_use_linux26`, and `linux_prison::pr_use_linux26`.

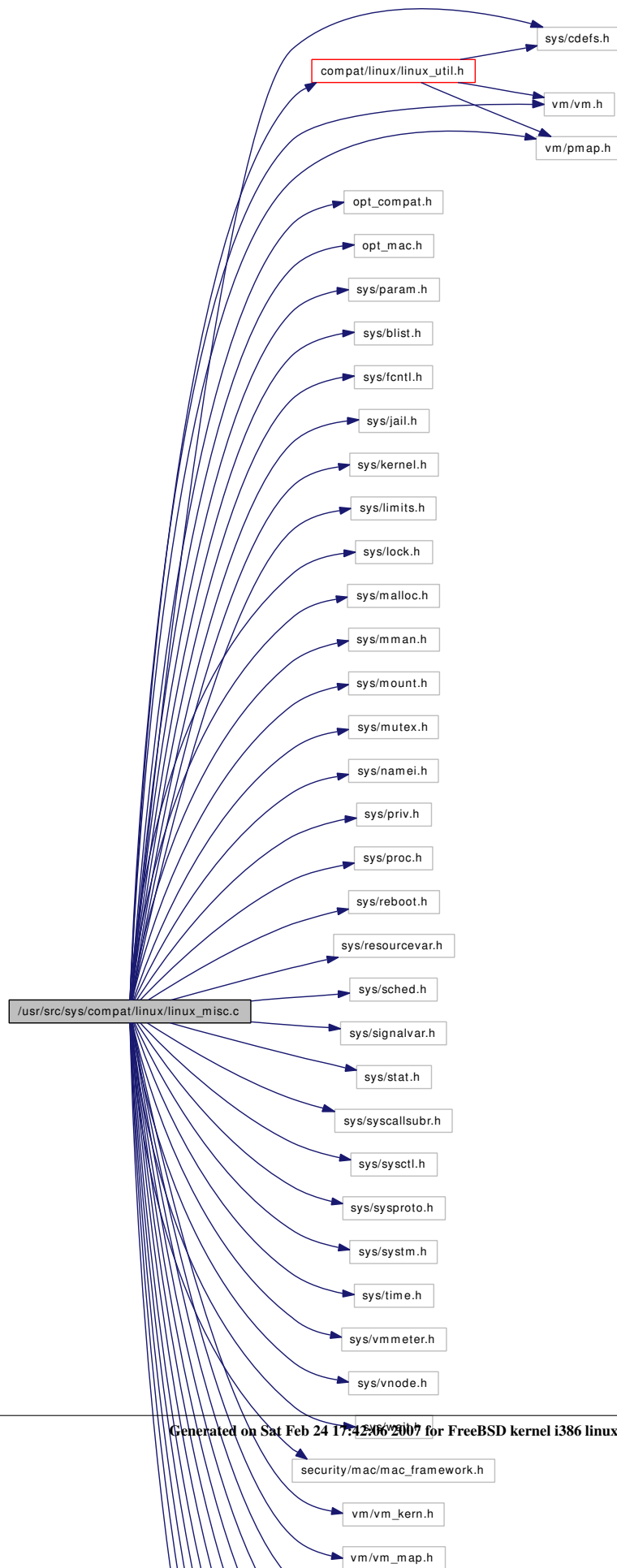
Referenced by `linux_exit_group()`, `linux_getpid()`, and `linux_getppid()`.

## 7.16 /usr/src/sys/compat/linux/linux\_misc.c File Reference

```
#include <sys/cdefs.h>
#include "opt_compat.h"
#include "opt_mac.h"
#include <sys/param.h>
#include <sys/blist.h>
#include <sys/fcntl.h>
#include <sys/jail.h>
#include <sys/kernel.h>
#include <sys/limits.h>
#include <sys/lock.h>
#include <sys/malloc.h>
#include <sys/mman.h>
#include <sys/mount.h>
#include <sys/mutex.h>
#include <sys/namei.h>
#include <sys/priv.h>
#include <sys/proc.h>
#include <sys/reboot.h>
#include <sys/resourcevar.h>
#include <sys/sched.h>
#include <sys/signalvar.h>
#include <sys/stat.h>
#include <sys/syscallsubr.h>
#include <sys/sysctl.h>
#include <sys/sysproto.h>
#include <sys/system.h>
#include <sys/time.h>
#include <sys/vmmeter.h>
#include <sys/vnode.h>
#include <sys/wait.h>
#include <security/mac/mac_framework.h>
#include <vm/vm.h>
#include <vm/pmap.h>
#include <vm/vm_kern.h>
#include <vm/vm_map.h>
```

```
#include <vm/vm_extern.h>
#include <vm/vm_object.h>
#include <vm/swap_pager.h>
#include <compat/linux/linux_sysproto.h>
#include <compat/linux/linux_emul.h>
#include <compat/linux/linux_misc.h>
#include <machine/./linux/linux.h>
#include <machine/./linux/linux_proto.h>
#include <compat/linux/linux_mib.h>
#include <compat/linux/linux_signal.h>
#include <compat/linux/linux_util.h>
```

Include dependency graph for linux\_misc.c:



## Data Structures

- struct [l\\_sysinfo](#)
- struct [l\\_times\\_argv](#)
- struct [l\\_itimerval](#)

## Defines

- #define [BSD\\_TO\\_LINUX\\_SIGNAL](#)(sig) (((sig) <= LINUX\_SIGTBLSZ) ? bsd\_to\_linux\_signal[\_SIG\_IDX(sig)] : sig)
- #define [LINUX\\_SYSINFO\\_LOADS\\_SCALE](#) 65536
- #define [LINUX\\_MS\\_ASYNC](#) 0x0001
- #define [LINUX\\_MS\\_INVALIDATE](#) 0x0002
- #define [LINUX\\_MS\\_SYNC](#) 0x0004
- #define [CLK\\_TCK](#) 100
- #define [CONVTCK](#)(r) (r.tv\_sec \* CLK\_TCK + r.tv\_usec / (1000000 / CLK\_TCK))
- #define [\\_\\_WCLONE](#) 0x80000000
- #define [B2L\\_ITIMERVERAL](#)(bip, lip)
- #define [REBOOT\\_CAD\\_ON](#) 0x89abcdef
- #define [REBOOT\\_CAD\\_OFF](#) 0
- #define [REBOOT\\_HALT](#) 0xcdef0123
- #define [REBOOT\\_RESTART](#) 0x01234567
- #define [REBOOT\\_RESTART2](#) 0xA1B2C3D4
- #define [REBOOT\\_POWEROFF](#) 0x4321FEDC
- #define [REBOOT\\_MAGIC1](#) 0xfeeldead
- #define [REBOOT\\_MAGIC2](#) 0x28121969
- #define [REBOOT\\_MAGIC2A](#) 0x05121996
- #define [REBOOT\\_MAGIC2B](#) 0x16041998

## Functions

- [\\_\\_FBSDID](#) ("FreeBSD: src/sys/compat/linux/linux\_misc.c,v 1.207 2007/02/23 22:39:26 netchild Exp \$")
- int [linux\\_sysinfo](#) (struct thread \*td, struct linux\_sysinfo\_args \*args)
- int [linux\\_alarm](#) (struct thread \*td, struct linux\_alarm\_args \*args)
- int [linux\\_brk](#) (struct thread \*td, struct linux\_brk\_args \*args)
- int [linux\\_select](#) (struct thread \*td, struct linux\_select\_args \*args)
- int [linux\\_mremap](#) (struct thread \*td, struct linux\_mremap\_args \*args)
- int [linux\\_msync](#) (struct thread \*td, struct linux\_msync\_args \*args)
- int [linux\\_time](#) (struct thread \*td, struct linux\_time\_args \*args)
- int [linux\\_times](#) (struct thread \*td, struct linux\_times\_args \*args)
- int [linux\\_newuname](#) (struct thread \*td, struct linux\_newuname\_args \*args)
- int [linux\\_waitpid](#) (struct thread \*td, struct linux\_waitpid\_args \*args)
- int [linux\\_wait4](#) (struct thread \*td, struct linux\_wait4\_args \*args)
- int [linux\\_mknod](#) (struct thread \*td, struct linux\_mknod\_args \*args)
- int [linux\\_personality](#) (struct thread \*td, struct linux\_personality\_args \*args)
- int [linux\\_setitimer](#) (struct thread \*td, struct linux\_setitimer\_args \*uap)
- int [linux\\_getitimer](#) (struct thread \*td, struct linux\_getitimer\_args \*uap)
- int [linux\\_nice](#) (struct thread \*td, struct linux\_nice\_args \*args)
- int [linux\\_setgroups](#) (struct thread \*td, struct linux\_setgroups\_args \*args)

- int [linux\\_getgroups](#) (struct thread \*td, struct linux\_getgroups\_args \*args)
- int [linux\\_setrlimit](#) (struct thread \*td, struct linux\_setrlimit\_args \*args)
- int [linux\\_old\\_getrlimit](#) (struct thread \*td, struct linux\_old\_getrlimit\_args \*args)
- int [linux\\_getrlimit](#) (struct thread \*td, struct linux\_getrlimit\_args \*args)
- int [linux\\_sched\\_setscheduler](#) (struct thread \*td, struct linux\_sched\_setscheduler\_args \*args)
- int [linux\\_sched\\_getscheduler](#) (struct thread \*td, struct linux\_sched\_getscheduler\_args \*args)
- int [linux\\_sched\\_get\\_priority\\_max](#) (struct thread \*td, struct linux\_sched\_get\_priority\_max\_args \*args)
- int [linux\\_sched\\_get\\_priority\\_min](#) (struct thread \*td, struct linux\_sched\_get\_priority\_min\_args \*args)
- int [linux\\_reboot](#) (struct thread \*td, struct linux\_reboot\_args \*args)
- int [linux\\_getpid](#) (struct thread \*td, struct linux\_getpid\_args \*args)
- int [linux\\_gettid](#) (struct thread \*td, struct linux\_gettid\_args \*args)
- int [linux\\_getppid](#) (struct thread \*td, struct linux\_getppid\_args \*args)
- int [linux\\_getgid](#) (struct thread \*td, struct linux\_getgid\_args \*args)
- int [linux\\_getuid](#) (struct thread \*td, struct linux\_getuid\_args \*args)
- int [linux\\_getsid](#) (struct thread \*td, struct linux\_getsid\_args \*args)
- int [linux\\_nosys](#) (struct thread \*td, struct nosys\_args \*ignore)
- int [linux\\_getpriority](#) (struct thread \*td, struct linux\_getpriority\_args \*args)
- int [linux\\_sethostname](#) (struct thread \*td, struct linux\_sethostname\_args \*args)
- int [linux\\_exit\\_group](#) (struct thread \*td, struct linux\_exit\_group\_args \*args)
- int [linux\\_prctl](#) (struct thread \*td, struct linux\_prctl\_args \*args)

## Variables

- static unsigned int [linux\\_to\\_bsd\\_resource](#) [LINUX\_RLIM\_NLIMITS]

## 7.16.1 Define Documentation

### 7.16.1.1 #define \_\_WCLONE 0x80000000

Definition at line 823 of file linux\_misc.c.

Referenced by linux\_wait4(), and linux\_waitpid().

### 7.16.1.2 #define B2L\_ITIMERVAL(bip, lip)

#### Value:

```
(bip)->it_interval.tv_sec = (lip)->it_interval.tv_sec;          \
    (bip)->it_interval.tv_usec = (lip)->it_interval.tv_usec;    \
    (bip)->it_value.tv_sec = (lip)->it_value.tv_sec;           \
    (bip)->it_value.tv_usec = (lip)->it_value.tv_usec;
```

Definition at line 981 of file linux\_misc.c.

Referenced by linux\_getitimer(), and linux\_setitimer().



**7.16.1.3 #define BSD\_TO\_LINUX\_SIGNAL(sig) (((sig) <= LINUX\_SIGTBLSZ) ?  
bsd\_to\_linux\_signal[\_SIG\_IDX(sig)] : sig)**

Definition at line 97 of file linux\_misc.c.

Referenced by linux\_wait4(), and linux\_waitpid().

**7.16.1.4 #define CLK\_TCK 100**

Definition at line 653 of file linux\_misc.c.

**7.16.1.5 #define CONVTCK(r) (r.tv\_sec \* CLK\_TCK + r.tv\_usec / (1000000 / CLK\_TCK))**

Definition at line 655 of file linux\_misc.c.

Referenced by linux\_times().

**7.16.1.6 #define LINUX\_MS\_ASYNC 0x0001**

Definition at line 610 of file linux\_misc.c.

**7.16.1.7 #define LINUX\_MS\_INVALIDATE 0x0002**

Definition at line 611 of file linux\_misc.c.

**7.16.1.8 #define LINUX\_MS\_SYNC 0x0004**

Definition at line 612 of file linux\_misc.c.

Referenced by linux\_msync().

**7.16.1.9 #define LINUX\_SYSINFO\_LOADS\_SCALE 65536**

Definition at line 109 of file linux\_misc.c.

Referenced by linux\_sysinfo().

**7.16.1.10 #define REBOOT\_CAD\_OFF 0**

Definition at line 1366 of file linux\_misc.c.

Referenced by linux\_reboot().

**7.16.1.11 #define REBOOT\_CAD\_ON 0x89abcdef**

Definition at line 1365 of file linux\_misc.c.

Referenced by linux\_reboot().

**7.16.1.12 #define REBOOT\_HALT 0xcdef0123**

Definition at line 1367 of file linux\_misc.c.

Referenced by linux\_reboot().

**7.16.1.13 #define REBOOT\_MAGIC1 0xfee1dead**

Definition at line 1371 of file linux\_misc.c.

Referenced by linux\_reboot().

**7.16.1.14 #define REBOOT\_MAGIC2 0x28121969**

Definition at line 1372 of file linux\_misc.c.

Referenced by linux\_reboot().

**7.16.1.15 #define REBOOT\_MAGIC2A 0x05121996**

Definition at line 1373 of file linux\_misc.c.

Referenced by linux\_reboot().

**7.16.1.16 #define REBOOT\_MAGIC2B 0x16041998**

Definition at line 1374 of file linux\_misc.c.

Referenced by linux\_reboot().

**7.16.1.17 #define REBOOT\_POWEROFF 0x4321FEDC**

Definition at line 1370 of file linux\_misc.c.

Referenced by linux\_reboot().

**7.16.1.18 #define REBOOT\_RESTART 0x01234567**

Definition at line 1368 of file linux\_misc.c.

Referenced by linux\_reboot().

**7.16.1.19 #define REBOOT\_RESTART2 0xA1B2C3D4**

Definition at line 1369 of file linux\_misc.c.

Referenced by linux\_reboot().

## 7.16.2 Function Documentation

**7.16.2.1** `__FBSDID("$FreeBSD: src/sys/compat/linux/linux_misc.c, v 1.207 2007/02/23 22:39:26 netchild Exp $")`

**7.16.2.2** `int linux_alarm (struct thread * td, struct linux_alarm_args * args)`

Definition at line 169 of file linux\_misc.c.

**7.16.2.3** `int linux_brk (struct thread * td, struct linux_brk_args * args)`

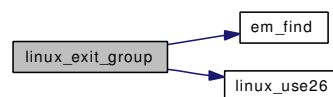
Definition at line 198 of file linux\_misc.c.

**7.16.2.4** `int linux_exit_group (struct thread * td, struct linux_exit_group_args * args)`

Definition at line 1598 of file linux\_misc.c.

References `em_find()`, `EMUL_DONTLOCK`, `emul_shared_lock`, `EMUL_SHARED_RLOCK`, `EMUL_SHARED_RUNLOCK`, `linux_use26()`, `linux_emuldata::pid`, and `linux_emuldata::shared`.

Here is the call graph for this function:



**7.16.2.5** `int linux_getgid (struct thread * td, struct linux_getgid_args * args)`

Definition at line 1516 of file linux\_misc.c.

**7.16.2.6** `int linux_getgroups (struct thread * td, struct linux_getgroups_args * args)`

Definition at line 1108 of file linux\_misc.c.

**7.16.2.7** `int linux_getitimer (struct thread * td, struct linux_getitimer_args * uap)`

Definition at line 1026 of file linux\_misc.c.

References `B2L_ITIMERVERVAL`.

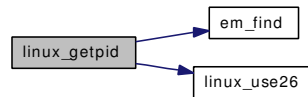
Referenced by `linux_setitimer()`.

**7.16.2.8** `int linux_getpid (struct thread * td, struct linux_getpid_args * args)`

Definition at line 1432 of file linux\_misc.c.

References `em_find()`, `EMUL_DONTLOCK`, `linux_emuldata_shared::group_pid`, `linux_use26()`, and `linux_emuldata::shared`.

Here is the call graph for this function:

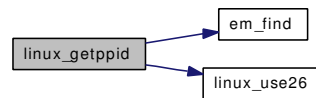


### 7.16.2.9 `int linux_getpid (struct thread * td, struct linux_getpid_args * args)`

Definition at line 1466 of file linux\_misc.c.

References `em_find()`, `EMUL_DONTLOCK`, `linux_emuldata_shared::group_pid`, `linux_use26()`, and `linux_emuldata::shared`.

Here is the call graph for this function:



### 7.16.2.10 `int linux_getpriority (struct thread * td, struct linux_getpriority_args * args)`

Definition at line 1564 of file linux\_misc.c.

### 7.16.2.11 `int linux_getrlimit (struct thread * td, struct linux_getrlimit_args * args)`

Definition at line 1221 of file linux\_misc.c.

References `linux_to_bsd_resource`.

### 7.16.2.12 `int linux_getsid (struct thread * td, struct linux_getsid_args * args)`

Definition at line 1543 of file linux\_misc.c.

### 7.16.2.13 `int linux_gettid (struct thread * td, struct linux_gettid_args * args)`

Definition at line 1453 of file linux\_misc.c.

### 7.16.2.14 `int linux_getuid (struct thread * td, struct linux_getuid_args * args)`

Definition at line 1529 of file linux\_misc.c.

### 7.16.2.15 `int linux_mknod (struct thread * td, struct linux_mknod_args * args)`

Definition at line 914 of file linux\_misc.c.

References `LCONVPATHCREAT`, and `LFREEPATH`.

**7.16.2.16 int linux\_mremap (struct thread \* td, struct linux\_mremap\_args \* args)**

Definition at line 575 of file linux\_misc.c.

**7.16.2.17 int linux\_msync (struct thread \* td, struct linux\_msync\_args \* args)**

Definition at line 615 of file linux\_misc.c.

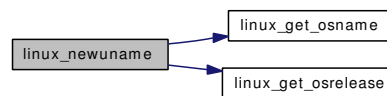
References LINUX\_MS\_SYNC.

**7.16.2.18 int linux\_newuname (struct thread \* td, struct linux\_newuname\_args \* args)**

Definition at line 693 of file linux\_misc.c.

References linux\_get\_osname(), and linux\_get\_osrelease().

Here is the call graph for this function:

**7.16.2.19 int linux\_nice (struct thread \* td, struct linux\_nice\_args \* args)**

Definition at line 1044 of file linux\_misc.c.

**7.16.2.20 int linux\_nosys (struct thread \* td, struct nosys\_args \* ignore)**

Definition at line 1557 of file linux\_misc.c.

**7.16.2.21 int linux\_old\_getrlimit (struct thread \* td, struct linux\_old\_getrlimit\_args \* args)**

Definition at line 1178 of file linux\_misc.c.

References linux\_to\_bsd\_resource.

**7.16.2.22 int linux\_personality (struct thread \* td, struct linux\_personality\_args \* args)**

Definition at line 962 of file linux\_misc.c.

**7.16.2.23 int linux\_prctl (struct thread \* td, struct linux\_prctl\_args \* args)**

Definition at line 1639 of file linux\_misc.c.

References em\_find(), EMUL\_DOLOCK, emul\_lock, EMUL\_UNLOCK, LINUX\_MAX\_COMM\_LEN, LINUX\_PR\_GET\_NAME, LINUX\_PR\_GET\_PDEATHSIG, LINUX\_PR\_SET\_NAME, LINUX\_PR\_SET\_PDEATHSIG, LINUX\_SIG\_VALID, and linux\_emuldata::pdeath\_signal.

Here is the call graph for this function:



#### 7.16.2.24 `int linux_reboot (struct thread * td, struct linux_reboot_args * args)`

Definition at line 1377 of file linux\_misc.c.

References REBOOT\_CAD\_OFF, REBOOT\_CAD\_ON, REBOOT\_HALT, REBOOT\_MAGIC1, REBOOT\_MAGIC2, REBOOT\_MAGIC2A, REBOOT\_MAGIC2B, REBOOT\_POWEROFF, REBOOT\_RESTART, and REBOOT\_RESTART2.

#### 7.16.2.25 `int linux_sched_get_priority_max (struct thread * td, struct linux_sched_get_priority_max_args * args)`

Definition at line 1312 of file linux\_misc.c.

#### 7.16.2.26 `int linux_sched_get_priority_min (struct thread * td, struct linux_sched_get_priority_min_args * args)`

Definition at line 1339 of file linux\_misc.c.

#### 7.16.2.27 `int linux_sched_getscheduler (struct thread * td, struct linux_sched_getscheduler_args * args)`

Definition at line 1282 of file linux\_misc.c.

#### 7.16.2.28 `int linux_sched_setscheduler (struct thread * td, struct linux_sched_setscheduler_args * args)`

Definition at line 1251 of file linux\_misc.c.

#### 7.16.2.29 `int linux_select (struct thread * td, struct linux_select_args * args)`

Definition at line 476 of file linux\_misc.c.

#### 7.16.2.30 `int linux_setgroups (struct thread * td, struct linux_setgroups_args * args)`

Definition at line 1055 of file linux\_misc.c.

#### 7.16.2.31 `int linux_sethostname (struct thread * td, struct linux_sethostname_args * args)`

Definition at line 1582 of file linux\_misc.c.

**7.16.2.32 int linux\_setitimer (struct thread \* td, struct linux\_setitimer\_args \* uap)**

Definition at line 988 of file linux\_misc.c.

References B2L\_ITIMERVERVAL, and linux\_getitimer().

Here is the call graph for this function:

**7.16.2.33 int linux\_setrlimit (struct thread \* td, struct linux\_setrlimit\_args \* args)**

Definition at line 1148 of file linux\_misc.c.

References linux\_to\_bsd\_resource.

**7.16.2.34 int linux\_sysinfo (struct thread \* td, struct linux\_sysinfo\_args \* args)**

Definition at line 124 of file linux\_misc.c.

References l\_sysinfo::bufferram, l\_sysinfo::freebig, l\_sysinfo::freeram, l\_sysinfo::freeswap, LINUX\_SYSINFO\_LOADS\_SCALE, l\_sysinfo::loads, l\_sysinfo::mem\_unit, l\_sysinfo::procs, l\_sysinfo::sharedram, l\_sysinfo::totalbig, l\_sysinfo::totalram, l\_sysinfo::totalswap, and l\_sysinfo::uptime.

**7.16.2.35 int linux\_time (struct thread \* td, struct linux\_time\_args \* args)**

Definition at line 627 of file linux\_misc.c.

**7.16.2.36 int linux\_times (struct thread \* td, struct linux\_times\_args \* args)**

Definition at line 658 of file linux\_misc.c.

References CONVTK, l\_times\_argv::tms\_cstime, l\_times\_argv::tms\_cutime, l\_times\_argv::tms\_stime, and l\_times\_argv::tms\_utime.

**7.16.2.37 int linux\_wait4 (struct thread \* td, struct linux\_wait4\_args \* args)**

Definition at line 866 of file linux\_misc.c.

References \_\_WCLONE, and BSD\_TO\_LINUX\_SIGNAL.

**7.16.2.38 int linux\_waitpid (struct thread \* td, struct linux\_waitpid\_args \* args)**

Definition at line 826 of file linux\_misc.c.

References \_\_WCLONE, and BSD\_TO\_LINUX\_SIGNAL.

## 7.16.3 Variable Documentation

### 7.16.3.1 unsigned int `linux_to_bsd_resource`[`LINUX_RLIM_NLIMITS`] [static]

**Initial value:**

```
{
    RLIMIT_CPU, RLIMIT_FSIZE, RLIMIT_DATA, RLIMIT_STACK,
    RLIMIT_CORE, RLIMIT_RSS, RLIMIT_NPROC, RLIMIT_NOFILE,
    RLIMIT_MEMLOCK, RLIMIT_AS
}
```

Definition at line 100 of file `linux_misc.c`.

Referenced by `linux_getrlimit()`, `linux_old_getrlimit()`, and `linux_setrlimit()`.



## 7.17 /usr/src/sys/compat/linux/linux\_misc.h File Reference

This graph shows which files directly or indirectly include this file:



### Defines

- #define [LINUX\\_PR\\_SET\\_PDEATHSIG](#) 1
- #define [LINUX\\_PR\\_GET\\_PDEATHSIG](#) 2
- #define [LINUX\\_PR\\_SET\\_NAME](#) 15
- #define [LINUX\\_PR\\_GET\\_NAME](#) 16
- #define [LINUX\\_MAX\\_COMM\\_LEN](#) 16

### 7.17.1 Define Documentation

#### 7.17.1.1 #define LINUX\_MAX\_COMM\_LEN 16

Definition at line 43 of file linux\_misc.h.

Referenced by linux\_prctl().

#### 7.17.1.2 #define LINUX\_PR\_GET\_NAME 16

Definition at line 41 of file linux\_misc.h.

Referenced by linux\_prctl().

#### 7.17.1.3 #define LINUX\_PR\_GET\_PDEATHSIG 2

Definition at line 36 of file linux\_misc.h.

Referenced by linux\_prctl().

#### 7.17.1.4 #define LINUX\_PR\_SET\_NAME 15

Definition at line 40 of file linux\_misc.h.

Referenced by linux\_prctl().

#### 7.17.1.5 #define LINUX\_PR\_SET\_PDEATHSIG 1

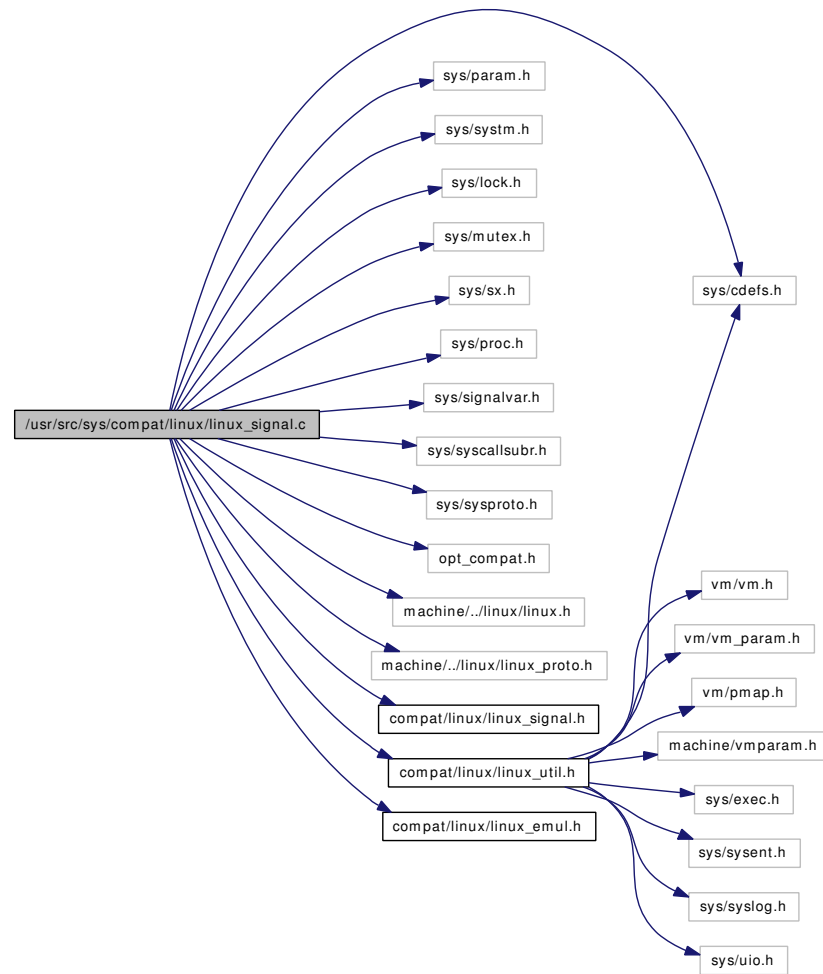
Definition at line 35 of file linux\_misc.h.

Referenced by linux\_prctl().

## 7.18 /usr/src/sys/compat/linux/linux\_signal.c File Reference

```
#include <sys/cdefs.h>
#include <sys/param.h>
#include <sys/system.h>
#include <sys/lock.h>
#include <sys/mutex.h>
#include <sys/sx.h>
#include <sys/proc.h>
#include <sys/signalvar.h>
#include <sys/syscallsubr.h>
#include <sys/sysproto.h>
#include "opt_compat.h"
#include <machine/./linux/linux.h>
#include <machine/./linux/linux_proto.h>
#include <compat/linux/linux_signal.h>
#include <compat/linux/linux_util.h>
#include <compat/linux/linux_emul.h>
```

Include dependency graph for linux\_signal.c:



## Functions

- `__FBSDID` ("\$FreeBSD: src/sys/compat/linux/linux\_signal.c,v 1.65 2007/01/07 19:14:06 netchild Exp \$")
- void `linux_to_bsd_sigset` (l\_sigset\_t \*lss, sigset\_t \*bss)
- void `bsd_to_linux_sigset` (sigset\_t \*bss, l\_sigset\_t \*lss)
- static void `linux_to_bsd_sigaction` (l\_sigaction\_t \*lsa, struct sigaction \*bsa)
- static void `bsd_to_linux_sigaction` (struct sigaction \*bsa, l\_sigaction\_t \*lsa)
- int `linux_do_sigaction` (struct thread \*td, int linux\_sig, l\_sigaction\_t \*linux\_nsa, l\_sigaction\_t \*linux\_osa)
- int `linux_signal` (struct thread \*td, struct linux\_signal\_args \*args)
- int `linux_rt_sigaction` (struct thread \*td, struct linux\_rt\_sigaction\_args \*args)
- static int `linux_do_sigprocmask` (struct thread \*td, int how, l\_sigset\_t \*new, l\_sigset\_t \*old)
- int `linux_sigprocmask` (struct thread \*td, struct linux\_sigprocmask\_args \*args)
- int `linux_rt_sigprocmask` (struct thread \*td, struct linux\_rt\_sigprocmask\_args \*args)
- int `linux_sgetmask` (struct thread \*td, struct linux\_sgetmask\_args \*args)
- int `linux_ssetmask` (struct thread \*td, struct linux\_ssetmask\_args \*args)
- int `linux_sigpending` (struct thread \*td, struct linux\_sigpending\_args \*args)
- int `linux_rt_sigpending` (struct thread \*td, struct linux\_rt\_sigpending\_args \*args)

- int `linux_rt_sigtimedwait` (struct thread \*td, struct linux\_rt\_sigtimedwait\_args \*args)
- int `linux_kill` (struct thread \*td, struct linux\_kill\_args \*args)
- int `linux_tgkill` (struct thread \*td, struct linux\_tgkill\_args \*args)
- int `linux_tkill` (struct thread \*td, struct linux\_tkill\_args \*args)

## 7.18.1 Function Documentation

**7.18.1.1** `__FBSDID ("FreeBSD: src/sys/compat/linux/linux_signal.c, v 1.65 2007/01/07 19:14:06 netchild Exp $")`

**7.18.1.2** `static void bsd_to_linux_sigaction (struct sigaction *bsa, l_sigaction_t *lsa)` [static]

Definition at line 113 of file linux\_signal.c.

References `bsd_to_linux_sigset()`.

Referenced by `linux_do_sigaction()`.

Here is the call graph for this function:



**7.18.1.3** `void bsd_to_linux_sigset (sigset_t *bss, l_sigset_t *lss)`

Definition at line 73 of file linux\_signal.c.

Referenced by `bsd_to_linux_sigaction()`, `linux_do_sigprocmask()`, `linux_rt_sigpending()`, `linux_ssetmask()`, `linux_sigpending()`, and `linux_ssetmask()`.

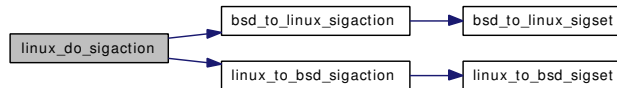
**7.18.1.4** `int linux_do_sigaction (struct thread *td, int linux_sig, l_sigaction_t *linux_nsa, l_sigaction_t *linux_osa)`

Definition at line 141 of file linux\_signal.c.

References `bsd_to_linux_sigaction()`, `LINUX_SIG_VALID`, and `linux_to_bsd_sigaction()`.

Referenced by `linux_rt_sigaction()`, and `linux_signal()`.

Here is the call graph for this function:



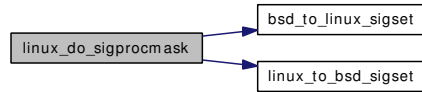
**7.18.1.5** `static int linux_do_sigprocmask (struct thread *td, int how, l_sigset_t *new, l_sigset_t *old)` [static]

Definition at line 229 of file linux\_signal.c.

References `bsd_to_linux_sigset()`, and `linux_to_bsd_sigset()`.

Referenced by `linux_rt_sigprocmask()`, and `linux_sigprocmask()`.

Here is the call graph for this function:



#### 7.18.1.6 `int linux_kill (struct thread * td, struct linux_kill_args * args)`

Definition at line 511 of file `linux_signal.c`.

References `LINUX_SIG_VALID`.

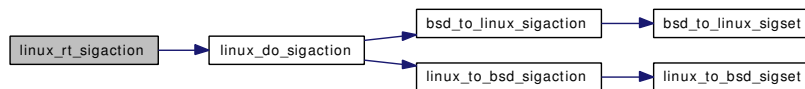
Referenced by `linux_tgkill()`, and `linux_tkill()`.

#### 7.18.1.7 `int linux_rt_sigaction (struct thread * td, struct linux_rt_sigaction_args * args)`

Definition at line 196 of file `linux_signal.c`.

References `linux_do_sigaction()`.

Here is the call graph for this function:



#### 7.18.1.8 `int linux_rt_sigpending (struct thread * td, struct linux_rt_sigpending_args * args)`

Definition at line 401 of file `linux_signal.c`.

References `bsd_to_linux_sigset()`.

Here is the call graph for this function:

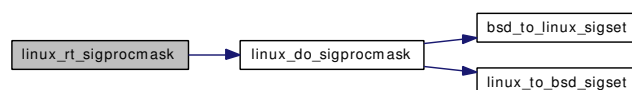


#### 7.18.1.9 `int linux_rt_sigprocmask (struct thread * td, struct linux_rt_sigprocmask_args * args)`

Definition at line 296 of file `linux_signal.c`.

References `linux_do_sigprocmask()`.

Here is the call graph for this function:



**7.18.1.10 int linux\_rt\_sigtimedwait (struct thread \* *td*, struct linux\_rt\_sigtimedwait\_args \* *args*)**

Definition at line 429 of file linux\_signal.c.

References linux\_to\_bsd\_sigset().

Here is the call graph for this function:

**7.18.1.11 int linux\_sgetmask (struct thread \* *td*, struct linux\_sgetmask\_args \* *args*)**

Definition at line 329 of file linux\_signal.c.

References bsd\_to\_linux\_sigset().

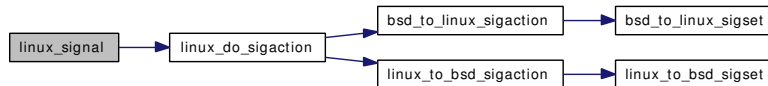
Here is the call graph for this function:

**7.18.1.12 int linux\_signal (struct thread \* *td*, struct linux\_signal\_args \* *args*)**

Definition at line 174 of file linux\_signal.c.

References linux\_do\_sigaction().

Here is the call graph for this function:

**7.18.1.13 int linux\_sigpending (struct thread \* *td*, struct linux\_sigpending\_args \* *args*)**

Definition at line 375 of file linux\_signal.c.

References bsd\_to\_linux\_sigset().

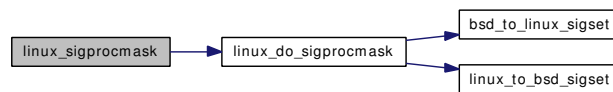
Here is the call graph for this function:

**7.18.1.14 int linux\_sigprocmask (struct thread \* *td*, struct linux\_sigprocmask\_args \* *args*)**

Definition at line 264 of file linux\_signal.c.

References linux\_do\_sigprocmask().

Here is the call graph for this function:

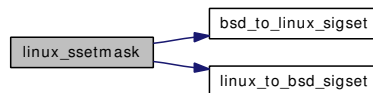


#### 7.18.1.15 `int linux_ssetmask (struct thread * td, struct linux_ssetmask_args * args)`

Definition at line 347 of file linux\_signal.c.

References `bsd_to_linux_sigset()`, and `linux_to_bsd_sigset()`.

Here is the call graph for this function:

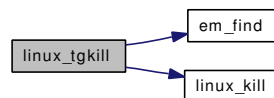


#### 7.18.1.16 `int linux_tgkill (struct thread * td, struct linux_tgkill_args * args)`

Definition at line 539 of file linux\_signal.c.

References `em_find()`, `EMUL_DONTLOCK`, `linux_emuldata_shared::group_pid`, `linux_kill()`, and `linux_emuldata::shared`.

Here is the call graph for this function:



#### 7.18.1.17 `int linux_tkill (struct thread * td, struct linux_tkill_args * args)`

Definition at line 580 of file linux\_signal.c.

References `linux_kill()`.

Here is the call graph for this function:



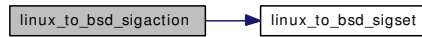
#### 7.18.1.18 `static void linux_to_bsd_sigaction (l_sigaction_t * lsa, struct sigaction * bsa)` [static]

Definition at line 90 of file linux\_signal.c.

References `linux_to_bsd_sigset()`.

Referenced by `linux_do_sigaction()`.

Here is the call graph for this function:



#### 7.18.1.19 void linux\_to\_bsd\_sigset (l\_sigset\_t \* lss, sigset\_t \* bss)

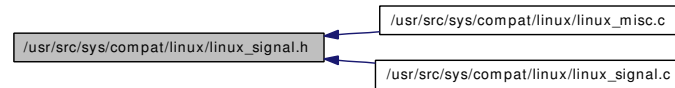
Definition at line 56 of file `linux_signal.c`.

Referenced by `linux_do_sigprocmask()`, `linux_rt_sigtimedwait()`, `linux_ssetmask()`, and `linux_to_bsd_sigaction()`.



## 7.19 /usr/src/sys/compat/linux/linux\_signal.h File Reference

This graph shows which files directly or indirectly include this file:



### Defines

- #define [LINUX\\_SIG\\_VALID](#)(sig) ((sig) <= LINUX\_NSIG && (sig) > 0)

### Functions

- void [linux\\_to\\_bsd\\_sigset](#) (l\_sigset\_t \*, sigset\_t \*)
- void [bsd\\_to\\_linux\\_sigset](#) (sigset\_t \*, l\_sigset\_t \*)
- int [linux\\_do\\_sigaction](#) (struct thread \*, int, l\_sigaction\_t \*, l\_sigaction\_t \*)

#### 7.19.1 Define Documentation

##### 7.19.1.1 #define [LINUX\\_SIG\\_VALID](#)(sig) ((sig) <= LINUX\_NSIG && (sig) > 0)

Definition at line 38 of file linux\_signal.h.

Referenced by linux\_do\_sigaction(), linux\_kill(), and linux\_prctl().

#### 7.19.2 Function Documentation

##### 7.19.2.1 void [bsd\\_to\\_linux\\_sigset](#) (sigset\_t \*, l\_sigset\_t \*)

Definition at line 73 of file linux\_signal.c.

Referenced by bsd\_to\_linux\_sigaction(), linux\_do\_sigprocmask(), linux\_rt\_sigpending(), linux\_sgetmask(), linux\_sigpending(), and linux\_ssetmask().

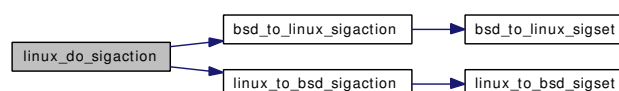
##### 7.19.2.2 int [linux\\_do\\_sigaction](#) (struct thread \*, int, l\_sigaction\_t \*, l\_sigaction\_t \*)

Definition at line 141 of file linux\_signal.c.

References bsd\_to\_linux\_sigaction(), LINUX\_SIG\_VALID, and linux\_to\_bsd\_sigaction().

Referenced by linux\_rt\_sigaction(), and linux\_signal().

Here is the call graph for this function:



### 7.19.2.3 void linux\_to\_bsd\_sigset (l\_sigset\_t \*, sigset\_t \*)

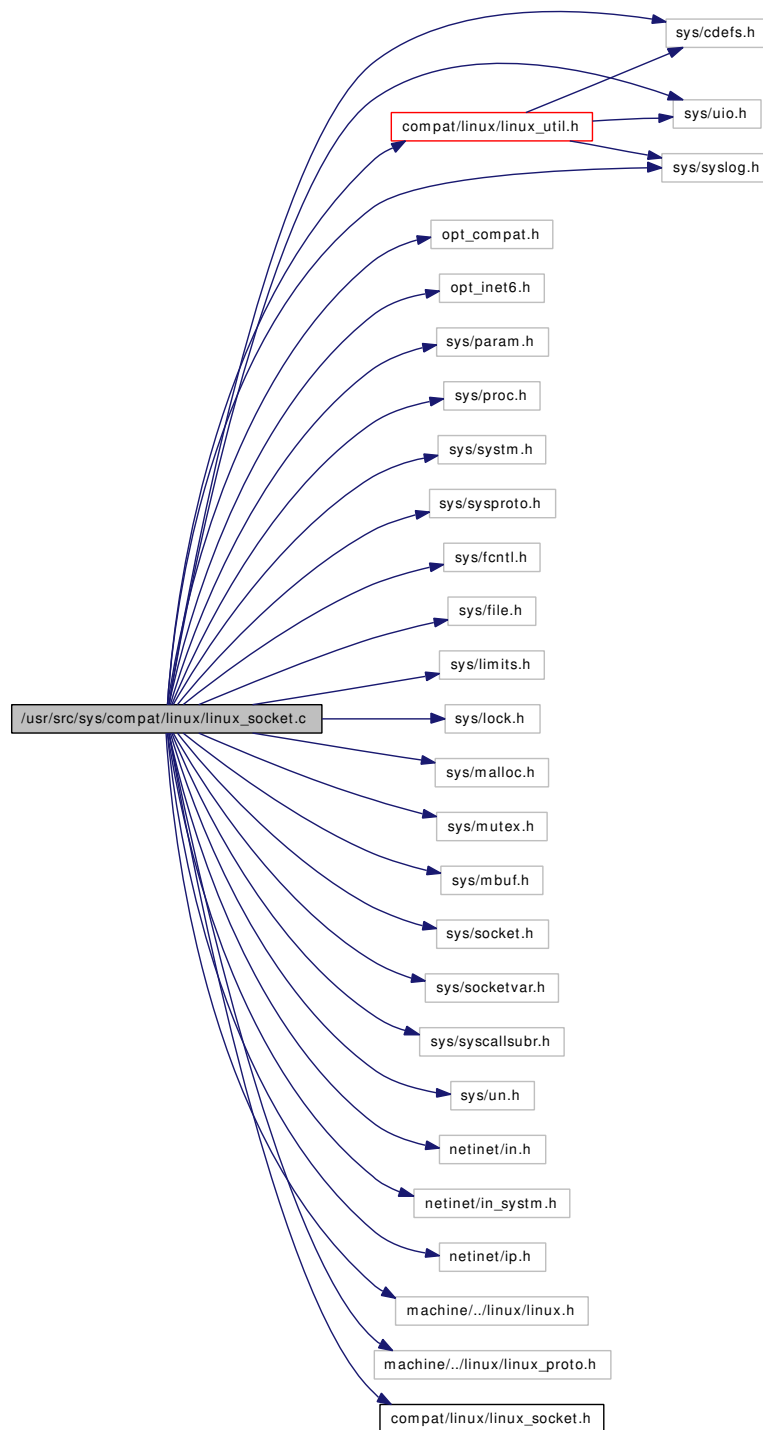
Definition at line 56 of file linux\_signal.c.

Referenced by linux\_do\_sigprocmask(), linux\_rt\_sigtimedwait(), linux\_ssetmask(), and linux\_to\_bsd\_sigaction().

## 7.20 /usr/src/sys/compat/linux/linux\_socket.c File Reference

```
#include <sys/cdefs.h>
#include "opt_compat.h"
#include "opt_inet6.h"
#include <sys/param.h>
#include <sys/proc.h>
#include <sys/system.h>
#include <sys/sysproto.h>
#include <sys/fcntl.h>
#include <sys/file.h>
#include <sys/limits.h>
#include <sys/lock.h>
#include <sys/malloc.h>
#include <sys/mutex.h>
#include <sys/mbuf.h>
#include <sys/socket.h>
#include <sys/socketvar.h>
#include <sys/syscallsubr.h>
#include <sys/uio.h>
#include <sys/syslog.h>
#include <sys/un.h>
#include <netinet/in.h>
#include <netinet/in_system.h>
#include <netinet/ip.h>
#include <machine/../linux/linux.h>
#include <machine/../linux/linux_proto.h>
#include <compat/linux/linux_socket.h>
#include <compat/linux/linux_util.h>
```

Include dependency graph for linux\_socket.c:



## Data Structures

- struct [linux\\_sendto\\_args](#)
- struct [linux\\_socket\\_args](#)
- struct [linux\\_bind\\_args](#)
- struct [linux\\_connect\\_args](#)

- struct [linux\\_listen\\_args](#)
- struct [linux\\_accept\\_args](#)
- struct [linux\\_getsockname\\_args](#)
- struct [linux\\_getpeername\\_args](#)
- struct [linux\\_socketpair\\_args](#)
- struct [linux\\_send\\_args](#)
- struct [linux\\_recv\\_args](#)
- struct [linux\\_recvfrom\\_args](#)
- struct [linux\\_sendmsg\\_args](#)
- struct [linux\\_recvmsg\\_args](#)
- struct [linux\\_shutdown\\_args](#)
- struct [linux\\_setsockopt\\_args](#)
- struct [linux\\_getsockopt\\_args](#)

## Defines

- #define [linux\\_ip\\_copysize](#) 8

## Functions

- [\\_\\_FBSDID](#) ("FreeBSD: src/sys/compat/linux/linux\_socket.c,v 1.72 2007/02/01 13:36:19 kib Exp \$")
- static int [do\\_sa\\_get](#) (struct sockaddr \*\*, const struct osockaddr \*, int \*, struct malloc\_type \*)
- static int [linux\\_to\\_bsd\\_domain](#) (int)
- static int [linux\\_getsockaddr](#) (struct sockaddr \*\*sap, const struct osockaddr \*osa, int len)
- static int [bsd\\_to\\_linux\\_domain](#) (int domain)
- static int [linux\\_to\\_bsd\\_socket\\_level](#) (int level)
- static int [bsd\\_to\\_linux\\_socket\\_level](#) (int level)
- static int [linux\\_to\\_bsd\\_ip\\_socket](#) (int opt)
- static int [linux\\_to\\_bsd\\_so\\_socket](#) (int opt)
- static int [linux\\_to\\_bsd\\_msg\\_flags](#) (int flags)
- static int [bsd\\_to\\_linux\\_sockaddr](#) (struct sockaddr \*arg)
- static int [linux\\_to\\_bsd\\_sockaddr](#) (struct sockaddr \*arg, int len)
- static int [linux\\_sa\\_put](#) (struct osockaddr \*osa)
- static int [linux\\_sendit](#) (struct thread \*td, int s, struct msghdr \*mp, int flags, enum uio\_seg segflg)
- static int [linux\\_check\\_hdrincl](#) (struct thread \*td, int s)
- static int [linux\\_sendto\\_hdrincl](#) (struct thread \*td, struct [linux\\_sendto\\_args](#) \*linux\_args)
- static int [linux\\_socket](#) (struct thread \*td, struct [linux\\_socket\\_args](#) \*args)
- static int [linux\\_bind](#) (struct thread \*td, struct [linux\\_bind\\_args](#) \*args)
- int [linux\\_connect](#) (struct thread \*, struct [linux\\_connect\\_args](#) \*)
- static int [linux\\_listen](#) (struct thread \*td, struct [linux\\_listen\\_args](#) \*args)
- static int [linux\\_accept](#) (struct thread \*td, struct [linux\\_accept\\_args](#) \*args)
- static int [linux\\_getsockname](#) (struct thread \*td, struct [linux\\_getsockname\\_args](#) \*args)
- static int [linux\\_getpeername](#) (struct thread \*td, struct [linux\\_getpeername\\_args](#) \*args)
- static int [linux\\_socketpair](#) (struct thread \*td, struct [linux\\_socketpair\\_args](#) \*args)
- static int [linux\\_send](#) (struct thread \*td, struct [linux\\_send\\_args](#) \*args)
- static int [linux\\_recv](#) (struct thread \*td, struct [linux\\_recv\\_args](#) \*args)
- static int [linux\\_sendto](#) (struct thread \*td, struct [linux\\_sendto\\_args](#) \*args)
- static int [linux\\_recvfrom](#) (struct thread \*td, struct [linux\\_recvfrom\\_args](#) \*args)

- static int `linux_sendmsg` (struct thread \*td, struct `linux_sendmsg_args` \*args)
- static int `linux_recvmsg` (struct thread \*td, struct `linux_recvmsg_args` \*args)
- static int `linux_shutdown` (struct thread \*td, struct `linux_shutdown_args` \*args)
- static int `linux_setsockopt` (struct thread \*td, struct `linux_setsockopt_args` \*args)
- static int `linux_getsockopt` (struct thread \*td, struct `linux_getsockopt_args` \*args)
- int `linux_socketcall` (struct thread \*td, struct `linux_socketcall_args` \*args)

## 7.20.1 Define Documentation

### 7.20.1.1 #define linux\_ip\_copysize 8

Referenced by `linux_sendto_hdrincl()`.

## 7.20.2 Function Documentation

### 7.20.2.1 \_\_FBSDID ("\$FreeBSD: src/sys/compat/linux/linux\_socket.c, v 1.72 2007/02/01 13:36:19 kib Exp \$")

### 7.20.2.2 static int bsd\_to\_linux\_domain (int domain) [static]

Definition at line 198 of file `linux_socket.c`.

Referenced by `linux_sa_put()`.

### 7.20.2.3 static int bsd\_to\_linux\_sockaddr (struct sockaddr \* arg) [static]

Definition at line 361 of file `linux_socket.c`.

Referenced by `linux_accept()`, `linux_getpeername()`, `linux_getsockname()`, `linux_getsockopt()`, `linux_recvfrom()`, `linux_recvmsg()`, and `linux_setsockopt()`.

### 7.20.2.4 static int bsd\_to\_linux\_sockopt\_level (int level) [static]

Definition at line 232 of file `linux_socket.c`.

Referenced by `linux_recvmsg()`.

### 7.20.2.5 static int do\_sa\_get (struct sockaddr \*\*, const struct osockaddr \*, int \*, struct malloc\_type \*) [static]

Definition at line 93 of file `linux_socket.c`.

References `linux_to_bsd_domain()`.

Referenced by `linux_getsockaddr()`.

Here is the call graph for this function:



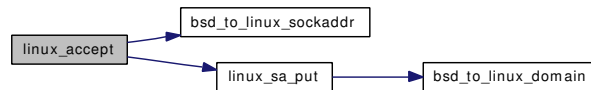
**7.20.2.6 static int linux\_accept (struct thread \* *td*, struct linux\_accept\_args \* *args*)** [static]

Definition at line 720 of file linux\_socket.c.

References `bsd_to_linux_sockaddr()`, `linux_sa_put()`, and `linux_accept_args::s`.

Referenced by `linux_socketcall()`.

Here is the call graph for this function:

**7.20.2.7 static int linux\_bind (struct thread \* *td*, struct linux\_bind\_args \* *args*)** [static]

Definition at line 613 of file linux\_socket.c.

References `linux_getsockaddr()`.

Referenced by `linux_socketcall()`.

Here is the call graph for this function:

**7.20.2.8 static int linux\_check\_hdrincl (struct thread \* *td*, int *s*)** [static]

Definition at line 466 of file linux\_socket.c.

Referenced by `linux_sendto()`.

**7.20.2.9 int linux\_connect (struct thread \*, struct linux\_connect\_args \*)**

Definition at line 642 of file linux\_socket.c.

References `linux_getsockaddr()`.

Referenced by `linux_socketcall()`.

Here is the call graph for this function:

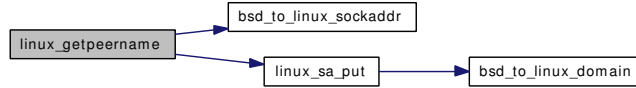
**7.20.2.10 static int linux\_getpeername (struct thread \* *td*, struct linux\_getpeername\_args \* *args*)**  
[static]

Definition at line 804 of file linux\_socket.c.

References `bsd_to_linux_sockaddr()`, `linux_sa_put()`, and `linux_getpeername_args::s`.

Referenced by `linux_socketcall()`.

Here is the call graph for this function:



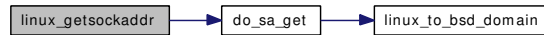
#### 7.20.2.11 `static int linux_getsockaddr (struct sockaddr ** sap, const struct osockaddr * osa, int len) [static]`

Definition at line 81 of file `linux_socket.c`.

References `do_sa_get()`.

Referenced by `linux_bind()`, `linux_connect()`, and `linux_sendit()`.

Here is the call graph for this function:



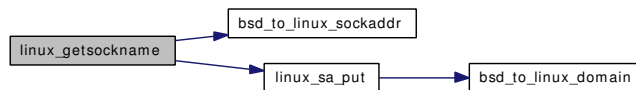
#### 7.20.2.12 `static int linux_getsockname (struct thread * td, struct linux_getsockname_args * args) [static]`

Definition at line 770 of file `linux_socket.c`.

References `bsd_to_linux_sockaddr()`, `linux_sa_put()`, and `linux_getsockname_args::s`.

Referenced by `linux_socketcall()`.

Here is the call graph for this function:



#### 7.20.2.13 `static int linux_getsockopt (struct thread * td, struct linux_getsockopt_args * args) [static]`

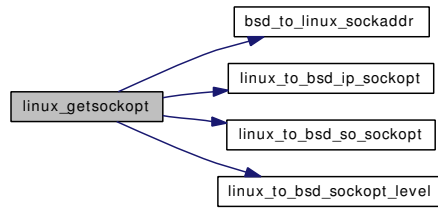
Definition at line 1187 of file `linux_socket.c`.

References `bsd_to_linux_sockaddr()`, `linux_to_bsd_ip_sockopt()`, `linux_to_bsd_so_sockopt()`, `linux_to_bsd_sockopt_level()`, and `linux_getsockopt_args::s`.

Referenced by `linux_socketcall()`.

Here is the call graph for this function:





#### 7.20.2.14 `static int linux_listen (struct thread * td, struct linux\_listen\_args * args)` [static]

Definition at line 696 of file `linux_socket.c`.

References `linux_listen_args::s`.

Referenced by `linux_socketcall()`.

#### 7.20.2.15 `static int linux_recv (struct thread * td, struct linux\_recv\_args * args)` [static]

Definition at line 903 of file `linux_socket.c`.

References `linux_recv_args::s`.

Referenced by `linux_socketcall()`.

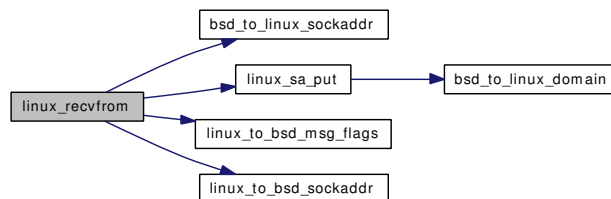
#### 7.20.2.16 `static int linux_recvfrom (struct thread * td, struct linux\_recvfrom\_args * args)` [static]

Definition at line 966 of file `linux_socket.c`.

References `bsd_to_linux_sockaddr()`, `linux_sa_put()`, `linux_to_bsd_msg_flags()`, `linux_to_bsd_sockaddr()`, and `linux_recvfrom_args::s`.

Referenced by `linux_socketcall()`.

Here is the call graph for this function:



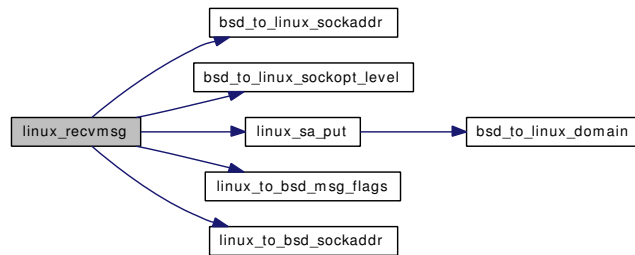
#### 7.20.2.17 `static int linux_recvmsg (struct thread * td, struct linux\_recvmsg\_args * args)` [static]

Definition at line 1049 of file `linux_socket.c`.

References `bsd_to_linux_sockaddr()`, `bsd_to_linux_sockopt_level()`, `linux_sa_put()`, `linux_to_bsd_msg_flags()`, `linux_to_bsd_sockaddr()`, `linux_recvmsg_args::msg`, and `linux_recvmsg_args::s`.

Referenced by `linux_socketcall()`.

Here is the call graph for this function:



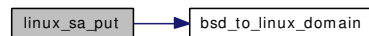
#### 7.20.2.18 static int linux\_sa\_put (struct osockaddr \* osa) [static]

Definition at line 397 of file linux\_socket.c.

References bsd\_to\_linux\_domain().

Referenced by linux\_accept(), linux\_getpeername(), linux\_getsockname(), linux\_recvfrom(), and linux\_recvmsg().

Here is the call graph for this function:



#### 7.20.2.19 static int linux\_send (struct thread \* td, struct linux\_send\_args \* args) [static]

Definition at line 870 of file linux\_socket.c.

References linux\_send\_args::s.

Referenced by linux\_socketcall().

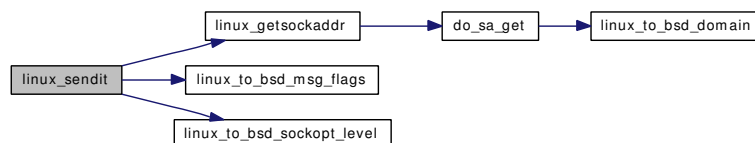
#### 7.20.2.20 static int linux\_sendit (struct thread \* td, int s, struct msghdr \* mp, int flags, enum uio\_seg segflg) [static]

Definition at line 423 of file linux\_socket.c.

References linux\_getsockaddr(), linux\_to\_bsd\_msg\_flags(), and linux\_to\_bsd\_sockopt\_level().

Referenced by linux\_sendmsg(), linux\_sendto(), and linux\_sendto\_hdrincl().

Here is the call graph for this function:



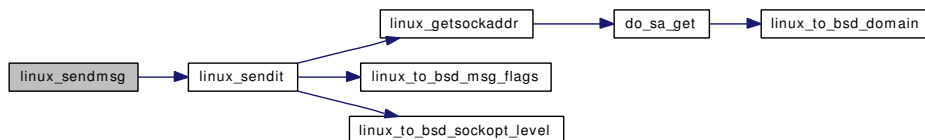
### 7.20.2.21 static int linux\_sendmsg (struct thread \* td, struct linux\_sendmsg\_args \* args) [static]

Definition at line 1016 of file linux\_socket.c.

References linux\_sendit().

Referenced by linux\_socketcall().

Here is the call graph for this function:



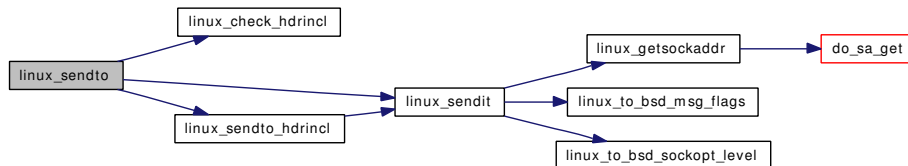
### 7.20.2.22 static int linux\_sendto (struct thread \* td, struct linux\_sendto\_args \* args) [static]

Definition at line 929 of file linux\_socket.c.

References linux\_check\_hdrincl(), linux\_sendit(), and linux\_sendto\_hdrincl().

Referenced by linux\_socketcall().

Here is the call graph for this function:



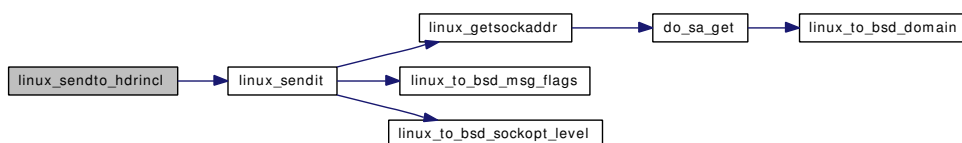
### 7.20.2.23 static int linux\_sendto\_hdrincl (struct thread \* td, struct linux\_sendto\_args \* linux\_args) [static]

Definition at line 493 of file linux\_socket.c.

References linux\_sendto\_args::flags, linux\_sendto\_args::len, linux\_ip\_copysize, linux\_sendit(), linux\_sendto\_args::msg, linux\_sendto\_args::s, linux\_sendto\_args::to, and linux\_sendto\_args::tolen.

Referenced by linux\_sendto().

Here is the call graph for this function:



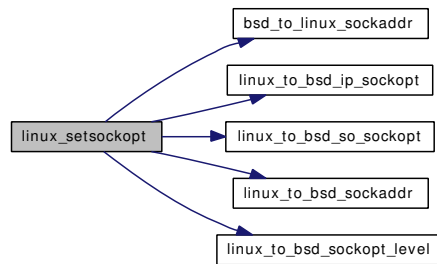
**7.20.2.24 static int linux\_setsockopt (struct thread \* td, struct linux\_setsockopt\_args \* args)**  
 [static]

Definition at line 1128 of file linux\_socket.c.

References bsd\_to\_linux\_sockaddr(), linux\_to\_bsd\_ip\_sockopt(), linux\_to\_bsd\_so\_sockopt(), linux\_to\_bsd\_sockaddr(), linux\_to\_bsd\_sockopt\_level(), and linux\_setsockopt\_args::s.

Referenced by linux\_socketcall().

Here is the call graph for this function:



**7.20.2.25 static int linux\_shutdown (struct thread \* td, struct linux\_shutdown\_args \* args)**  
 [static]

Definition at line 1102 of file linux\_socket.c.

References linux\_shutdown\_args::s.

Referenced by linux\_socketcall().

**7.20.2.26 static int linux\_socket (struct thread \* td, struct linux\_socket\_args \* args)** [static]

Definition at line 546 of file linux\_socket.c.

References linux\_to\_bsd\_domain(), and linux\_socket\_args::protocol.

Referenced by linux\_socketcall().

Here is the call graph for this function:

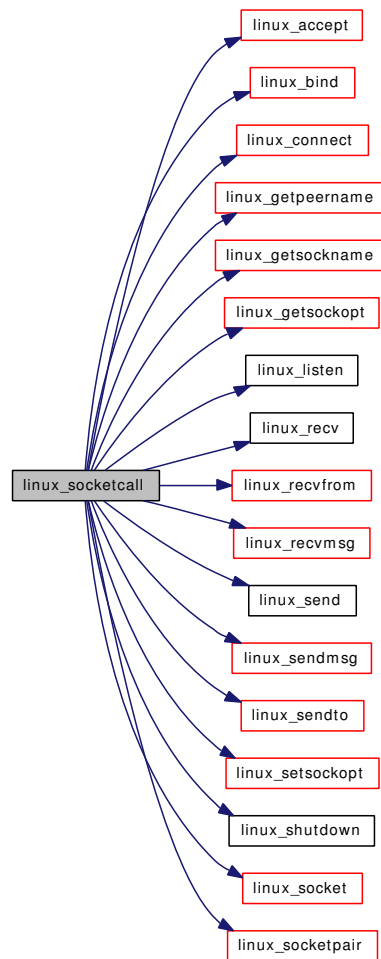


**7.20.2.27 int linux\_socketcall (struct thread \* td, struct linux\_socketcall\_args \* args)**

Definition at line 1236 of file linux\_socket.c.

References linux\_accept(), linux\_bind(), linux\_connect(), linux\_getpeername(), linux\_getsockname(), linux\_getsockopt(), linux\_listen(), linux\_recv(), linux\_recvfrom(), linux\_recvmsg(), linux\_send(), linux\_sendmsg(), linux\_sendto(), linux\_setsockopt(), linux\_shutdown(), linux\_socket(), and linux\_socketpair().

Here is the call graph for this function:



**7.20.2.28** `static int linux_socketpair (struct thread * td, struct linux\_socketpair\_args * args)`  
`[static]`

Definition at line 838 of file `linux_socket.c`.

References `linux_socketpair_args::domain`, and `linux_to_bsd_domain()`.

Referenced by `linux_socketcall()`.

Here is the call graph for this function:



**7.20.2.29** `static int linux_to_bsd_domain (int)` `[static]`

Definition at line 175 of file `linux_socket.c`.

Referenced by `do_sa_get()`, `linux_socket()`, and `linux_socketpair()`.

**7.20.2.30 static int linux\_to\_bsd\_ip\_sockopt (int *opt*)** [static]

Definition at line 243 of file linux\_socket.c.

Referenced by linux\_getsockopt(), and linux\_setsockopt().

**7.20.2.31 static int linux\_to\_bsd\_msg\_flags (int *flags*)** [static]

Definition at line 315 of file linux\_socket.c.

References LINUX\_MSG\_CONFIRM, LINUX\_MSG\_CTRUNC, LINUX\_MSG\_DONTROUTE, LINUX\_MSG\_DONTWAIT, LINUX\_MSG\_EOR, LINUX\_MSG\_ERRQUEUE, LINUX\_MSG\_FIN, LINUX\_MSG\_NOSIGNAL, LINUX\_MSG\_OOB, LINUX\_MSG\_PEEK, LINUX\_MSG\_PROXY, LINUX\_MSG\_RST, LINUX\_MSG\_SYN, LINUX\_MSG\_TRUNC, and LINUX\_MSG\_WAITALL.

Referenced by linux\_recvfrom(), linux\_recvmsg(), and linux\_sendit().

**7.20.2.32 static int linux\_to\_bsd\_so\_sockopt (int *opt*)** [static]

Definition at line 270 of file linux\_socket.c.

Referenced by linux\_getsockopt(), and linux\_setsockopt().

**7.20.2.33 static int linux\_to\_bsd\_sockaddr (struct sockaddr \* *arg*, int *len*)** [static]

Definition at line 378 of file linux\_socket.c.

Referenced by linux\_recvfrom(), linux\_recvmsg(), and linux\_setsockopt().

**7.20.2.34 static int linux\_to\_bsd\_sockopt\_level (int *level*)** [static]

Definition at line 221 of file linux\_socket.c.

Referenced by linux\_getsockopt(), linux\_sendit(), and linux\_setsockopt().

## 7.21 /usr/src/sys/compat/linux/linux\_socket.h File Reference

This graph shows which files directly or indirectly include this file:



### Defines

- #define [LINUX\\_MSG\\_OOB](#) 0x01
- #define [LINUX\\_MSG\\_PEEK](#) 0x02
- #define [LINUX\\_MSG\\_DONTROUTE](#) 0x04
- #define [LINUX\\_MSG\\_CTRUNC](#) 0x08
- #define [LINUX\\_MSG\\_PROXY](#) 0x10
- #define [LINUX\\_MSG\\_TRUNC](#) 0x20
- #define [LINUX\\_MSG\\_DONTWAIT](#) 0x40
- #define [LINUX\\_MSG\\_EOR](#) 0x80
- #define [LINUX\\_MSG\\_WAITALL](#) 0x100
- #define [LINUX\\_MSG\\_FIN](#) 0x200
- #define [LINUX\\_MSG\\_SYN](#) 0x400
- #define [LINUX\\_MSG\\_CONFIRM](#) 0x800
- #define [LINUX\\_MSG\\_RST](#) 0x1000
- #define [LINUX\\_MSG\\_ERRQUEUE](#) 0x2000
- #define [LINUX\\_MSG\\_NOSIGNAL](#) 0x4000

### 7.21.1 Define Documentation

#### 7.21.1.1 #define LINUX\_MSG\_CONFIRM 0x800

Definition at line 47 of file linux\_socket.h.

Referenced by linux\_to\_bsd\_msg\_flags().

#### 7.21.1.2 #define LINUX\_MSG\_CTRUNC 0x08

Definition at line 39 of file linux\_socket.h.

Referenced by linux\_to\_bsd\_msg\_flags().

#### 7.21.1.3 #define LINUX\_MSG\_DONTROUTE 0x04

Definition at line 38 of file linux\_socket.h.

Referenced by linux\_to\_bsd\_msg\_flags().

#### 7.21.1.4 #define LINUX\_MSG\_DONTWAIT 0x40

Definition at line 42 of file linux\_socket.h.

Referenced by linux\_to\_bsd\_msg\_flags().

**7.21.1.5 #define LINUX\_MSG\_EOR 0x80**

Definition at line 43 of file linux\_socket.h.

Referenced by linux\_to\_bsd\_msg\_flags().

**7.21.1.6 #define LINUX\_MSG\_ERRQUEUE 0x2000**

Definition at line 49 of file linux\_socket.h.

Referenced by linux\_to\_bsd\_msg\_flags().

**7.21.1.7 #define LINUX\_MSG\_FIN 0x200**

Definition at line 45 of file linux\_socket.h.

Referenced by linux\_to\_bsd\_msg\_flags().

**7.21.1.8 #define LINUX\_MSG\_NOSIGNAL 0x4000**

Definition at line 50 of file linux\_socket.h.

Referenced by linux\_to\_bsd\_msg\_flags().

**7.21.1.9 #define LINUX\_MSG\_OOB 0x01**

Definition at line 36 of file linux\_socket.h.

Referenced by linux\_to\_bsd\_msg\_flags().

**7.21.1.10 #define LINUX\_MSG\_PEEK 0x02**

Definition at line 37 of file linux\_socket.h.

Referenced by linux\_to\_bsd\_msg\_flags().

**7.21.1.11 #define LINUX\_MSG\_PROXY 0x10**

Definition at line 40 of file linux\_socket.h.

Referenced by linux\_to\_bsd\_msg\_flags().

**7.21.1.12 #define LINUX\_MSG\_RST 0x1000**

Definition at line 48 of file linux\_socket.h.

Referenced by linux\_to\_bsd\_msg\_flags().

**7.21.1.13 #define LINUX\_MSG\_SYN 0x400**

Definition at line 46 of file linux\_socket.h.

Referenced by linux\_to\_bsd\_msg\_flags().



**7.21.1.14 #define LINUX\_MSG\_TRUNC 0x20**

Definition at line 41 of file linux\_socket.h.

Referenced by linux\_to\_bsd\_msg\_flags().

**7.21.1.15 #define LINUX\_MSG\_WAITALL 0x100**

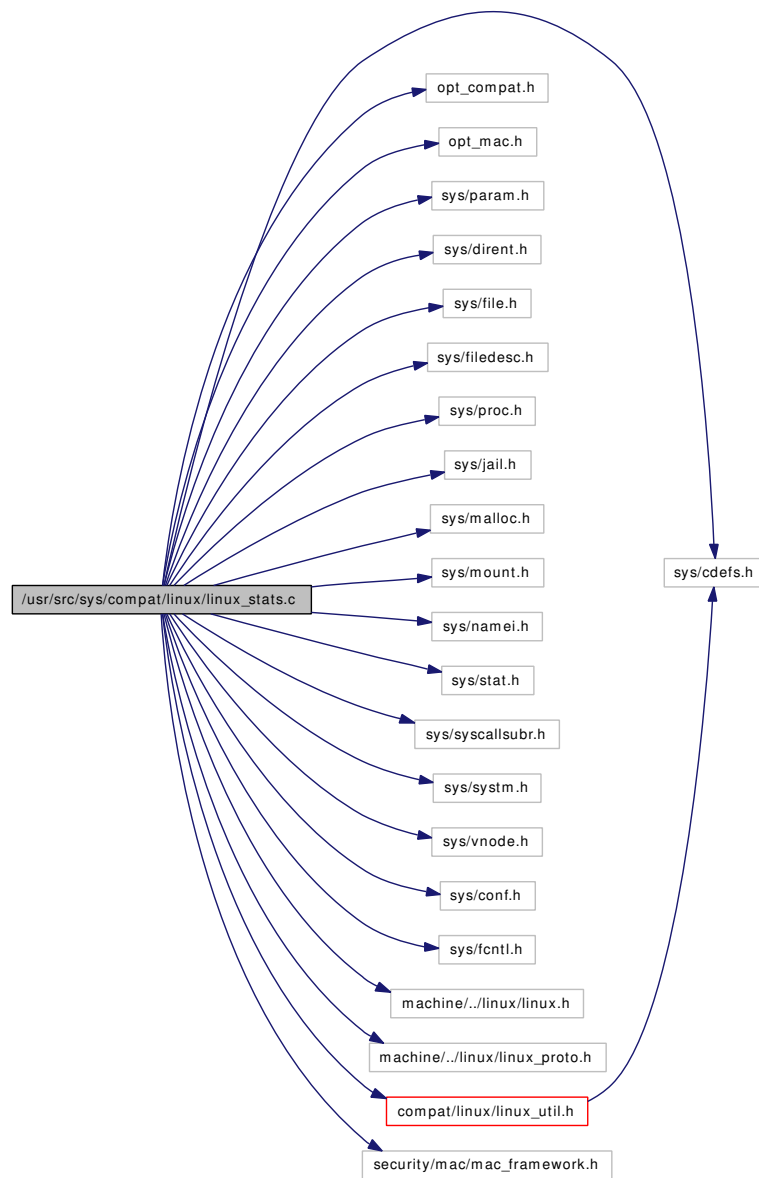
Definition at line 44 of file linux\_socket.h.

Referenced by linux\_to\_bsd\_msg\_flags().

## 7.22 /usr/src/sys/compat/linux/linux\_stats.c File Reference

```
#include <sys/cdefs.h>
#include "opt_compat.h"
#include "opt_mac.h"
#include <sys/param.h>
#include <sys/dirent.h>
#include <sys/file.h>
#include <sys/filedesc.h>
#include <sys/proc.h>
#include <sys/jail.h>
#include <sys/malloc.h>
#include <sys/mount.h>
#include <sys/namei.h>
#include <sys/stat.h>
#include <sys/syscallsubr.h>
#include <sys/system.h>
#include <sys/vnode.h>
#include <sys/conf.h>
#include <sys/fcntl.h>
#include <machine/./linux/linux.h>
#include <machine/./linux/linux_proto.h>
#include <compat/linux/linux_util.h>
#include <security/mac/mac_framework.h>
```

Include dependency graph for linux\_stats.c:



## Data Structures

- struct [l\\_statfs](#)
- struct [l\\_statfs64](#)
- struct [l\\_ustat](#)

## Defines

- #define [LINUX\\_CODA\\_SUPER\\_MAGIC](#) 0x73757245L
- #define [LINUX\\_EXT2\\_SUPER\\_MAGIC](#) 0xEF53L
- #define [LINUX\\_HPFS\\_SUPER\\_MAGIC](#) 0xf995e849L
- #define [LINUX\\_ISOFS\\_SUPER\\_MAGIC](#) 0x9660L

- #define `LINUX_MSDOS_SUPER_MAGIC` 0x4d44L
- #define `LINUX_NCP_SUPER_MAGIC` 0x564cL
- #define `LINUX_NFS_SUPER_MAGIC` 0x6969L
- #define `LINUX_NTFS_SUPER_MAGIC` 0x5346544EL
- #define `LINUX_PROC_SUPER_MAGIC` 0x9fa0L
- #define `LINUX_UFS_SUPER_MAGIC` 0x00011954L
- #define `LINUX_DEVFS_SUPER_MAGIC` 0x1373L

## Functions

- `__FBSDDID` ("FreeBSD: src/sys/compat/linux/linux\_stats.c,v 1.86 2006/12/04 22:38:52 jkim Exp \$")
- static void `translate_fd_major_minor` (struct thread \*td, int fd, struct stat \*buf)
- static void `translate_path_major_minor` (struct thread \*td, char \*path, struct stat \*buf)
- static int `newstat_copyout` (struct stat \*buf, void \*ubuf)
- int `linux_newstat` (struct thread \*td, struct linux\_newstat\_args \*args)
- int `linux_newlstat` (struct thread \*td, struct linux\_newlstat\_args \*args)
- int `linux_newfstat` (struct thread \*td, struct linux\_newfstat\_args \*args)
- static int `stat_copyout` (struct stat \*buf, void \*ubuf)
- int `linux_stat` (struct thread \*td, struct linux\_stat\_args \*args)
- int `linux_lstat` (struct thread \*td, struct linux\_lstat\_args \*args)
- static long `bsd_to_linux_ftype` (const char \*fstypename)
- static void `bsd_to_linux_statfs` (struct statfs \*bsd\_statfs, struct `l_statfs` \*linux\_statfs)
- int `linux_statfs` (struct thread \*td, struct linux\_statfs\_args \*args)
- static void `bsd_to_linux_statfs64` (struct statfs \*bsd\_statfs, struct `l_statfs64` \*linux\_statfs)
- int `linux_statfs64` (struct thread \*td, struct linux\_statfs64\_args \*args)
- int `linux_fstatfs` (struct thread \*td, struct linux\_fstatfs\_args \*args)
- int `linux_ustat` (struct thread \*td, struct linux\_ustat\_args \*args)

### 7.22.1 Define Documentation

#### 7.22.1.1 #define LINUX\_CODA\_SUPER\_MAGIC 0x73757245L

Definition at line 326 of file `linux_stats.c`.

Referenced by `bsd_to_linux_ftype()`.

#### 7.22.1.2 #define LINUX\_DEVFS\_SUPER\_MAGIC 0x1373L

Definition at line 336 of file `linux_stats.c`.

Referenced by `bsd_to_linux_ftype()`.

#### 7.22.1.3 #define LINUX\_EXT2\_SUPER\_MAGIC 0xEF53L

Definition at line 327 of file `linux_stats.c`.

Referenced by `bsd_to_linux_ftype()`.

**7.22.1.4 #define LINUX\_HPFS\_SUPER\_MAGIC 0xf995e849L**

Definition at line 328 of file linux\_stats.c.

Referenced by `bsd_to_linux_fstype()`.

**7.22.1.5 #define LINUX\_ISOFS\_SUPER\_MAGIC 0x9660L**

Definition at line 329 of file linux\_stats.c.

Referenced by `bsd_to_linux_fstype()`.

**7.22.1.6 #define LINUX\_MSDFS\_SUPER\_MAGIC 0x4d44L**

Definition at line 330 of file linux\_stats.c.

Referenced by `bsd_to_linux_fstype()`.

**7.22.1.7 #define LINUX\_NCP\_SUPER\_MAGIC 0x564cL**

Definition at line 331 of file linux\_stats.c.

Referenced by `bsd_to_linux_fstype()`.

**7.22.1.8 #define LINUX\_NFS\_SUPER\_MAGIC 0x6969L**

Definition at line 332 of file linux\_stats.c.

Referenced by `bsd_to_linux_fstype()`.

**7.22.1.9 #define LINUX\_NTFS\_SUPER\_MAGIC 0x5346544EL**

Definition at line 333 of file linux\_stats.c.

Referenced by `bsd_to_linux_fstype()`.

**7.22.1.10 #define LINUX\_PROC\_SUPER\_MAGIC 0x9fa0L**

Definition at line 334 of file linux\_stats.c.

Referenced by `bsd_to_linux_fstype()`.

**7.22.1.11 #define LINUX\_UFS\_SUPER\_MAGIC 0x00011954L**

Definition at line 335 of file linux\_stats.c.

Referenced by `bsd_to_linux_fstype()`.

## 7.22.2 Function Documentation

**7.22.2.1** `__FBSDID ("$FreeBSD: src/sys/compat/linux/linux_stats.c, v 1.86 2006/12/04 22:38:52 jkim Exp $")`

**7.22.2.2** `static long bsd_to_linux_fstype (const char * fstypename) [static]`

Definition at line 339 of file `linux_stats.c`.

References `LINUX_CODA_SUPER_MAGIC`, `LINUX_DEVFS_SUPER_MAGIC`, `LINUX_EXT2_SUPER_MAGIC`, `LINUX_HPFS_SUPER_MAGIC`, `LINUX_ISOFS_SUPER_MAGIC`, `LINUX_MSDOS_SUPER_MAGIC`, `LINUX_NCP_SUPER_MAGIC`, `LINUX_NFS_SUPER_MAGIC`, `LINUX_NTFS_SUPER_MAGIC`, `LINUX_PROC_SUPER_MAGIC`, and `LINUX_UFS_SUPER_MAGIC`.

Referenced by `bsd_to_linux_statfs()`, and `bsd_to_linux_statfs64()`.

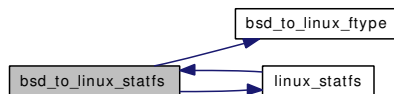
**7.22.2.3** `static void bsd_to_linux_statfs (struct statfs * bsd_statfs, struct l_statfs * linux_statfs) [static]`

Definition at line 364 of file `linux_stats.c`.

References `bsd_to_linux_fstype()`, and `linux_statfs()`.

Referenced by `linux_fstatfs()`, and `linux_statfs()`.

Here is the call graph for this function:



**7.22.2.4** `static void bsd_to_linux_statfs64 (struct statfs * bsd_statfs, struct l_statfs64 * linux_statfs) [static]`

Definition at line 402 of file `linux_stats.c`.

References `bsd_to_linux_fstype()`, and `linux_statfs()`.

Referenced by `linux_statfs64()`.

Here is the call graph for this function:

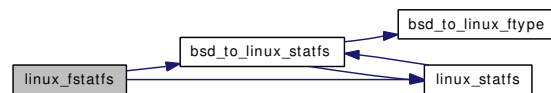


**7.22.2.5** `int linux_fstatfs (struct thread * td, struct linux_fstatfs_args * args)`

Definition at line 440 of file `linux_stats.c`.

References `bsd_to_linux_statfs()`, and `linux_statfs()`.

Here is the call graph for this function:



### 7.22.2.6 int linux\_lstat (struct thread \* td, struct linux\_lstat\_args \* args)

Definition at line 283 of file linux\_stats.c.

References stat\_copyout(), and translate\_path\_major\_minor().

Here is the call graph for this function:

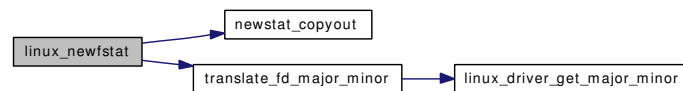


### 7.22.2.7 int linux\_newfstat (struct thread \* td, struct linux\_newfstat\_args \* args)

Definition at line 220 of file linux\_stats.c.

References newstat\_copyout(), and translate\_fd\_major\_minor().

Here is the call graph for this function:



### 7.22.2.8 int linux\_newlstat (struct thread \* td, struct linux\_newlstat\_args \* args)

Definition at line 197 of file linux\_stats.c.

References LCONVPATHEXIST, LFREEPATH, newstat\_copyout(), and translate\_path\_major\_minor().

Here is the call graph for this function:



### 7.22.2.9 int linux\_newstat (struct thread \* td, struct linux\_newstat\_args \* args)

Definition at line 163 of file linux\_stats.c.

References LCONVPATHEXIST, LFREEPATH, newstat\_copyout(), and translate\_path\_major\_minor().

Here is the call graph for this function:

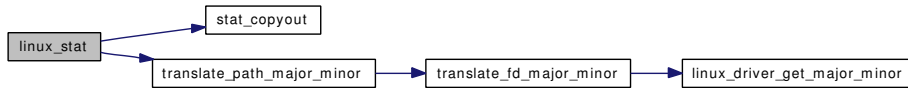


#### 7.22.2.10 int linux\_stat (struct thread \* td, struct linux\_stat\_args \* args)

Definition at line 267 of file linux\_stats.c.

References stat\_copyout(), and translate\_path\_major\_minor().

Here is the call graph for this function:



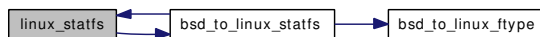
#### 7.22.2.11 int linux\_statfs (struct thread \* td, struct linux\_statfs\_args \* args)

Definition at line 380 of file linux\_stats.c.

References bsd\_to\_linux\_statfs(), LCONVPATHEXIST, and LFREEPATH.

Referenced by bsd\_to\_linux\_statfs(), bsd\_to\_linux\_statfs64(), linux\_fstatfs(), and linux\_statfs64().

Here is the call graph for this function:



#### 7.22.2.12 int linux\_statfs64 (struct thread \* td, struct linux\_statfs64\_args \* args)

Definition at line 418 of file linux\_stats.c.

References bsd\_to\_linux\_statfs64(), LCONVPATHEXIST, LFREEPATH, and linux\_statfs().

Here is the call graph for this function:



#### 7.22.2.13 int linux\_ustat (struct thread \* td, struct linux\_ustat\_args \* args)

Definition at line 466 of file linux\_stats.c.



**7.22.2.14** `static int newstat_copyout (struct stat * buf, void * ubuf)` [static]

Definition at line 140 of file linux\_stats.c.

Referenced by linux\_newfstat(), linux\_newlstat(), and linux\_newstat().

**7.22.2.15** `static int stat_copyout (struct stat * buf, void * ubuf)` [static]

Definition at line 239 of file linux\_stats.c.

Referenced by linux\_lstat(), and linux\_stat().

**7.22.2.16** `static void translate_fd_major_minor (struct thread * td, int fd, struct stat * buf)`  
[static]

Definition at line 100 of file linux\_stats.c.

References linux\_driver\_get\_major\_minor().

Referenced by linux\_newfstat(), and translate\_path\_major\_minor().

Here is the call graph for this function:

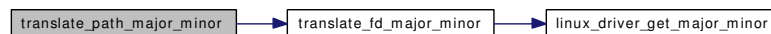
**7.22.2.17** `static void translate_path_major_minor (struct thread * td, char * path, struct stat * buf)`  
[static]

Definition at line 117 of file linux\_stats.c.

References translate\_fd\_major\_minor().

Referenced by linux\_lstat(), linux\_newlstat(), linux\_newstat(), and linux\_stat().

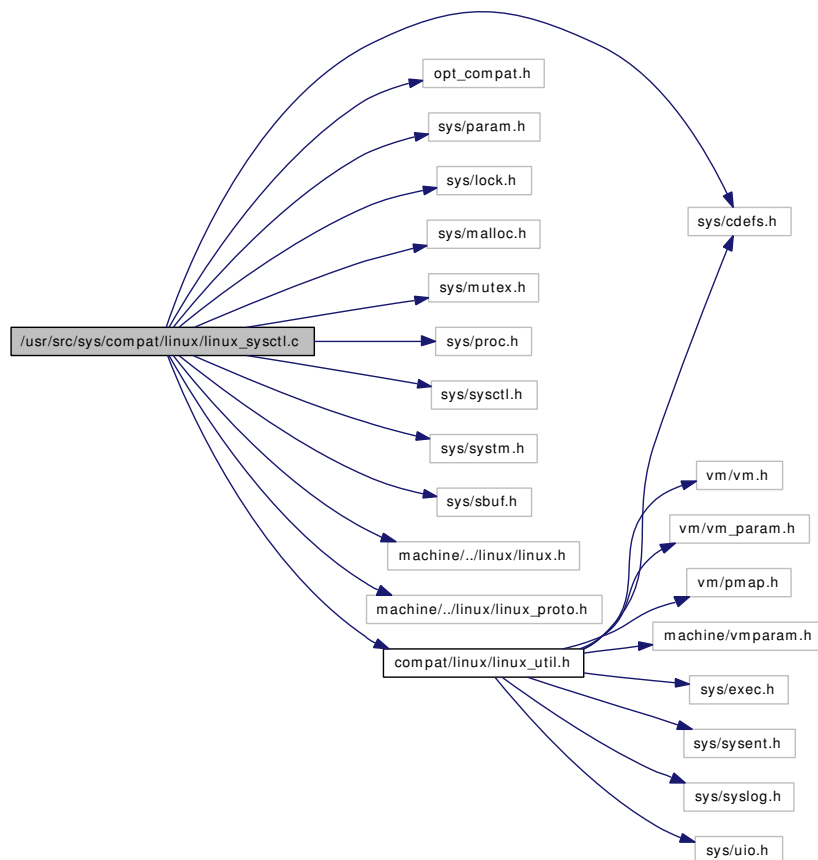
Here is the call graph for this function:



## 7.23 /usr/src/sys/compat/linux/linux\_sysctl.c File Reference

```
#include <sys/cdefs.h>
#include "opt_compat.h"
#include <sys/param.h>
#include <sys/lock.h>
#include <sys/malloc.h>
#include <sys/mutex.h>
#include <sys/proc.h>
#include <sys/sysctl.h>
#include <sys/system.h>
#include <sys/sbuf.h>
#include <machine/./linux/linux.h>
#include <machine/./linux/linux_proto.h>
#include <compat/linux/linux_util.h>
```

Include dependency graph for linux\_sysctl.c:



## Defines

- #define [LINUX\\_CTL\\_KERN](#) 1
- #define [LINUX\\_CTL\\_VM](#) 2
- #define [LINUX\\_CTL\\_NET](#) 3
- #define [LINUX\\_CTL\\_PROC](#) 4
- #define [LINUX\\_CTL\\_FS](#) 5
- #define [LINUX\\_CTL\\_DEBUG](#) 6
- #define [LINUX\\_CTL\\_DEV](#) 7
- #define [LINUX\\_CTL\\_BUS](#) 8
- #define [LINUX\\_KERN\\_OSTYPE](#) 1
- #define [LINUX\\_KERN\\_OSRELEASE](#) 2
- #define [LINUX\\_KERN\\_OSREV](#) 3
- #define [LINUX\\_KERN\\_VERSION](#) 4

## Functions

- [\\_\\_FBSDID](#) ("FreeBSD: src/sys/compat/linux/linux\_sysctl.c,v 1.17 2006/03/19 11:10:33 ru Exp \$")
- static int [handle\\_string](#) (struct l\_\_sysctl\_args \*la, char \*value)
- int [linux\\_sysctl](#) (struct thread \*td, struct linux\_sysctl\_args \*args)

### 7.23.1 Define Documentation

#### 7.23.1.1 #define LINUX\_CTL\_BUS 8

Definition at line 60 of file linux\_sysctl.c.

#### 7.23.1.2 #define LINUX\_CTL\_DEBUG 6

Definition at line 58 of file linux\_sysctl.c.

#### 7.23.1.3 #define LINUX\_CTL\_DEV 7

Definition at line 59 of file linux\_sysctl.c.

#### 7.23.1.4 #define LINUX\_CTL\_FS 5

Definition at line 57 of file linux\_sysctl.c.

#### 7.23.1.5 #define LINUX\_CTL\_KERN 1

Definition at line 53 of file linux\_sysctl.c.

Referenced by [linux\\_sysctl\(\)](#).

#### 7.23.1.6 #define LINUX\_CTL\_NET 3

Definition at line 55 of file linux\_sysctl.c.

**7.23.1.7 #define LINUX\_CTL\_PROC 4**

Definition at line 56 of file linux\_sysctl.c.

**7.23.1.8 #define LINUX\_CTL\_VM 2**

Definition at line 54 of file linux\_sysctl.c.

**7.23.1.9 #define LINUX\_KERN\_OSRELEASE 2**

Definition at line 64 of file linux\_sysctl.c.

**7.23.1.10 #define LINUX\_KERN\_OSREV 3**

Definition at line 65 of file linux\_sysctl.c.

**7.23.1.11 #define LINUX\_KERN\_OSTYPE 1**

Definition at line 63 of file linux\_sysctl.c.

**7.23.1.12 #define LINUX\_KERN\_VERSION 4**

Definition at line 66 of file linux\_sysctl.c.

Referenced by linux\_sysctl().

**7.23.2 Function Documentation****7.23.2.1 \_\_FBSDID ("\$FreeBSD: src/sys/compat/linux/linux\_sysctl.c, v 1.17 2006/03/19 11:10:33 ru Exp \$")****7.23.2.2 static int handle\_string (struct l\_\_sysctl\_args \* la, char \* value) [static]**

Definition at line 69 of file linux\_sysctl.c.

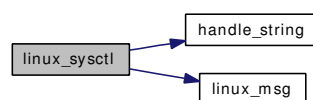
Referenced by linux\_sysctl().

**7.23.2.3 int linux\_sysctl (struct thread \* td, struct linux\_sysctl\_args \* args)**

Definition at line 89 of file linux\_sysctl.c.

References handle\_string(), LINUX\_CTL\_KERN, LINUX\_KERN\_VERSION, and linux\_msg().

Here is the call graph for this function:



## 7.24 /usr/src/sys/compat/linux/linux\_sysproto.h File Reference

This graph shows which files directly or indirectly include this file:



### Functions

- int [linux\\_nosys](#) (struct thread \*, struct nosys\_args \*)

#### 7.24.1 Function Documentation

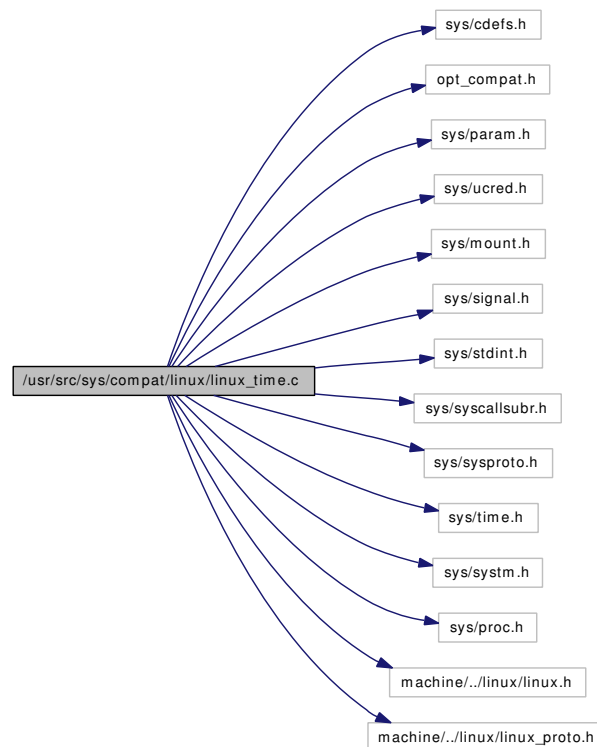
##### 7.24.1.1 int linux\_nosys (struct thread \*, struct nosys\_args \*)

Definition at line 1557 of file linux\_misc.c.

## 7.25 /usr/src/sys/compat/linux/linux\_time.c File Reference

```
#include <sys/cdefs.h>
#include "opt_compat.h"
#include <sys/param.h>
#include <sys/ucred.h>
#include <sys/mount.h>
#include <sys/signal.h>
#include <sys/stdint.h>
#include <sys/syscallsubr.h>
#include <sys/sysproto.h>
#include <sys/time.h>
#include <sys/system.h>
#include <sys/proc.h>
#include <machine/./linux/linux.h>
#include <machine/./linux/linux_proto.h>
```

Include dependency graph for linux\_time.c:



## Functions

- `__FBSDID` ("\$FreeBSD: src/sys/compat/linux/linux\_time.c,v 1.2 2006/12/20 20:17:34 jkim Exp \$")
- static void `native_to_linux_timespec` (struct l\_timespec \*, struct timespec \*)
- static int `linux_to_native_timespec` (struct timespec \*, struct l\_timespec \*)
- static int `linux_to_native_clockid` (clockid\_t \*, clockid\_t)
- int `linux_clock_gettime` (struct thread \*td, struct linux\_clock\_gettime\_args \*args)
- int `linux_clock_settime` (struct thread \*td, struct linux\_clock\_settime\_args \*args)
- int `linux_clock_getres` (struct thread \*td, struct linux\_clock\_getres\_args \*args)
- int `linux_nanosleep` (struct thread \*td, struct linux\_nanosleep\_args \*args)
- int `linux_clock_nanosleep` (struct thread \*td, struct linux\_clock\_nanosleep\_args \*args)

### 7.25.1 Function Documentation

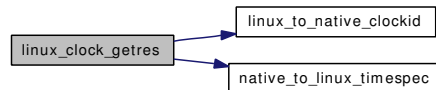
**7.25.1.1** `__FBSDID` ("\$FreeBSD: src/sys/compat/linux/linux\_time.c, v 1.2 2006/12/20 20:17:34 jkim Exp \$")

**7.25.1.2** `int linux_clock_getres` (struct thread \* *td*, struct linux\_clock\_getres\_args \* *args*)

Definition at line 153 of file linux\_time.c.

References `linux_to_native_clockid()`, and `native_to_linux_timespec()`.

Here is the call graph for this function:

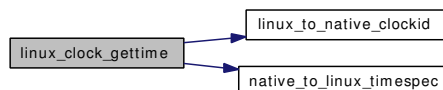


**7.25.1.3** `int linux_clock_gettime` (struct thread \* *td*, struct linux\_clock\_gettime\_args \* *args*)

Definition at line 113 of file linux\_time.c.

References `linux_to_native_clockid()`, and `native_to_linux_timespec()`.

Here is the call graph for this function:

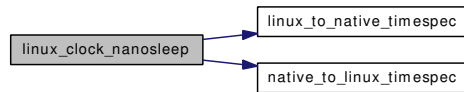


**7.25.1.4** `int linux_clock_nanosleep` (struct thread \* *td*, struct linux\_clock\_nanosleep\_args \* *args*)

Definition at line 209 of file linux\_time.c.

References `linux_to_native_timespec()`, and `native_to_linux_timespec()`.

Here is the call graph for this function:

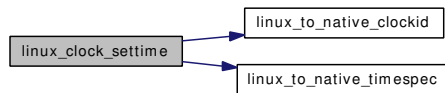


#### 7.25.1.5 `int linux_clock_settime (struct thread * td, struct linux_clock_settime_args * args)`

Definition at line 132 of file `linux_time.c`.

References `linux_to_native_clockid()`, and `linux_to_native_timespec()`.

Here is the call graph for this function:

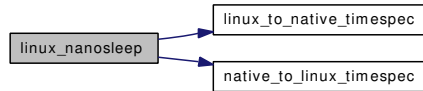


#### 7.25.1.6 `int linux_nanosleep (struct thread * td, struct linux_nanosleep_args * args)`

Definition at line 175 of file `linux_time.c`.

References `linux_to_native_timespec()`, and `native_to_linux_timespec()`.

Here is the call graph for this function:



#### 7.25.1.7 `static int linux_to_native_clockid (clockid_t *, clockid_t) [static]`

Definition at line 91 of file `linux_time.c`.

Referenced by `linux_clock_getres()`, `linux_clock_gettime()`, and `linux_clock_settime()`.

#### 7.25.1.8 `static int linux_to_native_timespec (struct timespec *, struct l_timespec *) [static]`

Definition at line 80 of file `linux_time.c`.

Referenced by `linux_clock_nanosleep()`, `linux_clock_settime()`, and `linux_nanosleep()`.

#### 7.25.1.9 `static void native_to_linux_timespec (struct l_timespec *, struct timespec *) [static]`

Definition at line 73 of file `linux_time.c`.

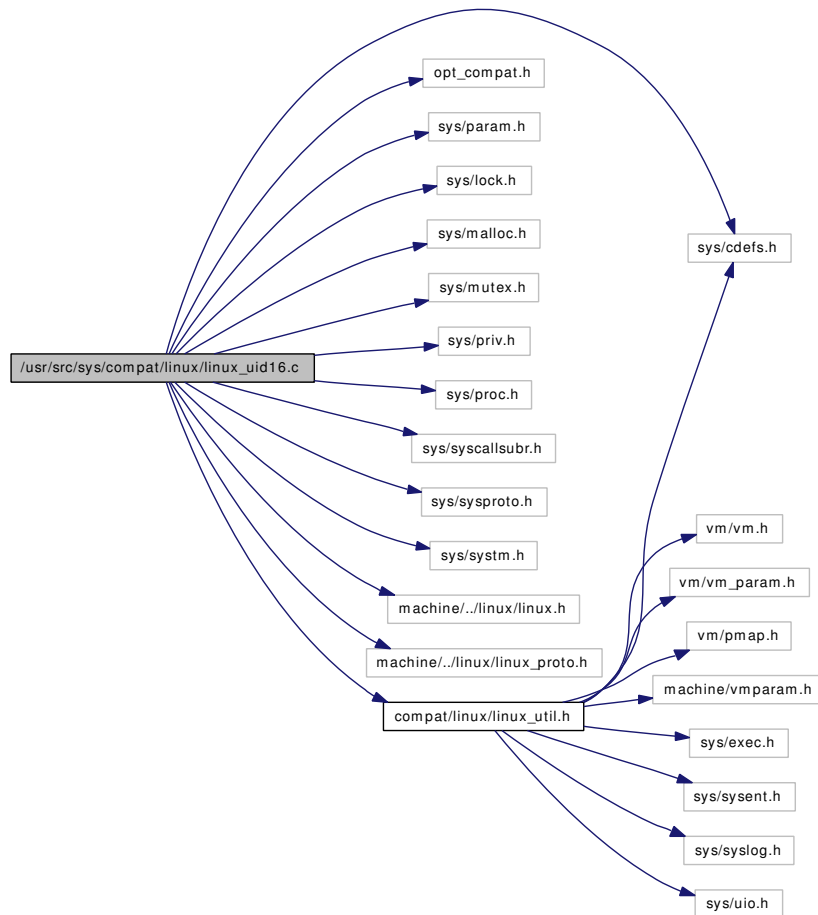
Referenced by `linux_clock_getres()`, `linux_clock_gettime()`, `linux_clock_nanosleep()`, and `linux_nanosleep()`.



## 7.26 /usr/src/sys/compat/linux/linux\_uid16.c File Reference

```
#include <sys/cdefs.h>
#include "opt_compat.h"
#include <sys/param.h>
#include <sys/lock.h>
#include <sys/malloc.h>
#include <sys/mutex.h>
#include <sys/priv.h>
#include <sys/proc.h>
#include <sys/syscallsubr.h>
#include <sys/sysproto.h>
#include <sys/system.h>
#include <machine/./linux/linux.h>
#include <machine/./linux/linux_proto.h>
#include <compat/linux/linux_util.h>
```

Include dependency graph for linux\_uid16.c:



## Defines

- #define `CAST_NOCHG(x)` `((x == 0xFFFF) ? -1 : x)`

## Functions

- `__FBSDID` ("\$FreeBSD: src/sys/compat/linux/linux\_uid16.c,v 1.20 2006/11/06 13:41:49 rwatson Exp \$")
- `DUMMY` (setsuid16)
- `DUMMY` (setfsuid16)
- `DUMMY` (getresuid16)
- `DUMMY` (getresgid16)
- `int linux_chown16` (struct thread \*td, struct linux\_chown16\_args \*args)
- `int linux_lchown16` (struct thread \*td, struct linux\_lchown16\_args \*args)
- `int linux_setgroups16` (struct thread \*td, struct linux\_setgroups16\_args \*args)
- `int linux_getgroups16` (struct thread \*td, struct linux\_getgroups16\_args \*args)
- `int linux_getgid16` (struct thread \*td, struct linux\_getgid16\_args \*args)
- `int linux_getuid16` (struct thread \*td, struct linux\_getuid16\_args \*args)
- `int linux_getegid16` (struct thread \*td, struct linux\_getegid16\_args \*args)
- `int linux_geteuid16` (struct thread \*td, struct linux\_geteuid16\_args \*args)

- int `linux_setgid16` (struct thread \*td, struct linux\_setgid16\_args \*args)
- int `linux_setuid16` (struct thread \*td, struct linux\_setuid16\_args \*args)
- int `linux_setregid16` (struct thread \*td, struct linux\_setregid16\_args \*args)
- int `linux_setreuid16` (struct thread \*td, struct linux\_setreuid16\_args \*args)
- int `linux_setresgid16` (struct thread \*td, struct linux\_setresgid16\_args \*args)
- int `linux_setresuid16` (struct thread \*td, struct linux\_setresuid16\_args \*args)

## 7.26.1 Define Documentation

### 7.26.1.1 #define CAST\_NOCHG(x) ((x == 0xFFFF) ? -1 : x)

Definition at line 57 of file linux\_uid16.c.

Referenced by `linux_chown16()`, `linux_lchown16()`, `linux_setregid16()`, `linux_setresgid16()`, `linux_setresuid16()`, and `linux_setreuid16()`.

## 7.26.2 Function Documentation

### 7.26.2.1 \_\_FBSDID ("\$FreeBSD: src/sys/compat/linux/linux\_uid16.c, v 1.20 2006/11/06 13:41:49 rwatson Exp \$")

### 7.26.2.2 DUMMY (getresgid16)

### 7.26.2.3 DUMMY (getresuid16)

### 7.26.2.4 DUMMY (setfsgid16)

### 7.26.2.5 DUMMY (setfsuid16)

### 7.26.2.6 int linux\_chown16 (struct thread \* td, struct linux\_chown16\_args \* args)

Definition at line 60 of file linux\_uid16.c.

References `CAST_NOCHG`, `LCONVPATHEXIST`, and `LFREEPATH`.

### 7.26.2.7 int linux\_getegid16 (struct thread \* td, struct linux\_getegid16\_args \* args)

Definition at line 228 of file linux\_uid16.c.

### 7.26.2.8 int linux\_geteuid16 (struct thread \* td, struct linux\_geteuid16\_args \* args)

Definition at line 236 of file linux\_uid16.c.

### 7.26.2.9 int linux\_getgid16 (struct thread \* td, struct linux\_getgid16\_args \* args)

Definition at line 212 of file linux\_uid16.c.

### 7.26.2.10 int linux\_getgroups16 (struct thread \* td, struct linux\_getgroups16\_args \* args)

Definition at line 156 of file linux\_uid16.c.

**7.26.2.11 int linux\_getuid16 (struct thread \* *td*, struct linux\_getuid16\_args \* *args*)**

Definition at line 220 of file linux\_uid16.c.

**7.26.2.12 int linux\_lchown16 (struct thread \* *td*, struct linux\_lchown16\_args \* *args*)**

Definition at line 78 of file linux\_uid16.c.

References CAST\_NOCHG, LCONVPATHEXIST, and LFREEPATH.

**7.26.2.13 int linux\_setgid16 (struct thread \* *td*, struct linux\_setgid16\_args \* *args*)**

Definition at line 244 of file linux\_uid16.c.

**7.26.2.14 int linux\_setgroups16 (struct thread \* *td*, struct linux\_setgroups16\_args \* *args*)**

Definition at line 97 of file linux\_uid16.c.

**7.26.2.15 int linux\_setregid16 (struct thread \* *td*, struct linux\_setregid16\_args \* *args*)**

Definition at line 262 of file linux\_uid16.c.

References CAST\_NOCHG.

**7.26.2.16 int linux\_setresgid16 (struct thread \* *td*, struct linux\_setresgid16\_args \* *args*)**

Definition at line 282 of file linux\_uid16.c.

References CAST\_NOCHG.

**7.26.2.17 int linux\_setresuid16 (struct thread \* *td*, struct linux\_setresuid16\_args \* *args*)**

Definition at line 293 of file linux\_uid16.c.

References CAST\_NOCHG.

**7.26.2.18 int linux\_setreuid16 (struct thread \* *td*, struct linux\_setreuid16\_args \* *args*)**

Definition at line 272 of file linux\_uid16.c.

References CAST\_NOCHG.

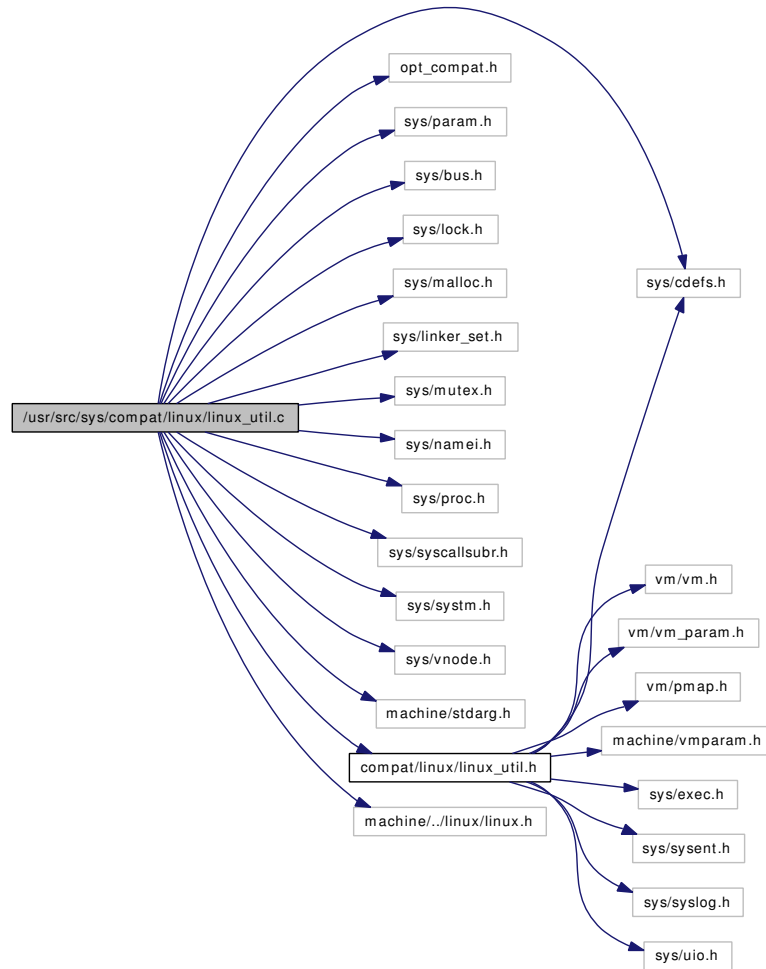
**7.26.2.19 int linux\_setuid16 (struct thread \* *td*, struct linux\_setuid16\_args \* *args*)**

Definition at line 253 of file linux\_uid16.c.

## 7.27 /usr/src/sys/compat/linux/linux\_util.c File Reference

```
#include <sys/cdefs.h>
#include "opt_compat.h"
#include <sys/param.h>
#include <sys/bus.h>
#include <sys/lock.h>
#include <sys/malloc.h>
#include <sys/linker_set.h>
#include <sys/mutex.h>
#include <sys/namei.h>
#include <sys/proc.h>
#include <sys/syscallsubr.h>
#include <sys/system.h>
#include <sys/vnode.h>
#include <machine/stdarg.h>
#include <compat/linux/linux_util.h>
#include <machine/./linux/linux.h>
```

Include dependency graph for linux\_util.c:



## Data Structures

- struct [device\\_element](#)

## Functions

- `__FBSDID` ("\$FreeBSD: src/sys/compat/linux/linux\_util.c,v 1.31 2006/08/15 12:54:29 netchild Exp \$")
- int [linux\\_emul\\_convpath](#) (struct thread \*td, char \*path, enum uio\_seg pathseg, char \*\*pbuf, int cflag)
- void [linux\\_msg](#) (const struct thread \*td, const char \*fmt,...)
- static [TAILQ\\_HEAD](#) ([device\\_element](#))
- [DATA\\_SET](#) ([linux\\_device\\_handler\\_set](#), [null\\_handler](#))
- char \* [linux\\_driver\\_get\\_name\\_dev](#) ([device\\_t](#) dev)
- int [linux\\_driver\\_get\\_major\\_minor](#) (char \*node, int \*major, int \*minor)
- char \* [linux\\_get\\_char\\_devices](#) ()
- void [linux\\_free\\_get\\_char\\_devices](#) (char \*string)
- int [linux\\_device\\_register\\_handler](#) (struct [linux\\_device\\_handler](#) \*d)
- int [linux\\_device\\_unregister\\_handler](#) (struct [linux\\_device\\_handler](#) \*d)

## Variables

- const char `linux_emul_path` [] = "/compat/linux"
- static int `linux_major_starting` = 200

### 7.27.1 Function Documentation

**7.27.1.1** `__FBSDID` ("FreeBSD: src/sys/compat/linux/linux\_util.c, v 1.31 2006/08/15 12:54:29 netchild Exp \$")

**7.27.1.2** `DATA_SET` (`linux_device_handler_set`, `null_handler`)

**7.27.1.3** `int linux_device_register_handler` (struct `linux_device_handler` \* *d*)

Definition at line 189 of file `linux_util.c`.

References `linux_device_handler::linux_major`, and `linux_major_starting`.

**7.27.1.4** `int linux_device_unregister_handler` (struct `linux_device_handler` \* *d*)

Definition at line 210 of file `linux_util.c`.

**7.27.1.5** `int linux_driver_get_major_minor` (char \* *node*, int \* *major*, int \* *minor*)

Definition at line 126 of file `linux_util.c`.

Referenced by `translate_fd_major_minor()`.

**7.27.1.6** `char*` `linux_driver_get_name_dev` (`device_t` *dev*)

Definition at line 110 of file `linux_util.c`.

**7.27.1.7** `int linux_emul_convpath` (struct `thread` \* *td*, char \* *path*, enum `uio_seg` *pathseg*, char \*\* *pbuf*, int *cflag*)

Definition at line 69 of file `linux_util.c`.

References `linux_emul_path`.

Referenced by `linux_link()`, `linux_rename()`, and `linux_symlink()`.

**7.27.1.8** `void linux_free_get_char_devices` (char \* *string*)

Definition at line 181 of file `linux_util.c`.

**7.27.1.9** `char*` `linux_get_char_devices` (void)

Definition at line 144 of file `linux_util.c`.

**7.27.1.10 void linux\_msg (const struct thread \* *td*, const char \* *fmt*, ...)**

Definition at line 82 of file linux\_util.c.

Referenced by linux\_ioctl(), linux\_ioctl\_hdio(), linux\_semctl(), linux\_shmctl(), and linux\_sysctl().

**7.27.1.11 static TAILQ\_HEAD (device\_element) [static]**

Definition at line 101 of file linux\_util.c.

**7.27.2 Variable Documentation****7.27.2.1 const char linux\_emul\_path[] = "/compat/linux"**

Definition at line 58 of file linux\_util.c.

Referenced by linux\_emul\_convpath().

**7.27.2.2 int linux\_major\_starting = 200 [static]**

Definition at line 186 of file linux\_util.c.

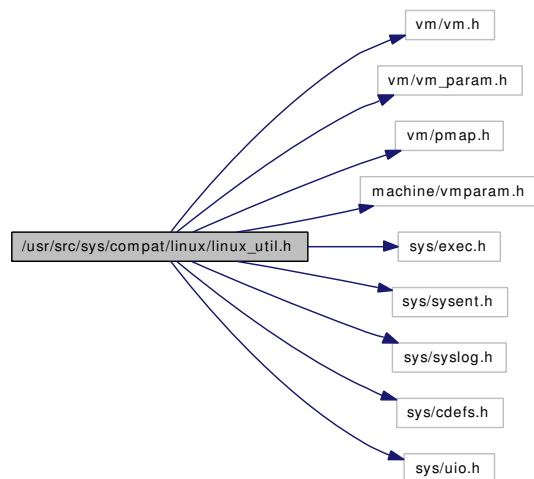
Referenced by linux\_device\_register\_handler().



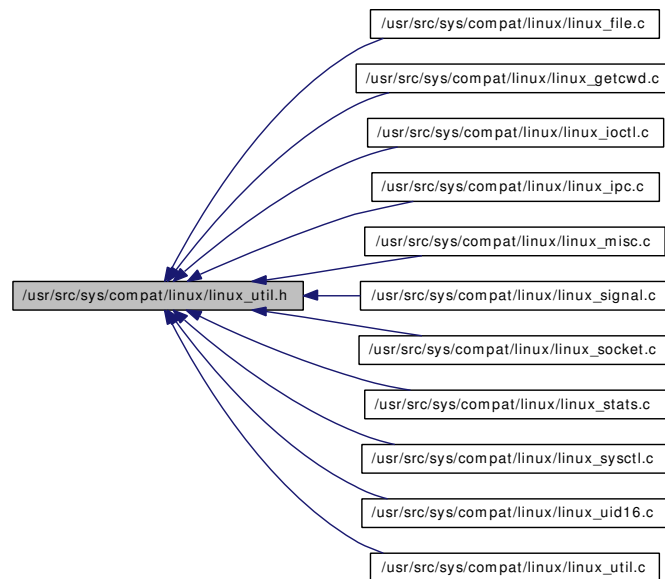
## 7.28 /usr/src/sys/compat/linux/linux\_util.h File Reference

```
#include <vm/vm.h>
#include <vm/vm_param.h>
#include <vm/pmap.h>
#include <machine/vmparam.h>
#include <sys/exec.h>
#include <sys/sysent.h>
#include <sys/syslog.h>
#include <sys/cdefs.h>
#include <sys/uio.h>
```

Include dependency graph for linux\_util.h:



This graph shows which files directly or indirectly include this file:



## Data Structures

- struct [linux\\_device\\_handler](#)

## Defines

- #define [LCONVPATH](#)(td, upath, pathp, i)
- #define [LCONVPATHEXIST](#)(td, upath, pathp) [LCONVPATH](#)(td, upath, pathp, 0)
- #define [LCONVPATHCREAT](#)(td, upath, pathp) [LCONVPATH](#)(td, upath, pathp, 1)
- #define [LFREEPATH](#)(path) free(path, M\_TEMP)
- #define [DUMMY](#)(s)

## Functions

- int [linux\\_emul\\_convpath](#) (struct thread \*, char \*, enum uio\_seg, char \*\*, int)
- void [linux\\_msg](#) (const struct thread \*td, const char \*fmt,...) [\\_\\_printflike](#)(2)
- int [linux\\_device\\_register\\_handler](#) (struct [linux\\_device\\_handler](#) \*h)
- int [linux\\_device\\_unregister\\_handler](#) (struct [linux\\_device\\_handler](#) \*h)
- char \* [linux\\_driver\\_get\\_name\\_dev](#) (device\_t dev)
- int [linux\\_driver\\_get\\_major\\_minor](#) (char \*node, int \*major, int \*minor)
- char \* [linux\\_get\\_char\\_devices](#) (void)
- void [linux\\_free\\_get\\_char\\_devices](#) (char \*string)

## Variables

- const char [linux\\_emul\\_path](#) []

## 7.28.1 Define Documentation

### 7.28.1.1 #define DUMMY(s)

**Value:**

```
int
linux_ ## s(struct thread *td, struct linux_ ## s ## _args *args)
{
    static pid_t pid;

    if (pid != td->td_proc->p_pid) {
        linux_msg(td, "syscall %s not implemented", #s);
        pid = td->td_proc->p_pid;
    };
    return (ENOSYS);
}
struct __hack
```

Definition at line 70 of file linux\_util.h.

### 7.28.1.2 #define LCONVPATH(td, upath, pathp, i)

**Value:**

```
do {
    int _error;

    _error = linux_emul_convpath(td, upath, UIO_USERSPACE,
        pathp, i);
    if (*(pathp) == NULL)
        return (_error);
} while (0)
```

Definition at line 56 of file linux\_util.h.

### 7.28.1.3 #define LCONVPATHCREAT(td, upath, pathp) LCONVPATH(td, upath, pathp, 1)

Definition at line 67 of file linux\_util.h.

Referenced by linux\_mkdir(), linux\_mknod(), and linux\_open().

### 7.28.1.4 #define LCONVPATHEXIST(td, upath, pathp) LCONVPATH(td, upath, pathp, 0)

Definition at line 66 of file linux\_util.h.

Referenced by linux\_access(), linux\_chdir(), linux\_chmod(), linux\_chown(), linux\_chown16(), linux\_creat(), linux\_lchown(), linux\_lchown16(), linux\_link(), linux\_newlstat(), linux\_newstat(), linux\_open(), linux\_readlink(), linux\_rename(), linux\_rmdir(), linux\_statfs(), linux\_statfs64(), linux\_symlink(), linux\_truncate(), and linux\_unlink().

### 7.28.1.5 #define LFREEPATH(path) free(path, M\_TEMP)

Definition at line 68 of file linux\_util.h.

Referenced by `linux_access()`, `linux_chdir()`, `linux_chmod()`, `linux_chown()`, `linux_chown16()`, `linux_creat()`, `linux_lchown()`, `linux_lchown16()`, `linux_link()`, `linux_mkdir()`, `linux_mknod()`, `linux_newlstat()`, `linux_newstat()`, `linux_open()`, `linux_readlink()`, `linux_rename()`, `linux_rmdir()`, `linux_statfs()`, `linux_statfs64()`, `linux_symlink()`, `linux_truncate()`, and `linux_unlink()`.

## 7.28.2 Function Documentation

### 7.28.2.1 `int linux_device_register_handler (struct linux\_device\_handler * h)`

Definition at line 189 of file `linux_util.c`.

References `linux_device_handler::linux_major`, and `linux_major_starting`.

### 7.28.2.2 `int linux_device_unregister_handler (struct linux\_device\_handler * h)`

Definition at line 210 of file `linux_util.c`.

### 7.28.2.3 `int linux_driver_get_major_minor (char * node, int * major, int * minor)`

Definition at line 126 of file `linux_util.c`.

Referenced by `translate_fd_major_minor()`.

### 7.28.2.4 `char* linux_driver_get_name_dev (device_t dev)`

Definition at line 110 of file `linux_util.c`.

### 7.28.2.5 `int linux_emul_convpath (struct thread *, char *, enum uio_seg, char **, int)`

Definition at line 69 of file `linux_util.c`.

References `linux_emul_path`.

Referenced by `linux_link()`, `linux_rename()`, and `linux_symlink()`.

### 7.28.2.6 `void linux_free_get_char_devices (char * string)`

Definition at line 181 of file `linux_util.c`.

### 7.28.2.7 `char* linux_get_char_devices (void)`

Definition at line 144 of file `linux_util.c`.

### 7.28.2.8 `void linux_msg (const struct thread * td, const char * fmt, ...)`

## 7.28.3 Variable Documentation

### 7.28.3.1 `const char linux\_emul\_path[ ]`

Definition at line 58 of file `linux_util.c`.

Referenced by linux\_emul\_convpath().

# Index

- [/usr/ Directory Reference, 13](#)
- [/usr/src/ Directory Reference, 11](#)
- [/usr/src/sys/ Directory Reference, 12](#)
- [/usr/src/sys/compat/ Directory Reference, 9](#)
- [/usr/src/sys/compat/linux/ Directory Reference, 10](#)
- [/usr/src/sys/compat/linux/linux\\_aio.c, 120](#)
- [/usr/src/sys/compat/linux/linux\\_aio.h, 131](#)
- [/usr/src/sys/compat/linux/linux\\_emul.c, 133](#)
- [/usr/src/sys/compat/linux/linux\\_emul.h, 137](#)
- [/usr/src/sys/compat/linux/linux\\_file.c, 140](#)
- [/usr/src/sys/compat/linux/linux\\_futex.c, 149](#)
- [/usr/src/sys/compat/linux/linux\\_futex.h, 152](#)
- [/usr/src/sys/compat/linux/linux\\_getcwd.c, 155](#)
- [/usr/src/sys/compat/linux/linux\\_ioctl.c, 158](#)
- [/usr/src/sys/compat/linux/linux\\_ioctl.h, 177](#)
- [/usr/src/sys/compat/linux/linux\\_ipc.c, 228](#)
- [/usr/src/sys/compat/linux/linux\\_ipc.h, 238](#)
- [/usr/src/sys/compat/linux/linux\\_mib.c, 239](#)
- [/usr/src/sys/compat/linux/linux\\_mib.h, 244](#)
- [/usr/src/sys/compat/linux/linux\\_misc.c, 246](#)
- [/usr/src/sys/compat/linux/linux\\_misc.h, 259](#)
- [/usr/src/sys/compat/linux/linux\\_signal.c, 260](#)
- [/usr/src/sys/compat/linux/linux\\_signal.h, 267](#)
- [/usr/src/sys/compat/linux/linux\\_socket.c, 269](#)
- [/usr/src/sys/compat/linux/linux\\_socket.h, 281](#)
- [/usr/src/sys/compat/linux/linux\\_stats.c, 284](#)
- [/usr/src/sys/compat/linux/linux\\_sysctl.c, 292](#)
- [/usr/src/sys/compat/linux/linux\\_sysproto.h, 295](#)
- [/usr/src/sys/compat/linux/linux\\_time.c, 296](#)
- [/usr/src/sys/compat/linux/linux\\_uid16.c, 299](#)
- [/usr/src/sys/compat/linux/linux\\_util.c, 303](#)
- [/usr/src/sys/compat/linux/linux\\_util.h, 307](#)
- [\\_\\_FBSDID](#)
  - [linux\\_aio.c, 127](#)
  - [linux\\_emul.c, 135](#)
  - [linux\\_file.c, 143](#)
  - [linux\\_futex.c, 151](#)
  - [linux\\_getcwd.c, 157](#)
  - [linux\\_ioctl.c, 164](#)
  - [linux\\_ipc.c, 230](#)
  - [linux\\_mib.c, 240](#)
  - [linux\\_misc.c, 253](#)
  - [linux\\_signal.c, 262](#)
  - [linux\\_socket.c, 272](#)
  - [linux\\_stats.c, 288](#)
  - [linux\\_sysctl.c, 294](#)
  - [linux\\_time.c, 297](#)
  - [linux\\_uid16.c, 301](#)
  - [linux\\_util.c, 305](#)
- [\\_\\_WCLONE](#)
  - [linux\\_misc.c, 250](#)
- [\\_f](#)
  - [l\\_sysinfo, 63](#)
- [addr](#)
  - [l\\_cdrom\\_read\\_audio, 18](#)
  - [linux\\_accept\\_args, 68](#)
  - [linux\\_getpeername\\_args, 88](#)
  - [linux\\_getsockname\\_args, 89](#)
- [addr\\_format](#)
  - [l\\_cdrom\\_read\\_audio, 18](#)
- [agid](#)
  - [l\\_dvd\\_disckey, 25](#)
  - [l\\_dvd\\_host\\_send\\_challenge, 26](#)
  - [l\\_dvd\\_lu\\_send\\_agid, 30](#)
  - [l\\_dvd\\_lu\\_send\\_asf, 31](#)
  - [l\\_dvd\\_lu\\_send\\_challenge, 32](#)
  - [l\\_dvd\\_lu\\_send\\_title\\_key, 34](#)
  - [l\\_dvd\\_send\\_key, 38](#)
- [aio\\_buf](#)
  - [linux\\_iocb, 93](#)
- [aio\\_data](#)
  - [linux\\_iocb, 93](#)
- [aio\\_fildes](#)
  - [linux\\_iocb, 93](#)
- [aio\\_lio\\_opcode](#)
  - [linux\\_iocb, 93](#)
- [aio\\_nbytes](#)
  - [linux\\_iocb, 94](#)
- [aio\\_offset](#)
  - [linux\\_iocb, 94](#)
- [aio\\_reqprio](#)
  - [linux\\_iocb, 94](#)
- [aio\\_reserved2](#)
  - [linux\\_iocb, 94](#)
- [aio\\_reserved3](#)
  - [linux\\_iocb, 94](#)
- [ARPHRD\\_ETHER](#)
  - [linux\\_ioctl.c, 163](#)
- [ARPHRD\\_LOOPBACK](#)

- linux\_ioctl.c, 163
- asf
  - l\_dvd\_lu\_send\_asf, 31
- B2L\_ITIMERVERVAL
  - linux\_misc.c, 250
- backlog
  - linux\_listen\_args, 95
- baud\_base
  - linux\_serial\_struct, 106
- bca
  - l\_dvd\_layer, 28
  - l\_dvd\_struct, 39
- book\_type
  - l\_dvd\_layer, 28
- book\_version
  - l\_dvd\_layer, 28
- bsd\_device\_name
  - linux\_device\_handler, 83
- bsd\_driver\_name
  - linux\_device\_handler, 83
- bsd\_to\_linux\_domain
  - linux\_socket.c, 272
- bsd\_to\_linux\_dvd\_authinfo
  - linux\_ioctl.c, 164
- bsd\_to\_linux\_dvd\_struct
  - linux\_ioctl.c, 164
- bsd\_to\_linux\_flock
  - linux\_file.c, 143
- bsd\_to\_linux\_ftype
  - linux\_stats.c, 288
- bsd\_to\_linux\_ifreq
  - linux\_ioctl.c, 164
- bsd\_to\_linux\_ipc\_perm
  - linux\_ipc.c, 230
- bsd\_to\_linux\_msf\_lba
  - linux\_ioctl.c, 165
- bsd\_to\_linux\_msqid\_ds
  - linux\_ipc.c, 230
- bsd\_to\_linux\_semids
  - linux\_ipc.c, 231
- bsd\_to\_linux\_shm\_info
  - linux\_ipc.c, 231
- bsd\_to\_linux\_shmid\_ds
  - linux\_ipc.c, 231
- bsd\_to\_linux\_shminfo
  - linux\_ipc.c, 232
- bsd\_to\_linux\_sigaction
  - linux\_signal.c, 262
- BSD\_TO\_LINUX\_SIGNAL
  - linux\_misc.c, 250
- bsd\_to\_linux\_sigset
  - linux\_signal.c, 262
  - linux\_signal.h, 267
- bsd\_to\_linux\_sockaddr
  - linux\_socket.c, 272
- bsd\_to\_linux\_sockopt\_level
  - linux\_socket.c, 272
- bsd\_to\_linux\_speed
  - linux\_ioctl.c, 165
- bsd\_to\_linux\_statfs
  - linux\_stats.c, 288
- bsd\_to\_linux\_statfs64
  - linux\_stats.c, 288
- bsd\_to\_linux\_termio
  - linux\_ioctl.c, 165
- bsd\_to\_linux\_termios
  - linux\_ioctl.c, 165
- buf
  - l\_cdrom\_read\_audio, 18
  - linux\_recvfrom\_args, 100
- bufferram
  - l\_sysinfo, 63
- c\_cc
  - linux\_termio, 112
  - linux\_termios, 114
- c\_cflag
  - linux\_termio, 112
  - linux\_termios, 114
- c\_iflag
  - linux\_termio, 112
  - linux\_termios, 114
- c\_lflag
  - linux\_termio, 112
  - linux\_termios, 114
- c\_line
  - linux\_termio, 112
  - linux\_termios, 114
- c\_oflag
  - linux\_termio, 112
  - linux\_termios, 114
- CAST\_NOCHG
  - linux\_uid16.c, 301
- cdmsf\_frame0
  - linux\_cdrom\_msf, 76
- cdmsf\_frame1
  - linux\_cdrom\_msf, 76
- cdmsf\_min0
  - linux\_cdrom\_msf, 76
- cdmsf\_min1
  - linux\_cdrom\_msf, 76
- cdmsf\_sec0
  - linux\_cdrom\_msf, 76
- cdmsf\_sec1
  - linux\_cdrom\_msf, 76
- cdrom\_handler
  - linux\_ioctl.c, 173

- cdsc\_absaddr
  - linux\_cdrom\_subchnl, 77
- cdsc\_adr
  - linux\_cdrom\_subchnl, 77
- cdsc\_audiostatus
  - linux\_cdrom\_subchnl, 77
- cdsc\_ctrl
  - linux\_cdrom\_subchnl, 77
- cdsc\_format
  - linux\_cdrom\_subchnl, 77
- cdsc\_ind
  - linux\_cdrom\_subchnl, 77
- cdsc\_reladdr
  - linux\_cdrom\_subchnl, 78
- cdsc\_trk
  - linux\_cdrom\_subchnl, 78
- cdte\_addr
  - linux\_cdrom\_tocentry, 79
- cdte\_adr
  - linux\_cdrom\_tocentry, 79
- cdte\_ctrl
  - linux\_cdrom\_tocentry, 79
- cdte\_datamode
  - linux\_cdrom\_tocentry, 79
- cdte\_format
  - linux\_cdrom\_tocentry, 79
- cdte\_track
  - linux\_cdrom\_tocentry, 79
- cdth\_trk0
  - linux\_cdrom\_tochdr, 81
- cdth\_trk1
  - linux\_cdrom\_tochdr, 81
- cgid
  - l\_ipc\_perm, 42
- cgms
  - l\_dvd\_lu\_send\_title\_key, 34
- chal
  - l\_dvd\_host\_send\_challenge, 26
  - l\_dvd\_lu\_send\_challenge, 32
- child\_clear\_tid
  - linux\_emuldata, 85
- child\_set\_tid
  - linux\_emuldata, 85
- CLK\_TCK
  - linux\_misc.c, 251
- close\_delay
  - linux\_serial\_struct, 106
- closing\_wait
  - linux\_serial\_struct, 106
- closing\_wait2
  - linux\_serial\_struct, 106
- console\_handler
  - linux\_ioctl.c, 173
- CONVTCK
  - linux\_misc.c, 251
- copyright
  - l\_dvd\_struct, 39
- cp\_sec
  - l\_dvd\_lu\_send\_title\_key, 34
- cpm
  - l\_dvd\_lu\_send\_title\_key, 34
- cpst
  - l\_dvd\_copyright, 24
- CTASSERT
  - linux\_ioctl.c, 166
- ctx\_nreq\_cur
  - linux\_aio\_context, 69
- ctx\_nreq\_max
  - linux\_aio\_context, 69
- ctx\_pid
  - linux\_aio\_context, 69
- ctx\_pring
  - linux\_aio\_context, 69
- ctx\_sx
  - linux\_aio\_context, 70
- cuid
  - l\_ipc\_perm, 42
- custom\_divisor
  - linux\_serial\_struct, 106
- cylinders
  - linux\_hd\_big\_geometry, 91
- d\_ino
  - l\_dirent, 19
  - l\_dirent64, 20
- d\_name
  - l\_dirent, 19
  - l\_dirent64, 20
- d\_off
  - l\_dirent, 19
  - l\_dirent64, 20
- d\_reclen
  - l\_dirent, 19
  - l\_dirent64, 20
- d\_type
  - l\_dirent64, 20
- DARGPRINTF
  - linux\_aio.c, 123
- data
  - linux\_io\_event, 92
- DATA\_SET
  - linux\_ioctl.c, 166
  - linux\_util.c, 305
- DECLARE\_MODULE
  - linux\_aio.c, 127
- DEFAULT\_ROOTID
  - linux\_file.c, 143
- device\_element, 15



- dirbits
  - linux\_ioctl.c, 173
- DIRENT\_MINSIZE
  - linux\_getcwd.c, 157
- disc\_size
  - l\_dvd\_layer, 28
- disckey
  - l\_dvd\_struct, 39
- disk\_handler
  - linux\_ioctl.c, 173
- do\_sa\_get
  - linux\_socket.c, 272
- domain
  - linux\_socket\_args, 110
  - linux\_socketpair\_args, 111
- DPPRINTF
  - linux\_aio.c, 123
- DPRINTF
  - linux\_aio.c, 123
- drm\_handler
  - linux\_ioctl.c, 173
- DUMMY
  - linux\_uid16.c, 301
  - linux\_util.h, 309
- DUMP\_FREEBSD\_AIOCB
  - linux\_aio.c, 123
- DUMP\_TIMESPEC
  - linux\_aio.c, 123
- em\_find
  - linux\_emul.c, 135
  - linux\_emul.h, 138
- EMUL\_DOLOCK
  - linux\_emul.h, 137
- EMUL\_DONTLOCK
  - linux\_emul.h, 137
- EMUL\_LOCK
  - linux\_emul.h, 138
- emul\_lock
  - linux\_emul.c, 136
  - linux\_emul.h, 139
- emul\_shared\_lock
  - linux\_emul.c, 136
  - linux\_emul.h, 139
- EMUL\_SHARED\_RLOCK
  - linux\_emul.h, 138
- EMUL\_SHARED\_RUNLOCK
  - linux\_emul.h, 138
- EMUL\_SHARED\_WLOCK
  - linux\_emul.h, 138
- EMUL\_SHARED\_WUNLOCK
  - linux\_emul.h, 138
- EMUL\_UNLOCK
  - linux\_emul.h, 138
- end\_sector
  - l\_dvd\_layer, 28
- end\_sector\_10
  - l\_dvd\_layer, 28
- f\_bavail
  - l\_statfs, 59
  - l\_statfs64, 61
- f\_bfree
  - l\_statfs, 59
  - l\_statfs64, 61
- f\_blocks
  - l\_statfs, 59
  - l\_statfs64, 61
- f\_bsize
  - l\_statfs, 59
  - l\_statfs64, 61
- f\_ffree
  - l\_statfs, 59
  - l\_statfs64, 61
- f\_files
  - l\_statfs, 59
  - l\_statfs64, 61
- f\_fname
  - l\_ustat, 67
- f\_fpack
  - l\_ustat, 67
- f\_fsid
  - l\_statfs, 59
  - l\_statfs64, 61
- f\_namelen
  - l\_statfs, 60
  - l\_statfs64, 62
- f\_refcount
  - futex, 16
- f\_spare
  - l\_statfs, 60
  - l\_statfs64, 62
- f\_tfree
  - l\_ustat, 67
- f\_tinode
  - l\_ustat, 67
- f\_type
  - l\_statfs, 60
  - l\_statfs64, 62
- f\_uaddr
  - futex, 16
- fcntl\_common
  - linux\_file.c, 143
- fillers
  - linux\_mixer\_info, 96
- flags
  - linux\_recv\_args, 99
  - linux\_recvfrom\_args, 100

- linux\_recvmsg\_args, 101
- linux\_send\_args, 102
- linux\_sendmsg\_args, 103
- linux\_sendto\_args, 104
- linux\_serial\_struct, 106
- frame
  - linux\_cdrom\_addr, 75
- freebig
  - l\_sysinfo, 63
- freeram
  - l\_sysinfo, 63
- freeswap
  - l\_sysinfo, 63
- from
  - linux\_recvfrom\_args, 100
- fromlen
  - linux\_recvfrom\_args, 100
- futex, 16
  - f\_refcount, 16
  - f\_uaddr, 16
- futex\_get
  - linux\_futex.c, 151
- FUTEX\_LOCK
  - linux\_futex.c, 150
- FUTEX\_LOCKED
  - linux\_futex.c, 150
- FUTEX\_OP\_ADD
  - linux\_futex.h, 152
- FUTEX\_OP\_ANDN
  - linux\_futex.h, 152
- FUTEX\_OP\_CMP\_EQ
  - linux\_futex.h, 152
- FUTEX\_OP\_CMP\_GE
  - linux\_futex.h, 152
- FUTEX\_OP\_CMP\_GT
  - linux\_futex.h, 152
- FUTEX\_OP\_CMP\_LE
  - linux\_futex.h, 153
- FUTEX\_OP\_CMP\_LT
  - linux\_futex.h, 153
- FUTEX\_OP\_CMP\_NE
  - linux\_futex.h, 153
- FUTEX\_OP\_OPARG\_SHIFT
  - linux\_futex.h, 153
- FUTEX\_OP\_OR
  - linux\_futex.h, 153
- FUTEX\_OP\_SET
  - linux\_futex.h, 153
- FUTEX\_OP\_XOR
  - linux\_futex.h, 153
- futex\_put
  - linux\_futex.c, 151
- futex\_sleep
  - linux\_futex.c, 151
- FUTEX\_SYSTEM\_LOCK
  - linux\_futex.c, 150
- FUTEX\_SYSTEM\_UNLOCK
  - linux\_futex.c, 150
- FUTEX\_UNLOCK
  - linux\_futex.c, 150
- FUTEX\_UNLOCKED
  - linux\_futex.c, 150
- futex\_wake
  - linux\_futex.c, 151
- GETCWD\_CHECK\_ACCESS
  - linux\_getcwd.c, 157
- getdents\_common
  - linux\_file.c, 143
- gid
  - l\_ipc\_perm, 42
- group\_pid
  - linux\_emuldata\_shared, 87
- handle\_string
  - linux\_sysctl.c, 294
- handler\_element, 17
- hdio\_handler
  - linux\_ioctl.c, 173
- heads
  - linux\_hd\_big\_geometry, 91
- how
  - linux\_shutdown\_args, 109
- hrpcs
  - l\_dvd\_authinfo, 21
- hsc
  - l\_dvd\_authinfo, 21
- hsk
  - l\_dvd\_authinfo, 21
- hub6
  - linux\_serial\_struct, 107
- id
  - linux\_mixer\_info, 96
  - linux\_old\_mixer\_info, 97
- ifname\_linux\_to\_bsd
  - linux\_ioctl.c, 166
- IFP\_IS\_ETH
  - linux\_ioctl.c, 163
- iocb\_reformat
  - linux\_aio.c, 127
- irq
  - linux\_serial\_struct, 107
- ISSIGVALID
  - linux\_ioctl.c, 163
- it\_interval
  - l\_itimerval, 44
- it\_value

- [l\\_itimerval](#), [44](#)
- [key](#)
  - [l\\_dvd\\_send\\_key](#), [38](#)
  - [l\\_ipc\\_perm](#), [42](#)
- [l\\_cdrom\\_read\\_audio](#), [18](#)
  - [addr](#), [18](#)
  - [addr\\_format](#), [18](#)
  - [buf](#), [18](#)
  - [nframes](#), [18](#)
- [l\\_dirent](#), [19](#)
  - [d\\_ino](#), [19](#)
  - [d\\_name](#), [19](#)
  - [d\\_off](#), [19](#)
  - [d\\_reclen](#), [19](#)
- [l\\_dirent64](#), [20](#)
  - [d\\_ino](#), [20](#)
  - [d\\_name](#), [20](#)
  - [d\\_off](#), [20](#)
  - [d\\_reclen](#), [20](#)
  - [d\\_type](#), [20](#)
- [l\\_dvd\\_authinfo](#), [21](#)
  - [hrpcs](#), [21](#)
  - [hsc](#), [21](#)
  - [hsk](#), [21](#)
  - [lrpcs](#), [22](#)
  - [lsa](#), [22](#)
  - [lsasf](#), [22](#)
  - [lsc](#), [22](#)
  - [lsk](#), [22](#)
  - [lstk](#), [22](#)
  - [type](#), [22](#)
- [l\\_dvd\\_bca](#), [23](#)
  - [len](#), [23](#)
  - [type](#), [23](#)
  - [value](#), [23](#)
- [l\\_dvd\\_challenge](#)
  - [linux\\_ioctl.c](#), [164](#)
- [l\\_dvd\\_copyright](#), [24](#)
  - [cpst](#), [24](#)
  - [layer\\_num](#), [24](#)
  - [rmi](#), [24](#)
  - [type](#), [24](#)
- [l\\_dvd\\_disckey](#), [25](#)
  - [agid](#), [25](#)
  - [type](#), [25](#)
  - [value](#), [25](#)
- [l\\_dvd\\_host\\_send\\_challenge](#), [26](#)
  - [agid](#), [26](#)
  - [chal](#), [26](#)
  - [type](#), [26](#)
- [l\\_dvd\\_host\\_send\\_rpcstate](#), [27](#)
  - [pdrc](#), [27](#)
  - [type](#), [27](#)
- [l\\_dvd\\_key](#)
  - [linux\\_ioctl.c](#), [164](#)
- [l\\_dvd\\_layer](#), [28](#)
  - [bca](#), [28](#)
  - [book\\_type](#), [28](#)
  - [book\\_version](#), [28](#)
  - [disc\\_size](#), [28](#)
  - [end\\_sector](#), [28](#)
  - [end\\_sector\\_10](#), [28](#)
  - [layer\\_type](#), [29](#)
  - [linear\\_density](#), [29](#)
  - [min\\_rate](#), [29](#)
  - [nlayers](#), [29](#)
  - [start\\_sector](#), [29](#)
  - [track\\_density](#), [29](#)
  - [track\\_path](#), [29](#)
- [l\\_dvd\\_lu\\_send\\_agid](#), [30](#)
  - [agid](#), [30](#)
  - [type](#), [30](#)
- [l\\_dvd\\_lu\\_send\\_asf](#), [31](#)
  - [agid](#), [31](#)
  - [asf](#), [31](#)
  - [type](#), [31](#)
- [l\\_dvd\\_lu\\_send\\_challenge](#), [32](#)
  - [agid](#), [32](#)
  - [chal](#), [32](#)
  - [type](#), [32](#)
- [l\\_dvd\\_lu\\_send\\_rpcstate](#), [33](#)
  - [region\\_mask](#), [33](#)
  - [rpc\\_scheme](#), [33](#)
  - [type](#), [33](#)
  - [ucca](#), [33](#)
  - [vra](#), [33](#)
- [l\\_dvd\\_lu\\_send\\_title\\_key](#), [34](#)
  - [agid](#), [34](#)
  - [cgms](#), [34](#)
  - [cp\\_sec](#), [34](#)
  - [cpm](#), [34](#)
  - [lba](#), [34](#)
  - [title\\_key](#), [34](#)
  - [type](#), [35](#)
- [l\\_dvd\\_manufact](#), [36](#)
  - [layer\\_num](#), [36](#)
  - [len](#), [36](#)
  - [type](#), [36](#)
  - [value](#), [36](#)
- [l\\_dvd\\_physical](#), [37](#)
  - [layer](#), [37](#)
  - [layer\\_num](#), [37](#)
  - [type](#), [37](#)
- [l\\_dvd\\_send\\_key](#), [38](#)
  - [agid](#), [38](#)
  - [key](#), [38](#)

- type, 38
- l\_dvd\_struct, 39
  - bca, 39
  - copyright, 39
  - disckey, 39
  - manufact, 39
  - physical, 39
  - type, 40
- l\_flock, 41
  - l\_len, 41
  - l\_pid, 41
  - l\_start, 41
  - l\_type, 41
  - l\_whence, 41
- l\_ipc\_perm, 42
  - cgid, 42
  - cuid, 42
  - gid, 42
  - key, 42
  - mode, 42
  - seq, 42
  - uid, 43
- l\_itimerval, 44
  - it\_interval, 44
  - it\_value, 44
- l\_len
  - l\_flock, 41
- l\_msginfo, 45
  - msgmap, 45
  - msgmax, 45
  - msgmnb, 45
  - msgmni, 45
  - msgpool, 45
  - msgseg, 45
  - msgssz, 46
  - msgtql, 46
- l\_msqid\_ds, 47
  - msg\_cbytes, 47
  - msg\_ctime, 47
  - msg\_first, 47
  - msg\_last, 47
  - msg\_lcbytes, 48
  - msg\_lqbytes, 48
  - msg\_lrpid, 48
  - msg\_lspid, 48
  - msg\_perm, 48
  - msg\_qbytes, 48
  - msg\_qnum, 48
  - msg\_rtime, 48
  - msg\_stime, 48
- l\_pid
  - l\_flock, 41
- l\_semid\_ds, 50
  - sem\_base, 50
  - sem\_ctime, 50
  - sem\_nsems, 50
  - sem\_otime, 50
  - sem\_pending, 50
  - sem\_pending\_last, 51
  - sem\_perm, 51
  - undo, 51
- l\_seminfo, 52
  - semaem, 52
  - semmap, 52
  - semmni, 52
  - semmns, 52
  - semmnu, 52
  - semmsl, 52
  - semopm, 52
  - semume, 53
  - semusz, 53
  - semvmx, 53
- l\_shm\_info, 54
  - shm\_rss, 54
  - shm\_swp, 54
  - shm\_tot, 54
  - swap\_attempts, 54
  - swap\_successes, 54
  - used\_ids, 54
- l\_shmid\_ds, 56
  - private1, 56
  - private2, 56
  - private3, 56
  - shm\_atime, 56
  - shm\_cpid, 56
  - shm\_ctime, 57
  - shm\_dtime, 57
  - shm\_lpid, 57
  - shm\_nattch, 57
  - shm\_perm, 57
  - shm\_segsz, 57
- l\_shminfo, 58
  - shmall, 58
  - shmmax, 58
  - shmmmin, 58
  - shmmni, 58
  - shmseg, 58
- l\_start
  - l\_flock, 41
- l\_statfs, 59
  - f\_bavail, 59
  - f\_bfree, 59
  - f\_blocks, 59
  - f\_bsize, 59
  - f\_ffree, 59
  - f\_files, 59
  - f\_fsid, 59
  - f\_namelen, 60

- f\_spare, 60
- f\_type, 60
- l\_stats64, 61
  - f\_bavail, 61
  - f\_bfree, 61
  - f\_blocks, 61
  - f\_bsize, 61
  - f\_ffree, 61
  - f\_files, 61
  - f\_fsid, 61
  - f\_namelen, 62
  - f\_spare, 62
  - f\_type, 62
- l\_sysinfo, 63
  - \_f, 63
  - bufferram, 63
  - freebig, 63
  - freeram, 63
  - freeswap, 63
  - loads, 64
  - mem\_unit, 64
  - pads, 64
  - procs, 64
  - sharedram, 64
  - totalbig, 64
  - totalram, 64
  - totalswap, 64
  - uptime, 64
- l\_times\_argv, 66
  - tms\_cstime, 66
  - tms\_cutime, 66
  - tms\_stime, 66
  - tms\_utime, 66
- l\_type
  - l\_flock, 41
- l\_ustat, 67
  - f\_fname, 67
  - f\_fpack, 67
  - f\_tfree, 67
  - f\_tinode, 67
- l\_whence
  - l\_flock, 41
- layer
  - l\_dvd\_physical, 37
- layer\_num
  - l\_dvd\_copyright, 24
  - l\_dvd\_manufact, 36
  - l\_dvd\_physical, 37
- layer\_type
  - l\_dvd\_layer, 29
- lba
  - l\_dvd\_lu\_send\_title\_key, 34
  - linux\_cdrom\_addr, 75
- LCONVPATH
  - linux\_util.h, 309
- LCONVPATHCREATE
  - linux\_util.h, 309
- LCONVPATHEXIST
  - linux\_util.h, 309
- len
  - l\_dvd\_bca, 23
  - l\_dvd\_manufact, 36
  - linux\_recv\_args, 99
  - linux\_recvfrom\_args, 100
  - linux\_send\_args, 102
  - linux\_sendto\_args, 104
- level
  - linux\_getsockopt\_args, 90
  - linux\_setsockopt\_args, 108
- LFREEPATH
  - linux\_util.h, 309
- line
  - linux\_serial\_struct, 107
- linear\_density
  - l\_dvd\_layer, 29
- linux\_accept
  - linux\_socket.c, 272
- linux\_accept\_args, 68
  - addr, 68
  - namelen, 68
  - s, 68
- linux\_access
  - linux\_file.c, 144
- linux\_aio.c
  - \_\_FBSDID, 127
  - DARGPRINTF, 123
  - DECLARE\_MODULE, 127
  - DPPRINTF, 123
  - DPRINTF, 123
  - DUMP\_FREEBSD\_AIOCB, 123
  - DUMP\_TIMESPEC, 123
  - iocb\_reformat, 127
  - LINUX\_AIO\_CTX\_FOREACH, 123
  - LINUX\_AIO\_CTX\_FOREACH\_SAFE, 124
  - LINUX\_AIO\_CTX\_HOOK, 124
  - LINUX\_AIO\_CTX\_LIST\_LOCK, 124
  - LINUX\_AIO\_CTX\_LIST\_UNLOCK, 124
  - LINUX\_AIO\_CTX\_LOCK, 124
  - LINUX\_AIO\_CTX\_MATCH, 124
  - LINUX\_AIO\_CTX\_UNHOOK, 124
  - LINUX\_AIO\_CTX\_UNLOCK, 124
  - LINUX\_AIO\_DEBUG, 125
  - linux\_aio\_dump\_freebsd\_aiocb, 127
  - LINUX\_AIO\_LOCK, 125
  - linux\_aio\_mod, 130
  - linux\_aio\_modload, 127
  - linux\_aio\_proc\_rundown, 127
  - LINUX\_AIO\_REQ\_FOREACH, 125

- LINUX\_AIO\_REQ\_FOREACH\_SAFE, 125
- LINUX\_AIO\_REQ\_HOOK, 125
- LINUX\_AIO\_REQ\_UNHOOK, 125
- LINUX\_AIO\_UNLOCK, 126
- linux\_io\_cancel, 127
- linux\_io\_destroy, 128
- linux\_io\_getevents, 128
- linux\_io\_setup, 128
- linux\_io\_submit, 129
- MODULE\_DEPEND, 129
- PREPARE\_DUMMY\_SYSCALL\_BACKUP, 126
- RESTORE\_DUMMY\_SYSCALL, 126
- SHOW\_REAL\_SYSCALL, 126
- SLIST\_HEAD, 129
- user\_free, 129
- user\_malloc, 129
- linux\_aio.h
  - LINUX\_IOCTL\_CMD\_FDSYNC, 132
  - LINUX\_IOCTL\_CMD\_FSYNC, 132
  - LINUX\_IOCTL\_CMD\_NOOP, 132
  - LINUX\_IOCTL\_CMD\_PREAD, 132
  - LINUX\_IOCTL\_CMD\_PWRITE, 132
- linux\_aio.h
  - linux\_aio\_context\_t, 132
  - LINUX\_AIO\_PADDED, 131
  - LINUX\_AIO\_RING\_COMPAT\_FEATURES, 131
  - LINUX\_AIO\_RING\_INCOMPAT\_FEATURES, 131
  - LINUX\_AIO\_RING\_MAGIC, 131
- linux\_aio\_context, 69
  - ctx\_nreq\_cur, 69
  - ctx\_nreq\_max, 69
  - ctx\_pid, 69
  - ctx\_pring, 69
  - ctx\_sx, 70
- linux\_aio\_context\_t
  - linux\_aio.h, 132
- LINUX\_AIO\_CTX\_FOREACH
  - linux\_aio.c, 123
- LINUX\_AIO\_CTX\_FOREACH\_SAFE
  - linux\_aio.c, 124
- LINUX\_AIO\_CTX\_HOOK
  - linux\_aio.c, 124
- LINUX\_AIO\_CTX\_LIST\_LOCK
  - linux\_aio.c, 124
- LINUX\_AIO\_CTX\_LIST\_UNLOCK
  - linux\_aio.c, 124
- LINUX\_AIO\_CTX\_LOCK
  - linux\_aio.c, 124
- LINUX\_AIO\_CTX\_MATCH
  - linux\_aio.c, 124
- LINUX\_AIO\_CTX\_UNHOOK
  - linux\_aio.c, 124
- LINUX\_AIO\_CTX\_UNLOCK
  - linux\_aio.c, 124
- LINUX\_AIO\_DEBUG
  - linux\_aio.c, 125
- linux\_aio\_dump\_freebsd\_aiocb
  - linux\_aio.c, 127
- LINUX\_AIO\_LOCK
  - linux\_aio.c, 125
- linux\_aio\_mod
  - linux\_aio.c, 130
- linux\_aio\_modload
  - linux\_aio.c, 127
- LINUX\_AIO\_PADDED
  - linux\_aio.h, 131
  - linux\_iocb, 93
- linux\_aio\_proc\_rundown
  - linux\_aio.c, 127
- LINUX\_AIO\_REQ\_FOREACH
  - linux\_aio.c, 125
- LINUX\_AIO\_REQ\_FOREACH\_SAFE
  - linux\_aio.c, 125
- LINUX\_AIO\_REQ\_HOOK
  - linux\_aio.c, 125
- LINUX\_AIO\_REQ\_UNHOOK
  - linux\_aio.c, 125
- linux\_aio\_request, 71
  - req\_linux, 71
  - req\_pbsd, 71
  - req\_porig, 71
- linux\_aio\_ring, 72
  - ring\_compat\_features, 72
  - ring\_head, 72
  - ring\_header\_length, 72
  - ring\_id, 72
  - ring\_incompat\_features, 72
  - ring\_io\_events, 73
  - ring\_magic, 73
  - ring\_nr, 73
  - ring\_tail, 73
- LINUX\_AIO\_RING\_COMPAT\_FEATURES
  - linux\_aio.h, 131
- LINUX\_AIO\_RING\_INCOMPAT\_FEATURES
  - linux\_aio.h, 131
- LINUX\_AIO\_RING\_MAGIC
  - linux\_aio.h, 131
- LINUX\_AIO\_UNLOCK
  - linux\_aio.c, 126
- linux\_alarm
  - linux\_misc.c, 253
- LINUX\_ASYNC\_AUTO\_IRQ
  - linux\_ioctl.h, 185
- LINUX\_ASYNC\_CALLOUT\_NOHUP
  - linux\_ioctl.h, 185

- LINUX\_ASYNC\_CLOSING\_WAIT\_INF
  - linux\_ioctl.h, 185
- LINUX\_ASYNC\_CLOSING\_WAIT\_NONE
  - linux\_ioctl.h, 185
- LINUX\_ASYNC\_FLAGS
  - linux\_ioctl.h, 185
- LINUX\_ASYNC\_FOURPORT
  - linux\_ioctl.h, 185
- LINUX\_ASYNC\_HUP\_NOTIFY
  - linux\_ioctl.h, 185
- LINUX\_ASYNC\_PGRP\_LOCKOUT
  - linux\_ioctl.h, 185
- LINUX\_ASYNC\_SAK
  - linux\_ioctl.h, 186
- LINUX\_ASYNC\_SESSION\_LOCKOUT
  - linux\_ioctl.h, 186
- LINUX\_ASYNC\_SKIP\_TEST
  - linux\_ioctl.h, 186
- LINUX\_ASYNC\_SPD\_CUST
  - linux\_ioctl.h, 186
- LINUX\_ASYNC\_SPD\_HI
  - linux\_ioctl.h, 186
- LINUX\_ASYNC\_SPD\_MASK
  - linux\_ioctl.h, 186
- LINUX\_ASYNC\_SPD\_VHI
  - linux\_ioctl.h, 186
- LINUX\_ASYNC\_SPLIT\_TERMIOS
  - linux\_ioctl.h, 186
- LINUX\_B0
  - linux\_ioctl.h, 186
- LINUX\_B110
  - linux\_ioctl.h, 186
- LINUX\_B115200
  - linux\_ioctl.h, 186
- LINUX\_B1200
  - linux\_ioctl.h, 187
- LINUX\_B134
  - linux\_ioctl.h, 187
- LINUX\_B150
  - linux\_ioctl.h, 187
- LINUX\_B1800
  - linux\_ioctl.h, 187
- LINUX\_B19200
  - linux\_ioctl.h, 187
- LINUX\_B200
  - linux\_ioctl.h, 187
- LINUX\_B2400
  - linux\_ioctl.h, 187
- LINUX\_B300
  - linux\_ioctl.h, 187
- LINUX\_B38400
  - linux\_ioctl.h, 187
- LINUX\_B4800
  - linux\_ioctl.h, 187
- LINUX\_B50
  - linux\_ioctl.h, 187
- LINUX\_B57600
  - linux\_ioctl.h, 188
- LINUX\_B600
  - linux\_ioctl.h, 188
- LINUX\_B75
  - linux\_ioctl.h, 188
- LINUX\_B9600
  - linux\_ioctl.h, 188
- linux\_bind
  - linux\_socket.c, 273
- linux\_bind\_args, 74
  - name, 74
  - namelen, 74
  - s, 74
- LINUX\_BLKFLSBUF
  - linux\_ioctl.h, 188
- LINUX\_BLKFRAGET
  - linux\_ioctl.h, 188
- LINUX\_BLKFRASET
  - linux\_ioctl.h, 188
- LINUX\_BLKGETSIZE
  - linux\_ioctl.h, 188
- LINUX\_BLKRAGET
  - linux\_ioctl.h, 188
- LINUX\_BLKRASET
  - linux\_ioctl.h, 188
- LINUX\_BLKROGET
  - linux\_ioctl.h, 188
- LINUX\_BLKROSET
  - linux\_ioctl.h, 189
- LINUX\_BLKRRPART
  - linux\_ioctl.h, 189
- LINUX\_BLKSECTGET
  - linux\_ioctl.h, 189
- LINUX\_BLKSECTSET
  - linux\_ioctl.h, 189
- LINUX\_BLKSSZGET
  - linux\_ioctl.h, 189
- linux\_brk
  - linux\_misc.c, 253
- LINUX\_BRKINT
  - linux\_ioctl.h, 189
- LINUX\_BSO
  - linux\_ioctl.h, 189
- LINUX\_BS1
  - linux\_ioctl.h, 189
- LINUX\_BSDLY
  - linux\_ioctl.h, 189
- LINUX\_CBAUD
  - linux\_ioctl.h, 189
- LINUX\_CBAUDEX
  - linux\_ioctl.h, 189

- linux\_cdrom\_addr, 75
  - frame, 75
  - lba, 75
  - minute, 75
  - msf, 75
  - second, 75
- LINUX\_CDROM\_CHANGER\_NSLOTS
  - linux\_ioctl.h, 190
- LINUX\_CDROM\_CLEAR\_OPTIONS
  - linux\_ioctl.h, 190
- LINUX\_CDROM\_DEBUG
  - linux\_ioctl.h, 190
- LINUX\_CDROM\_DISC\_STATUS
  - linux\_ioctl.h, 190
- LINUX\_CDROM\_DRIVE\_STATUS
  - linux\_ioctl.h, 190
- LINUX\_CDROM\_GET\_CAPABILITY
  - linux\_ioctl.h, 190
- LINUX\_CDROM\_GET\_UPC
  - linux\_ioctl.h, 190
- LINUX\_CDROM\_LAST\_WRITTEN
  - linux\_ioctl.h, 190
- LINUX\_CDROM\_LBA
  - linux\_ioctl.h, 190
- LINUX\_CDROM\_LOCKDOOR
  - linux\_ioctl.h, 190
- LINUX\_CDROM\_MEDIA\_CHANGED
  - linux\_ioctl.h, 190
- LINUX\_CDROM\_MSF
  - linux\_ioctl.h, 191
- linux\_cdrom\_msf, 76
  - cdmsf\_frame0, 76
  - cdmsf\_frame1, 76
  - cdmsf\_min0, 76
  - cdmsf\_min1, 76
  - cdmsf\_sec0, 76
  - cdmsf\_sec1, 76
- LINUX\_CDROM\_NEXT\_WRITABLE
  - linux\_ioctl.h, 191
- LINUX\_CDROM\_SELECT\_DISC
  - linux\_ioctl.h, 191
- LINUX\_CDROM\_SELECT\_SPEED
  - linux\_ioctl.h, 191
- LINUX\_CDROM\_SEND\_PACKET
  - linux\_ioctl.h, 191
- LINUX\_CDROM\_SET\_OPTIONS
  - linux\_ioctl.h, 191
- linux\_cdrom\_subchnl, 77
  - cdsc\_absaddr, 77
  - cdsc\_adr, 77
  - cdsc\_audiostatus, 77
  - cdsc\_ctrl, 77
  - cdsc\_format, 77
  - cdsc\_ind, 77
  - cdsc\_reladdr, 78
  - cdsc\_trk, 78
- linux\_cdrom\_tocentry, 79
  - cdte\_addr, 79
  - cdte\_adr, 79
  - cdte\_ctrl, 79
  - cdte\_datamode, 79
  - cdte\_format, 79
  - cdte\_track, 79
- linux\_cdrom\_tochdr, 81
  - cdth\_trk0, 81
  - cdth\_trk1, 81
- LINUX\_CDROMAUDIOBUFSIZ
  - linux\_ioctl.h, 191
- LINUX\_CDROMCLOSETRAY
  - linux\_ioctl.h, 191
- LINUX\_CDROMEJECT
  - linux\_ioctl.h, 191
- LINUX\_CDROMEJECT\_SW
  - linux\_ioctl.h, 191
- LINUX\_CDROMGETSPINDOWN
  - linux\_ioctl.h, 191
- LINUX\_CDROMLOADFROMSLOT
  - linux\_ioctl.h, 192
- LINUX\_CDROMMULTISESSION
  - linux\_ioctl.h, 192
- LINUX\_CDROMPAUSE
  - linux\_ioctl.h, 192
- LINUX\_CDROMPLAYBLK
  - linux\_ioctl.h, 192
- LINUX\_CDROMPLAYMSF
  - linux\_ioctl.h, 192
- LINUX\_CDROMPLAYTRKIND
  - linux\_ioctl.h, 192
- LINUX\_CDROMREADALL
  - linux\_ioctl.h, 192
- LINUX\_CDROMREADAUDIO
  - linux\_ioctl.h, 192
- LINUX\_CDROMREADCOOKED
  - linux\_ioctl.h, 192
- LINUX\_CDROMREADMODE1
  - linux\_ioctl.h, 192
- LINUX\_CDROMREADMODE2
  - linux\_ioctl.h, 193
- LINUX\_CDROMREADRAW
  - linux\_ioctl.h, 193
- LINUX\_CDROMREADTOCENTRY
  - linux\_ioctl.h, 193
- LINUX\_CDROMREADTOCHDR
  - linux\_ioctl.h, 193
- LINUX\_CDROMRESET
  - linux\_ioctl.h, 193
- LINUX\_CDROMRESUME
  - linux\_ioctl.h, 193



- LINUX\_CDROMSEEK
  - linux\_ioctl.h, 193
- LINUX\_CDROMSETSPINDOWN
  - linux\_ioctl.h, 193
- LINUX\_CDROMSTART
  - linux\_ioctl.h, 193
- LINUX\_CDROMSTOP
  - linux\_ioctl.h, 193
- LINUX\_CDROMSUBCHNL
  - linux\_ioctl.h, 194
- LINUX\_CDROMVOLCTRL
  - linux\_ioctl.h, 194
- LINUX\_CDROMVOLREAD
  - linux\_ioctl.h, 194
- linux\_char\_device
  - linux\_device\_handler, 83
- linux\_chdir
  - linux\_file.c, 144
- linux\_check\_hdrincl
  - linux\_socket.c, 273
- linux\_chmod
  - linux\_file.c, 144
- linux\_chown
  - linux\_file.c, 144
- linux\_chown16
  - linux\_uid16.c, 301
- LINUX\_CLOCAL
  - linux\_ioctl.h, 194
- linux\_clock\_getres
  - linux\_time.c, 297
- linux\_clock\_gettime
  - linux\_time.c, 297
- linux\_clock\_nanosleep
  - linux\_time.c, 297
- linux\_clock\_settime
  - linux\_time.c, 298
- LINUX\_CODA\_SUPER\_MAGIC
  - linux\_stats.c, 286
- linux\_connect
  - linux\_socket.c, 273
- linux\_connect\_args, 82
  - name, 82
  - namelen, 82
  - s, 82
- LINUX\_CR0
  - linux\_ioctl.h, 194
- LINUX\_CR1
  - linux\_ioctl.h, 194
- LINUX\_CR2
  - linux\_ioctl.h, 194
- LINUX\_CR3
  - linux\_ioctl.h, 194
- LINUX\_CRDLY
  - linux\_ioctl.h, 194
- LINUX\_CREAD
  - linux\_ioctl.h, 194
- linux\_creat
  - linux\_file.c, 144
- LINUX\_CRTSCTS
  - linux\_ioctl.h, 195
- LINUX\_CS5
  - linux\_ioctl.h, 195
- LINUX\_CS6
  - linux\_ioctl.h, 195
- LINUX\_CS7
  - linux\_ioctl.h, 195
- LINUX\_CS8
  - linux\_ioctl.h, 195
- LINUX\_CSIZE
  - linux\_ioctl.h, 195
- LINUX\_CSTOPB
  - linux\_ioctl.h, 195
- LINUX\_CTL\_BUS
  - linux\_sysctl.c, 293
- LINUX\_CTL\_DEBUG
  - linux\_sysctl.c, 293
- LINUX\_CTL\_DEV
  - linux\_sysctl.c, 293
- LINUX\_CTL\_FS
  - linux\_sysctl.c, 293
- LINUX\_CTL\_KERN
  - linux\_sysctl.c, 293
- LINUX\_CTL\_NET
  - linux\_sysctl.c, 293
- LINUX\_CTL\_PROC
  - linux\_sysctl.c, 293
- LINUX\_CTL\_VM
  - linux\_sysctl.c, 294
- LINUX\_DEVFS\_SUPER\_MAGIC
  - linux\_stats.c, 286
- linux\_device\_handler, 83
  - bsd\_device\_name, 83
  - bsd\_driver\_name, 83
  - linux\_char\_device, 83
  - linux\_device\_name, 83
  - linux\_driver\_name, 83
  - linux\_major, 83
  - linux\_minor, 83
- linux\_device\_name
  - linux\_device\_handler, 83
- linux\_device\_register\_handler
  - linux\_util.c, 305
  - linux\_util.h, 310
- linux\_device\_unregister\_handler
  - linux\_util.c, 305
  - linux\_util.h, 310
- LINUX\_DIRBLKSIZ
  - linux\_file.c, 143

- linux\_do\_sigaction
  - linux\_signal.c, 262
  - linux\_signal.h, 267
- linux\_do\_sigprocmask
  - linux\_signal.c, 262
- linux\_driver\_get\_major\_minor
  - linux\_util.c, 305
  - linux\_util.h, 310
- linux\_driver\_get\_name\_dev
  - linux\_util.c, 305
  - linux\_util.h, 310
- linux\_driver\_name
  - linux\_device\_handler, 83
- LINUX\_DVD\_AUTH
  - linux\_ioctl.h, 195
- LINUX\_DVD\_AUTH\_ESTABLISHED
  - linux\_ioctl.h, 195
- LINUX\_DVD\_AUTH\_FAILURE
  - linux\_ioctl.h, 195
- LINUX\_DVD\_HOST\_SEND\_CHALLENGE
  - linux\_ioctl.h, 196
- LINUX\_DVD\_HOST\_SEND\_KEY2
  - linux\_ioctl.h, 196
- LINUX\_DVD\_HOST\_SEND\_RPC\_STATE
  - linux\_ioctl.h, 196
- LINUX\_DVD\_INVALIDATE\_AGID
  - linux\_ioctl.h, 196
- LINUX\_DVD\_LU\_SEND\_AGID
  - linux\_ioctl.h, 196
- LINUX\_DVD\_LU\_SEND\_ASF
  - linux\_ioctl.h, 196
- LINUX\_DVD\_LU\_SEND\_CHALLENGE
  - linux\_ioctl.h, 196
- LINUX\_DVD\_LU\_SEND\_KEY1
  - linux\_ioctl.h, 196
- LINUX\_DVD\_LU\_SEND\_RPC\_STATE
  - linux\_ioctl.h, 196
- LINUX\_DVD\_LU\_SEND\_TITLE\_KEY
  - linux\_ioctl.h, 197
- LINUX\_DVD\_READ\_STRUCT
  - linux\_ioctl.h, 197
- LINUX\_DVD\_WRITE\_STRUCT
  - linux\_ioctl.h, 197
- LINUX\_ECHO
  - linux\_ioctl.h, 197
- LINUX\_ECHOCTL
  - linux\_ioctl.h, 197
- LINUX\_ECHOE
  - linux\_ioctl.h, 197
- LINUX\_ECHOK
  - linux\_ioctl.h, 197
- LINUX\_ECHOE
  - linux\_ioctl.h, 197
- LINUX\_ECHONL
  - linux\_ioctl.h, 197
- linux\_ioctl.h, 197
- LINUX\_ECHOPRT
  - linux\_ioctl.h, 198
- linux\_emul.c
  - \_\_FBSDID, 135
  - em\_find, 135
  - emul\_lock, 136
  - emul\_shared\_lock, 136
  - linux\_proc\_exec, 135
  - linux\_proc\_exit, 135
  - linux\_proc\_init, 135
  - linux\_schedtail, 136
  - linux\_set\_tid\_address, 136
- linux\_emul.h
  - em\_find, 138
  - EMUL\_DOLOCK, 137
  - EMUL\_DONTLOCK, 137
  - EMUL\_LOCK, 138
  - emul\_lock, 139
  - emul\_shared\_lock, 139
  - EMUL\_SHARED\_RLOCK, 138
  - EMUL\_SHARED\_RUNLOCK, 138
  - EMUL\_SHARED\_WLOCK, 138
  - EMUL\_SHARED\_WUNLOCK, 138
  - EMUL\_UNLOCK, 138
  - linux\_proc\_exec, 139
  - linux\_proc\_exit, 139
  - linux\_proc\_init, 139
  - linux\_schedtail, 139
- linux\_emul\_convpath
  - linux\_util.c, 305
  - linux\_util.h, 310
- linux\_emul\_path
  - linux\_util.c, 306
  - linux\_util.h, 310
- linux\_emuldata, 85
  - child\_clear\_tid, 85
  - child\_set\_tid, 85
  - LIST\_ENTRY, 85
  - pdeath\_signal, 85
  - pid, 86
  - shared, 86
- linux\_emuldata\_shared, 87
  - group\_pid, 87
  - LIST\_HEAD, 87
  - refs, 87
- linux\_exit\_group
  - linux\_misc.c, 253
- LINUX\_EXT2\_SUPER\_MAGIC
  - linux\_stats.c, 286
- LINUX\_EXTATA
  - linux\_ioctl.h, 198
- LINUX\_EXTB
  - linux\_ioctl.h, 198

- linux\_fcntl
  - linux\_file.c, 144
- linux\_fdatasync
  - linux\_file.c, 144
- LINUX\_FF0
  - linux\_ioctl.h, 198
- LINUX\_FF1
  - linux\_ioctl.h, 198
- LINUX\_FFDLY
  - linux\_ioctl.h, 198
- linux\_file.c
  - \_\_FBSDID, 143
  - bsd\_to\_linux\_flock, 143
  - DEFAULT\_ROOTID, 143
  - fcntl\_common, 143
  - getdents\_common, 143
  - linux\_access, 144
  - linux\_chdir, 144
  - linux\_chmod, 144
  - linux\_chown, 144
  - linux\_creat, 144
  - LINUX\_DIRBLKSIZ, 143
  - linux\_fcntl, 144
  - linux\_fdatasync, 144
  - linux\_ftruncate, 144
  - linux\_getdents, 145
  - linux\_getdents64, 145
  - linux\_lchown, 145
  - linux\_link, 145
  - linux\_llseek, 145
  - linux\_lseek, 145
  - linux\_mkdir, 146
  - linux\_mount, 146
  - linux\_oldumount, 146
  - linux\_open, 146
  - linux\_pread, 146
  - linux\_pwrite, 146
  - linux\_readdir, 146
  - linux\_readlink, 147
  - LINUX\_RECLEN, 143
  - linux\_rename, 147
  - linux\_rmdir, 147
  - linux\_symlink, 147
  - linux\_to\_bsd\_flock, 147
  - linux\_truncate, 147
  - linux\_umount, 147
  - linux\_unlink, 148
- LINUX\_FIOASYNC
  - linux\_ioctl.h, 198
- LINUX\_FIOCLEX
  - linux\_ioctl.h, 198
- LINUX\_FIOGETOWN
  - linux\_ioctl.h, 198
- LINUX\_FIONBIO
  - linux\_ioctl.h, 198
- LINUX\_FIONCLEX
  - linux\_ioctl.h, 199
- LINUX\_FIONREAD
  - linux\_ioctl.h, 199
- LINUX\_FIOSETOWN
  - linux\_ioctl.h, 199
- LINUX\_FLUSHO
  - linux\_ioctl.h, 199
- linux\_free\_get\_char\_devices
  - linux\_util.c, 305
  - linux\_util.h, 310
- linux\_fstatfs
  - linux\_stats.c, 288
- linux\_ftruncate
  - linux\_file.c, 144
- linux\_futex.c
  - \_\_FBSDID, 151
  - futex\_get, 151
  - FUTEX\_LOCK, 150
  - FUTEX\_LOCKED, 150
  - futex\_put, 151
  - futex\_sleep, 151
  - FUTEX\_SYSTEM\_LOCK, 150
  - FUTEX\_SYSTEM\_UNLOCK, 150
  - FUTEX\_UNLOCK, 150
  - FUTEX\_UNLOCKED, 150
  - futex\_wake, 151
  - LIST\_HEAD, 151
- linux\_futex.h
  - FUTEX\_OP\_ADD, 152
  - FUTEX\_OP\_ANDN, 152
  - FUTEX\_OP\_CMP\_EQ, 152
  - FUTEX\_OP\_CMP\_GE, 152
  - FUTEX\_OP\_CMP\_GT, 152
  - FUTEX\_OP\_CMP\_LE, 153
  - FUTEX\_OP\_CMP\_LT, 153
  - FUTEX\_OP\_CMP\_NE, 153
  - FUTEX\_OP\_OPARG\_SHIFT, 153
  - FUTEX\_OP\_OR, 153
  - FUTEX\_OP\_SET, 153
  - FUTEX\_OP\_XOR, 153
  - LINUX\_FUTEX\_CMP\_REQUEUE, 153
  - LINUX\_FUTEX\_FD, 153
  - LINUX\_FUTEX\_REQUEUE, 153
  - LINUX\_FUTEX\_WAIT, 153
  - LINUX\_FUTEX\_WAKE, 154
  - LINUX\_FUTEX\_WAKE\_OP, 154
- LINUX\_FUTEX\_CMP\_REQUEUE
  - linux\_futex.h, 153
- LINUX\_FUTEX\_FD
  - linux\_futex.h, 153
- LINUX\_FUTEX\_REQUEUE
  - linux\_futex.h, 153

- LINUX\_FUTEX\_WAIT
  - linux\_futex.h, 153
- LINUX\_FUTEX\_WAKE
  - linux\_futex.h, 154
- LINUX\_FUTEX\_WAKE\_OP
  - linux\_futex.h, 154
- linux\_get\_char\_devices
  - linux\_util.c, 305
  - linux\_util.h, 310
- linux\_get\_osname
  - linux\_mib.c, 240
  - linux\_mib.h, 244
- linux\_get\_osrelease
  - linux\_mib.c, 240
  - linux\_mib.h, 244
- linux\_get\_oss\_version
  - linux\_mib.c, 240
  - linux\_mib.h, 244
- linux\_get\_prison
  - linux\_mib.c, 241
- linux\_getcwd
  - linux\_getcwd.c, 157
- linux\_getcwd.c
  - \_\_FBSDID, 157
  - DIRENT\_MINSIZE, 157
  - GETCWD\_CHECK\_ACCESS, 157
  - linux\_getcwd, 157
  - linux\_getcwd\_common, 157
  - linux\_getcwd\_scandir, 157
- linux\_getcwd\_common
  - linux\_getcwd.c, 157
- linux\_getcwd\_scandir
  - linux\_getcwd.c, 157
- linux\_getdents
  - linux\_file.c, 145
- linux\_getdents64
  - linux\_file.c, 145
- linux\_getegid16
  - linux\_uid16.c, 301
- linux\_geteuid16
  - linux\_uid16.c, 301
- linux\_getgid
  - linux\_misc.c, 253
- linux\_getgid16
  - linux\_uid16.c, 301
- linux\_getgroups
  - linux\_misc.c, 253
- linux\_getgroups16
  - linux\_uid16.c, 301
- linux\_getitimer
  - linux\_misc.c, 253
- linux\_getpeername
  - linux\_socket.c, 273
- linux\_getpeername\_args, 88
  - addr, 88
  - namelen, 88
  - s, 88
- linux\_getpid
  - linux\_misc.c, 253
- linux\_getppid
  - linux\_misc.c, 254
- linux\_getpriority
  - linux\_misc.c, 254
- linux\_getrlimit
  - linux\_misc.c, 254
- linux\_getsid
  - linux\_misc.c, 254
- linux\_getsockaddr
  - linux\_socket.c, 274
- linux\_getsockname
  - linux\_socket.c, 274
- linux\_getsockname\_args, 89
  - addr, 89
  - namelen, 89
  - s, 89
- linux\_getsockopt
  - linux\_socket.c, 274
- linux\_getsockopt\_args, 90
  - level, 90
  - optlen, 90
  - optname, 90
  - optval, 90
  - s, 90
- linux\_gettid
  - linux\_misc.c, 254
- linux\_getuid
  - linux\_misc.c, 254
- linux\_getuid16
  - linux\_uid16.c, 301
- linux\_gifflags
  - linux\_ioctl.c, 166
- linux\_gifhwaddr
  - linux\_ioctl.c, 166
- linux\_hd\_big\_geometry, 91
  - cylinders, 91
  - heads, 91
  - sectors, 91
  - start, 91
- LINUX\_HDIO\_GET\_GEO
  - linux\_ioctl.h, 199
- LINUX\_HDIO\_GET\_GEO\_BIG
  - linux\_ioctl.h, 199
- LINUX\_HDIO\_GET\_IDENTITY
  - linux\_ioctl.h, 199
- LINUX\_HPFS\_SUPER\_MAGIC
  - linux\_stats.c, 286
- LINUX\_HUPCL
  - linux\_ioctl.h, 199

- LINUX\_ICANON
  - linux\_ioctl.h, 199
- LINUX\_ICRNL
  - linux\_ioctl.h, 200
- LINUX\_IEXTEN
  - linux\_ioctl.h, 200
- linux\_ifconf
  - linux\_ioctl.c, 167
- linux\_ifname
  - linux\_ioctl.c, 167
  - linux\_ioctl.h, 227
- LINUX\_IGNBRK
  - linux\_ioctl.h, 200
- LINUX\_IGNCR
  - linux\_ioctl.h, 200
- LINUX\_IGNPAR
  - linux\_ioctl.h, 200
- LINUX\_IMAXBEL
  - linux\_ioctl.h, 200
- LINUX\_INLCR
  - linux\_ioctl.h, 200
- LINUX\_INPCK
  - linux\_ioctl.h, 200
- linux\_io\_cancel
  - linux\_aio.c, 127
- linux\_io\_destroy
  - linux\_aio.c, 128
- linux\_io\_event, 92
  - data, 92
  - obj, 92
  - res, 92
  - res2, 92
- linux\_io\_getevents
  - linux\_aio.c, 128
- linux\_io\_setup
  - linux\_aio.c, 128
- linux\_io\_submit
  - linux\_aio.c, 129
- linux\_iocb, 93
  - aio\_buf, 93
  - aio\_data, 93
  - aio\_fildes, 93
  - aio\_lio\_opcode, 93
  - aio\_nbytes, 94
  - aio\_offset, 94
  - aio\_reqprio, 94
  - aio\_reserved2, 94
  - aio\_reserved3, 94
  - LINUX\_AIO\_PADDED, 93
- LINUX\_IOCTL\_CMD\_FDSYNC
  - linux\_aio.h, 132
- LINUX\_IOCTL\_CMD\_FSYNC
  - linux\_aio.h, 132
- LINUX\_IOCTL\_CMD\_NOOP
  - linux\_aio.h, 132
- LINUX\_IOCTL\_CMD\_PREAD
  - linux\_aio.h, 132
- LINUX\_IOCTL\_CMD\_PWRITE
  - linux\_aio.h, 132
- linux\_ioctl
  - linux\_ioctl.c, 167
- linux\_ioctl.c
  - \_\_FBSID, 164
  - ARPHRD\_ETHER, 163
  - ARPHRD\_LOOPBACK, 163
  - bsd\_to\_linux\_dvd\_authinfo, 164
  - bsd\_to\_linux\_dvd\_struct, 164
  - bsd\_to\_linux\_ifreq, 164
  - bsd\_to\_linux\_msf\_lba, 165
  - bsd\_to\_linux\_speed, 165
  - bsd\_to\_linux\_termio, 165
  - bsd\_to\_linux\_termios, 165
  - cdrom\_handler, 173
  - console\_handler, 173
  - CTASSERT, 166
  - DATA\_SET, 166
  - dirbits, 173
  - disk\_handler, 173
  - drm\_handler, 173
  - hdio\_handler, 173
  - ifname\_linux\_to\_bsd, 166
  - IFP\_IS\_ETH, 163
  - ISSIGVALID, 163
  - l\_dvd\_challenge, 164
  - l\_dvd\_key, 164
  - linux\_gifflags, 166
  - linux\_gifhwaddr, 166
  - linux\_ifconf, 167
  - linux\_ifname, 167
  - linux\_ioctl, 167
  - linux\_ioctl\_cdrom, 167, 173
  - linux\_ioctl\_console, 168, 174
  - linux\_ioctl\_disk, 168, 174
  - linux\_ioctl\_drm, 168, 174
  - linux\_ioctl\_hdio, 168, 174
  - linux\_ioctl\_private, 168, 174
  - linux\_ioctl\_register\_handler, 169
  - linux\_ioctl\_socket, 169, 174
  - linux\_ioctl\_sound, 169, 174
  - linux\_ioctl\_special, 170, 174
  - linux\_ioctl\_termio, 170, 174
  - linux\_ioctl\_unregister\_handler, 171
  - linux\_ioctl\_vfat, 171, 174
  - linux\_to\_bsd\_dvd\_authinfo, 171
  - linux\_to\_bsd\_dvd\_struct, 171
  - linux\_to\_bsd\_speed, 171
  - linux\_to\_bsd\_termio, 171
  - linux\_to\_bsd\_termios, 172

- private\_handler, 174
- set\_linux\_cdrom\_addr, 172
- SETDIR, 163
- socket\_handler, 175
- sound\_handler, 175
- sptab, 175
- TAILQ\_HEAD, 172
- termio\_handler, 175
- vfat\_handler, 175
- linux\_ioctl.h
  - LINUX\_ASYNC\_AUTO\_IRQ, 185
  - LINUX\_ASYNC\_CALLOUT\_NOHUP, 185
  - LINUX\_ASYNC\_CLOSING\_WAIT\_INF, 185
  - LINUX\_ASYNC\_CLOSING\_WAIT\_NONE, 185
  - LINUX\_ASYNC\_FLAGS, 185
  - LINUX\_ASYNC\_FOURPORT, 185
  - LINUX\_ASYNC\_HUP\_NOTIFY, 185
  - LINUX\_ASYNC\_PGRP\_LOCKOUT, 185
  - LINUX\_ASYNC\_SAK, 186
  - LINUX\_ASYNC\_SESSION\_LOCKOUT, 186
  - LINUX\_ASYNC\_SKIP\_TEST, 186
  - LINUX\_ASYNC\_SPD\_CUST, 186
  - LINUX\_ASYNC\_SPD\_HI, 186
  - LINUX\_ASYNC\_SPD\_MASK, 186
  - LINUX\_ASYNC\_SPD\_VHI, 186
  - LINUX\_ASYNC\_SPLIT\_TERMIOS, 186
  - LINUX\_B0, 186
  - LINUX\_B110, 186
  - LINUX\_B115200, 186
  - LINUX\_B1200, 187
  - LINUX\_B134, 187
  - LINUX\_B150, 187
  - LINUX\_B1800, 187
  - LINUX\_B19200, 187
  - LINUX\_B200, 187
  - LINUX\_B2400, 187
  - LINUX\_B300, 187
  - LINUX\_B38400, 187
  - LINUX\_B4800, 187
  - LINUX\_B50, 187
  - LINUX\_B57600, 188
  - LINUX\_B600, 188
  - LINUX\_B75, 188
  - LINUX\_B9600, 188
  - LINUX\_BLKFLSBUF, 188
  - LINUX\_BLKFRAGET, 188
  - LINUX\_BLKFRASET, 188
  - LINUX\_BLKGETSIZE, 188
  - LINUX\_BLKRAGET, 188
  - LINUX\_BLKRASET, 188
  - LINUX\_BLKROGET, 188
  - LINUX\_BLKROSET, 189
  - LINUX\_BLKRRPART, 189
  - LINUX\_BLKSECTGET, 189
  - LINUX\_BLKSECTSET, 189
  - LINUX\_BLKSSZGET, 189
  - LINUX\_BRKINT, 189
  - LINUX\_BS0, 189
  - LINUX\_BS1, 189
  - LINUX\_BSDLY, 189
  - LINUX\_CBAUD, 189
  - LINUX\_CBAUDEX, 189
  - LINUX\_CDROM\_CHANGER\_NSLOTS, 190
  - LINUX\_CDROM\_CLEAR\_OPTIONS, 190
  - LINUX\_CDROM\_DEBUG, 190
  - LINUX\_CDROM\_DISC\_STATUS, 190
  - LINUX\_CDROM\_DRIVE\_STATUS, 190
  - LINUX\_CDROM\_GET\_CAPABILITY, 190
  - LINUX\_CDROM\_GET\_UPC, 190
  - LINUX\_CDROM\_LAST\_WRITTEN, 190
  - LINUX\_CDROM\_LBA, 190
  - LINUX\_CDROM\_LOCKDOOR, 190
  - LINUX\_CDROM\_MEDIA\_CHANGED, 190
  - LINUX\_CDROM\_MSF, 191
  - LINUX\_CDROM\_NEXT\_WRITABLE, 191
  - LINUX\_CDROM\_SELECT\_DISC, 191
  - LINUX\_CDROM\_SELECT\_SPEED, 191
  - LINUX\_CDROM\_SEND\_PACKET, 191
  - LINUX\_CDROM\_SET\_OPTIONS, 191
  - LINUX\_CDROMAUDIOBUFSIZ, 191
  - LINUX\_CDROMCLOSETRAY, 191
  - LINUX\_CDROMEJECT, 191
  - LINUX\_CDROMEJECT\_SW, 191
  - LINUX\_CDROMGETSPINDOWN, 191
  - LINUX\_CDROMLOADFROMSLOT, 192
  - LINUX\_CDROMMULTISESSION, 192
  - LINUX\_CDROMPAUSE, 192
  - LINUX\_CDROMPLAYBLK, 192
  - LINUX\_CDROMPLAYMSF, 192
  - LINUX\_CDROMPLAYTRKIND, 192
  - LINUX\_CDROMREADALL, 192
  - LINUX\_CDROMREADAUDIO, 192
  - LINUX\_CDROMREADCOOKED, 192
  - LINUX\_CDROMREADMODE1, 192
  - LINUX\_CDROMREADMODE2, 193
  - LINUX\_CDROMREADDRAW, 193
  - LINUX\_CDROMREADTOCENTRY, 193
  - LINUX\_CDROMREADTOCHDR, 193
  - LINUX\_CDROMRESET, 193
  - LINUX\_CDROMRESUME, 193
  - LINUX\_CDROMSEEK, 193
  - LINUX\_CDROMSETSPINDOWN, 193
  - LINUX\_CDROMSTART, 193
  - LINUX\_CDROMSTOP, 193

- LINUX\_CDROMSUBCHNL, 194
- LINUX\_CDROMVOLCTRL, 194
- LINUX\_CDROMVOLREAD, 194
- LINUX\_CLOCAL, 194
- LINUX\_CR0, 194
- LINUX\_CR1, 194
- LINUX\_CR2, 194
- LINUX\_CR3, 194
- LINUX\_CRDLY, 194
- LINUX\_CREAD, 194
- LINUX\_CRTSCTS, 195
- LINUX\_CS5, 195
- LINUX\_CS6, 195
- LINUX\_CS7, 195
- LINUX\_CS8, 195
- LINUX\_CSIZE, 195
- LINUX\_CSTOPB, 195
- LINUX\_DVD\_AUTH, 195
- LINUX\_DVD\_AUTH\_ESTABLISHED, 195
- LINUX\_DVD\_AUTH\_FAILURE, 195
- LINUX\_DVD\_HOST\_SEND\_CHALLENGE, 196
- LINUX\_DVD\_HOST\_SEND\_KEY2, 196
- LINUX\_DVD\_HOST\_SEND\_RPC\_STATE, 196
- LINUX\_DVD\_INVALIDATE\_AGID, 196
- LINUX\_DVD\_LU\_SEND\_AGID, 196
- LINUX\_DVD\_LU\_SEND\_ASF, 196
- LINUX\_DVD\_LU\_SEND\_CHALLENGE, 196
- LINUX\_DVD\_LU\_SEND\_KEY1, 196
- LINUX\_DVD\_LU\_SEND\_RPC\_STATE, 196
- LINUX\_DVD\_LU\_SEND\_TITLE\_KEY, 197
- LINUX\_DVD\_READ\_STRUCT, 197
- LINUX\_DVD\_WRITE\_STRUCT, 197
- LINUX\_ECHO, 197
- LINUX\_ECHOCTL, 197
- LINUX\_ECHOE, 197
- LINUX\_ECHOK, 197
- LINUX\_ECHOKE, 197
- LINUX\_ECHONL, 197
- LINUX\_ECHOPRT, 198
- LINUX\_EXTA, 198
- LINUX\_EXTB, 198
- LINUX\_FF0, 198
- LINUX\_FF1, 198
- LINUX\_FFDLY, 198
- LINUX\_FIOASYNC, 198
- LINUX\_FIOCLEX, 198
- LINUX\_FIOGETOWN, 198
- LINUX\_FIONBIO, 198
- LINUX\_FIONCLEX, 199
- LINUX\_FIONREAD, 199
- LINUX\_FIOSETOWN, 199
- LINUX\_FLUSHO, 199
- LINUX\_HDIO\_GET\_GEO, 199
- LINUX\_HDIO\_GET\_GEO\_BIG, 199
- LINUX\_HDIO\_GET\_IDENTITY, 199
- LINUX\_HUPCL, 199
- LINUX\_ICANON, 199
- LINUX\_ICRNL, 200
- LINUX\_IEXTEN, 200
- linux\_ifname, 227
- LINUX\_IGNBRK, 200
- LINUX\_IGNCR, 200
- LINUX\_IGNPAR, 200
- LINUX\_IMAXBEL, 200
- LINUX\_INLCR, 200
- LINUX\_INPCK, 200
- LINUX\_IOCTL\_CDROM\_MAX, 200
- LINUX\_IOCTL\_CDROM\_MIN, 201
- LINUX\_IOCTL\_CONSOLE\_MAX, 201
- LINUX\_IOCTL\_CONSOLE\_MIN, 201
- LINUX\_IOCTL\_DISK\_MAX, 201
- LINUX\_IOCTL\_DISK\_MIN, 201
- LINUX\_IOCTL\_DRM\_MAX, 201
- LINUX\_IOCTL\_DRM\_MIN, 201
- LINUX\_IOCTL\_HDIO\_MAX, 201
- LINUX\_IOCTL\_HDIO\_MIN, 201
- LINUX\_IOCTL\_PRIVATE\_MAX, 201
- LINUX\_IOCTL\_PRIVATE\_MIN, 201
- LINUX\_IOCTL\_SOCKET\_MAX, 202
- LINUX\_IOCTL\_SOCKET\_MIN, 202
- LINUX\_IOCTL\_SOUND\_MAX, 202
- LINUX\_IOCTL\_SOUND\_MIN, 202
- LINUX\_IOCTL\_TERMIO\_MAX, 202
- LINUX\_IOCTL\_TERMIO\_MIN, 202
- LINUX\_IOCTL\_VFAT\_MAX, 202
- LINUX\_IOCTL\_VFAT\_MIN, 202
- LINUX\_ISIG, 202
- LINUX\_ISTRIP, 202
- LINUX\_IUCLC, 202
- LINUX\_IXANY, 203
- LINUX\_IXOFF, 203
- LINUX\_IXON, 203
- LINUX\_KBD\_MEDIUMRAW, 203
- LINUX\_KBD\_RAW, 203
- LINUX\_KBD\_XLATE, 203
- LINUX\_KD\_GRAPHICS, 203
- LINUX\_KD\_TEXT, 203
- LINUX\_KD\_TEXT0, 203
- LINUX\_KD\_TEXT1, 203
- LINUX\_KDGETLED, 204
- LINUX\_KDGETMODE, 204
- LINUX\_KDGKBMODE, 204
- LINUX\_KDMKTONE, 204
- LINUX\_KDSETLED, 204
- LINUX\_KDSETMODE, 204



- LINUX\_KDSKBMODE, 204
- LINUX\_KIOCSOUND, 204
- LINUX\_LED\_CAP, 204
- LINUX\_LED\_NUM, 205
- LINUX\_LED\_SCR, 205
- LINUX\_N\_MOUSE, 205
- LINUX\_N\_PPP, 205
- LINUX\_N\_SLIP, 205
- LINUX\_N\_TTY, 205
- LINUX\_NCC, 205
- LINUX\_NCCS, 205
- LINUX\_NL0, 205
- LINUX\_NL1, 205
- LINUX\_NLDLY, 206
- LINUX\_NOFLSH, 206
- LINUX\_OCRNL, 206
- LINUX\_OFDEL, 206
- LINUX\_OFILL, 206
- LINUX\_OLCUC, 206
- LINUX\_ONLCR, 206
- LINUX\_ONLRET, 206
- LINUX\_ONOCR, 206
- LINUX\_OPOST, 206
- LINUX\_OSS\_GETVERSION, 207
- LINUX\_PARENB, 207
- LINUX\_PARMRK, 207
- LINUX\_PARODD, 207
- LINUX\_PENDIN, 207
- LINUX\_PORT\_16450, 207
- LINUX\_PORT\_16550, 207
- LINUX\_PORT\_16550A, 207
- LINUX\_PORT\_16650, 207
- LINUX\_PORT\_8250, 208
- LINUX\_PORT\_CIRRUS, 208
- LINUX\_PORT\_MAX, 208
- LINUX\_PORT\_UNKNOWN, 208
- LINUX\_POSIX\_VDISABLE, 208
- LINUX\_SIOCADMULTI, 208
- LINUX\_SIOCATMARK, 208
- LINUX\_SIOCDELMULTI, 208
- LINUX\_SIOCDEVPRIVATE, 208
- LINUX\_SIOCGIFADDR, 208
- LINUX\_SIOCGIFBRDADDR, 209
- LINUX\_SIOCGIFCONF, 209
- LINUX\_SIOCGIFDSTADDR, 209
- LINUX\_SIOCGIFFLAGS, 209
- LINUX\_SIOCGIFHWADDR, 209
- LINUX\_SIOCGIFMTU, 209
- LINUX\_SIOCGIFNETMASK, 209
- LINUX\_SIOCGPGRP, 209
- LINUX\_SIOCGSTAMP, 209
- LINUX\_SIOCSIFADDR, 210
- LINUX\_SIOCSIFHWADDR, 210
- LINUX\_SIOCSIFMTU, 210
- LINUX\_SIOCSIFNAME, 210
- LINUX\_SIOCSIFNETMASK, 210
- LINUX\_SIOCSIFPGRP, 210
- LINUX\_SNDCTL\_DSP\_GETBLKSIZE, 210
- LINUX\_SNDCTL\_DSP\_GETCAPS, 210
- LINUX\_SNDCTL\_DSP\_GETFMTS, 210
- LINUX\_SNDCTL\_DSP\_GETIPTR, 211
- LINUX\_SNDCTL\_DSP\_GETISPACE, 211
- LINUX\_SNDCTL\_DSP\_GETODELAY, 211
- LINUX\_SNDCTL\_DSP\_GETOPTR, 211
- LINUX\_SNDCTL\_DSP\_GETOSPACE, 211
- LINUX\_SNDCTL\_DSP\_GETTRIGGER, 211
- LINUX\_SNDCTL\_DSP\_NONBLOCK, 211
- LINUX\_SNDCTL\_DSP\_POST, 211
- LINUX\_SNDCTL\_DSP\_RESET, 211
- LINUX\_SNDCTL\_DSP\_SETBLKSIZE, 212
- LINUX\_SNDCTL\_DSP\_SETDUPLEX, 212
- LINUX\_SNDCTL\_DSP\_SETFMT, 212
- LINUX\_SNDCTL\_DSP\_SETFRAGMENT, 212
- LINUX\_SNDCTL\_DSP\_SETTRIGGER, 212
- LINUX\_SNDCTL\_DSP\_SPEED, 212
- LINUX\_SNDCTL\_DSP\_STEREO, 212
- LINUX\_SNDCTL\_DSP\_SUBDIVIDE, 212
- LINUX\_SNDCTL\_DSP\_SYNC, 213
- LINUX\_SNDCTL\_FM\_LOAD\_INSTR, 213
- LINUX\_SNDCTL\_MIDI\_INFO, 213
- LINUX\_SNDCTL\_SEQ\_CTRLRATE, 213
- LINUX\_SNDCTL\_SEQ\_GETINCOUNT, 213
- LINUX\_SNDCTL\_SEQ\_GETOUTCOUNT, 213
- LINUX\_SNDCTL\_SEQ\_NRMIDIS, 213
- LINUX\_SNDCTL\_SEQ\_NRSYNTHS, 213
- LINUX\_SNDCTL\_SEQ\_PERCMODE, 213
- LINUX\_SNDCTL\_SEQ\_RESET, 214
- LINUX\_SNDCTL\_SEQ\_RESETSAMPLES, 214
- LINUX\_SNDCTL\_SEQ\_SYNC, 214
- LINUX\_SNDCTL\_SEQ\_TESTMIDI, 214
- LINUX\_SNDCTL\_SEQ\_TRESHOLD, 214
- LINUX\_SNDCTL\_SYNTH\_INFO, 214
- LINUX\_SNDCTL\_SYNTH\_MEMAVL, 214
- LINUX\_SOUND\_MIXER\_INFO, 214
- LINUX\_SOUND\_MIXER\_READ\_-  
DEVMASK, 214
- LINUX\_SOUND\_MIXER\_READ\_-  
RECMASK, 215
- LINUX\_SOUND\_MIXER\_READ\_-  
STEREODEVS, 215
- LINUX\_SOUND\_MIXER\_WRITE\_-  
ALTPCM, 215
- LINUX\_SOUND\_MIXER\_WRITE\_BASS, 215



- LINUX\_SOUND\_MIXER\_WRITE\_CD, 215
- LINUX\_SOUND\_MIXER\_WRITE\_IGAIN, 215
- LINUX\_SOUND\_MIXER\_WRITE\_IMIX, 215
- LINUX\_SOUND\_MIXER\_WRITE\_LINE, 215
- LINUX\_SOUND\_MIXER\_WRITE\_LINE1, 215
- LINUX\_SOUND\_MIXER\_WRITE\_LINE2, 216
- LINUX\_SOUND\_MIXER\_WRITE\_LINE3, 216
- LINUX\_SOUND\_MIXER\_WRITE\_MIC, 216
- LINUX\_SOUND\_MIXER\_WRITE\_OGAIN, 216
- LINUX\_SOUND\_MIXER\_WRITE\_PCM, 216
- LINUX\_SOUND\_MIXER\_WRITE\_-  
RECLEV, 216
- LINUX\_SOUND\_MIXER\_WRITE\_-  
RECSRC, 216
- LINUX\_SOUND\_MIXER\_WRITE\_-  
SPEAKER, 216
- LINUX\_SOUND\_MIXER\_WRITE\_SYNTH, 216
- LINUX\_SOUND\_MIXER\_WRITE\_-  
TREBLE, 217
- LINUX\_SOUND\_MIXER\_WRITE\_-  
VOLUME, 217
- LINUX\_SOUND\_PCM\_WRITE\_-  
CHANNELS, 217
- LINUX\_SOUND\_PCM\_WRITE\_FILTER, 217
- LINUX\_TAB0, 217
- LINUX\_TAB1, 217
- LINUX\_TAB2, 217
- LINUX\_TAB3, 217
- LINUX\_TABDLY, 217
- LINUX\_TCFLSH, 217
- LINUX\_TCGETA, 218
- LINUX\_TCGETS, 218
- LINUX\_TCIFLUSH, 218
- LINUX\_TCIOFF, 218
- LINUX\_TCIOFLUSH, 218
- LINUX\_TCION, 218
- LINUX\_TCOFLUSH, 218
- LINUX\_TCOOFF, 218
- LINUX\_TCOON, 218
- LINUX\_TCSBRK, 219
- LINUX\_TCSBRKP, 219
- LINUX\_TCSETA, 219
- LINUX\_TCSETAF, 219
- LINUX\_TCSETAW, 219
- LINUX\_TCSETS, 219
- LINUX\_TCSETSFC, 219
- LINUX\_TCSETSW, 219
- LINUX\_TCXONC, 219
- LINUX\_TIOCCBRK, 220
- LINUX\_TIOCCONS, 220
- LINUX\_TIOCEXCL, 220
- LINUX\_TIOCGETD, 220
- LINUX\_TIOCGCLKTRMIO, 220
- LINUX\_TIOCGPGRP, 220
- LINUX\_TIOCGPTN, 220
- LINUX\_TIOCGSERIAL, 220
- LINUX\_TIOCGSOFTCAR, 220
- LINUX\_TIOCGWINSZ, 221
- LINUX\_TIOCINQ, 221
- LINUX\_TIOCLINUX, 221
- LINUX\_TIOCMBIC, 221
- LINUX\_TIOCMBIS, 221
- LINUX\_TIOCMGET, 221
- LINUX\_TIOCMSET, 221
- LINUX\_TIOCNOTTY, 221
- LINUX\_TIOCNXCL, 221
- LINUX\_TIOCOUTQ, 222
- LINUX\_TIOCPKT, 222
- LINUX\_TIOCSBRK, 222
- LINUX\_TIOCSCTTY, 222
- LINUX\_TIOCSERCONFIG, 222
- LINUX\_TIOCSERWILD, 222
- LINUX\_TIOCSERSWILD, 222
- LINUX\_TIOCSETD, 222
- LINUX\_TIOCSLCKTRMIO, 222
- LINUX\_TIOCSPGRP, 222
- LINUX\_TIOCSSERIAL, 223
- LINUX\_TIOCSSOFTCAR, 223
- LINUX\_TIOCSTI, 223
- LINUX\_TIOCSWINSZ, 223
- LINUX\_TIOCTTYGSTRUCT, 223
- LINUX\_TOSTOP, 223
- LINUX\_VDISCARD, 223
- LINUX\_VEOF, 223
- LINUX\_VEOL, 223
- LINUX\_VEOL2, 224
- LINUX\_VERASE, 224
- LINUX\_VFAT\_READDIR\_BOTH, 224
- LINUX\_VINTR, 224
- LINUX\_VKILL, 224
- LINUX\_VLNEXT, 224
- LINUX\_VMIN, 224
- LINUX\_VQUIT, 224
- LINUX\_VREPRINT, 224
- LINUX\_VSTART, 225
- LINUX\_VSTOP, 225
- LINUX\_VSUSP, 225

- LINUX\_VSWTC, 225
- LINUX\_VT0, 225
- LINUX\_VT1, 225
- LINUX\_VT\_ACTIVATE, 225
- LINUX\_VT\_GETMODE, 225
- LINUX\_VT\_GETSTATE, 225
- LINUX\_VT\_OPENQRY, 226
- LINUX\_VT\_RELDISP, 226
- LINUX\_VT\_SETMODE, 226
- LINUX\_VT\_WAITACTIVE, 226
- LINUX\_VTDLY, 226
- LINUX\_VTIME, 226
- LINUX\_VWERASE, 226
- LINUX\_XCASE, 226
- LINUX\_XTABS, 226
- linux\_ioctl\_cdrom
  - linux\_ioctl.c, 167, 173
- LINUX\_IOCTL\_CDROM\_MAX
  - linux\_ioctl.h, 200
- LINUX\_IOCTL\_CDROM\_MIN
  - linux\_ioctl.h, 201
- linux\_ioctl\_console
  - linux\_ioctl.c, 168, 174
- LINUX\_IOCTL\_CONSOLE\_MAX
  - linux\_ioctl.h, 201
- LINUX\_IOCTL\_CONSOLE\_MIN
  - linux\_ioctl.h, 201
- linux\_ioctl\_disk
  - linux\_ioctl.c, 168, 174
- LINUX\_IOCTL\_DISK\_MAX
  - linux\_ioctl.h, 201
- LINUX\_IOCTL\_DISK\_MIN
  - linux\_ioctl.h, 201
- linux\_ioctl\_drm
  - linux\_ioctl.c, 168, 174
- LINUX\_IOCTL\_DRM\_MAX
  - linux\_ioctl.h, 201
- LINUX\_IOCTL\_DRM\_MIN
  - linux\_ioctl.h, 201
- linux\_ioctl\_hdio
  - linux\_ioctl.c, 168, 174
- LINUX\_IOCTL\_HDIO\_MAX
  - linux\_ioctl.h, 201
- LINUX\_IOCTL\_HDIO\_MIN
  - linux\_ioctl.h, 201
- linux\_ioctl\_private
  - linux\_ioctl.c, 168, 174
- LINUX\_IOCTL\_PRIVATE\_MAX
  - linux\_ioctl.h, 201
- LINUX\_IOCTL\_PRIVATE\_MIN
  - linux\_ioctl.h, 201
- linux\_ioctl\_register\_handler
  - linux\_ioctl.c, 169
- linux\_ioctl\_socket
  - linux\_ioctl.c, 169, 174
- LINUX\_IOCTL\_SOCKET\_MAX
  - linux\_ioctl.h, 202
- LINUX\_IOCTL\_SOCKET\_MIN
  - linux\_ioctl.h, 202
- linux\_ioctl\_sound
  - linux\_ioctl.c, 169, 174
- LINUX\_IOCTL\_SOUND\_MAX
  - linux\_ioctl.h, 202
- LINUX\_IOCTL\_SOUND\_MIN
  - linux\_ioctl.h, 202
- linux\_ioctl\_special
  - linux\_ioctl.c, 170, 174
- linux\_ioctl\_termio
  - linux\_ioctl.c, 170, 174
- LINUX\_IOCTL\_TERMIO\_MAX
  - linux\_ioctl.h, 202
- LINUX\_IOCTL\_TERMIO\_MIN
  - linux\_ioctl.h, 202
- linux\_ioctl\_unregister\_handler
  - linux\_ioctl.c, 171
- linux\_ioctl\_vfat
  - linux\_ioctl.c, 171, 174
- LINUX\_IOCTL\_VFAT\_MAX
  - linux\_ioctl.h, 202
- LINUX\_IOCTL\_VFAT\_MIN
  - linux\_ioctl.h, 202
- linux\_ip\_copysize
  - linux\_socket.c, 272
- linux\_ipc.c
  - \_\_FBSDID, 230
  - bsd\_to\_linux\_ipc\_perm, 230
  - bsd\_to\_linux\_msgid\_ds, 230
  - bsd\_to\_linux\_semids, 231
  - bsd\_to\_linux\_shm\_info, 231
  - bsd\_to\_linux\_shmid\_ds, 231
  - bsd\_to\_linux\_shminfo, 232
  - linux\_ipc\_perm\_to\_ipc64\_perm, 232
  - linux\_msgctl, 232
  - linux\_msgget, 232
  - linux\_msgrcv, 232
  - linux\_msgsnd, 232
  - linux\_msgqid\_pullup, 233
  - linux\_msgqid\_pushdown, 233
  - linux\_semctl, 233
  - linux\_semget, 233
  - linux\_semids\_pullup, 233
  - linux\_semids\_pushdown, 234
  - linux\_semop, 234
  - linux\_shmat, 234
  - linux\_shmctl, 234
  - linux\_shmdt, 235
  - linux\_shmget, 235
  - linux\_shmid\_pullup, 235

- linux\_shmid\_pushdown, 235
- linux\_shminfo\_pushdown, 235
- linux\_to\_bsd\_ipc\_perm, 236
- linux\_to\_bsd\_msqid\_ds, 236
- linux\_to\_bsd\_semid\_ds, 236
- linux\_to\_bsd\_shmid\_ds, 236
- MODULE\_DEPEND, 237
- linux\_ipc.h
  - LINUX\_IPC\_64, 238
  - LINUX\_IPC\_OLD, 238
- LINUX\_IPC\_64
  - linux\_ipc.h, 238
- LINUX\_IPC\_OLD
  - linux\_ipc.h, 238
- linux\_ipc\_perm\_to\_ipc64\_perm
  - linux\_ipc.c, 232
- LINUX\_ISIG
  - linux\_ioctl.h, 202
- LINUX\_ISOFS\_SUPER\_MAGIC
  - linux\_stats.c, 287
- LINUX\_ISTRIP
  - linux\_ioctl.h, 202
- LINUX\_IUCLC
  - linux\_ioctl.h, 202
- LINUX\_IXANY
  - linux\_ioctl.h, 203
- LINUX\_IXOFF
  - linux\_ioctl.h, 203
- LINUX\_IXON
  - linux\_ioctl.h, 203
- LINUX\_KBD\_MEDIUMRAW
  - linux\_ioctl.h, 203
- LINUX\_KBD\_RAW
  - linux\_ioctl.h, 203
- LINUX\_KBD\_XLATE
  - linux\_ioctl.h, 203
- LINUX\_KD\_GRAPHICS
  - linux\_ioctl.h, 203
- LINUX\_KD\_TEXT
  - linux\_ioctl.h, 203
- LINUX\_KD\_TEXT0
  - linux\_ioctl.h, 203
- LINUX\_KD\_TEXT1
  - linux\_ioctl.h, 203
- LINUX\_KDGETLED
  - linux\_ioctl.h, 204
- LINUX\_KDGETMODE
  - linux\_ioctl.h, 204
- LINUX\_KDGKBMODE
  - linux\_ioctl.h, 204
- LINUX\_KDMKTONE
  - linux\_ioctl.h, 204
- LINUX\_KDSETLED
  - linux\_ioctl.h, 204
- LINUX\_KDSETMODE
  - linux\_ioctl.h, 204
- LINUX\_KDSKBMODE
  - linux\_ioctl.h, 204
- LINUX\_KERN\_OSRELEASE
  - linux\_sysctl.c, 294
- LINUX\_KERN\_OSREV
  - linux\_sysctl.c, 294
- LINUX\_KERN\_OSTYPE
  - linux\_sysctl.c, 294
- LINUX\_KERN\_VERSION
  - linux\_sysctl.c, 294
- linux\_kill
  - linux\_signal.c, 263
- LINUX\_KIOCSOUND
  - linux\_ioctl.h, 204
- linux\_lchown
  - linux\_file.c, 145
- linux\_lchown16
  - linux\_uid16.c, 302
- LINUX\_LED\_CAP
  - linux\_ioctl.h, 204
- LINUX\_LED\_NUM
  - linux\_ioctl.h, 205
- LINUX\_LED\_SCR
  - linux\_ioctl.h, 205
- linux\_link
  - linux\_file.c, 145
- linux\_listen
  - linux\_socket.c, 275
- linux\_listen\_args, 95
  - backlog, 95
  - s, 95
- linux\_llseek
  - linux\_file.c, 145
- linux\_lseek
  - linux\_file.c, 145
- linux\_lstat
  - linux\_stats.c, 289
- linux\_major
  - linux\_device\_handler, 83
- linux\_major\_starting
  - linux\_util.c, 306
- LINUX\_MAX\_COMM\_LEN
  - linux\_misc.h, 259
- linux\_mib.c
  - \_\_FBSDID, 240
  - linux\_get\_osname, 240
  - linux\_get\_osrelease, 240
  - linux\_get\_oss\_version, 240
  - linux\_get\_prison, 241
  - linux\_osname, 243
  - linux\_osrelease, 243
  - linux\_oss\_version, 243

- linux\_set\_osname, 241
- linux\_set\_osrelease, 241
- linux\_set\_oss\_version, 241
- linux\_sysctl\_osname, 241
- linux\_sysctl\_osrelease, 242
- linux\_sysctl\_oss\_version, 242
- linux\_use26, 242
- linux\_use\_linux26, 243
- MTX\_SYSINIT, 242
- osname\_lock, 243
- SYSCTL\_NODE, 243
- SYSCTL\_PROC, 243
- linux\_mib.h
  - linux\_get\_osname, 244
  - linux\_get\_osrelease, 244
  - linux\_get\_oss\_version, 244
  - linux\_set\_osname, 244
  - linux\_set\_osrelease, 245
  - linux\_set\_oss\_version, 245
  - linux\_use26, 245
- linux\_minor
  - linux\_device\_handler, 83
- linux\_misc.c
  - \_\_FBSDID, 253
  - \_\_WCLONE, 250
  - B2L\_ITIMERVERVAL, 250
  - BSD\_TO\_LINUX\_SIGNAL, 250
  - CLK\_TCK, 251
  - CONVTCK, 251
  - linux\_alarm, 253
  - linux\_brk, 253
  - linux\_exit\_group, 253
  - linux\_getgid, 253
  - linux\_getgroups, 253
  - linux\_getitimer, 253
  - linux\_getpid, 253
  - linux\_getppid, 254
  - linux\_getpriority, 254
  - linux\_getrlimit, 254
  - linux\_getsid, 254
  - linux\_gettid, 254
  - linux\_getuid, 254
  - linux\_mknod, 254
  - linux\_mremap, 254
  - LINUX\_MS\_ASYNC, 251
  - LINUX\_MS\_INVALIDATE, 251
  - LINUX\_MS\_SYNC, 251
  - linux\_msync, 255
  - linux\_newuname, 255
  - linux\_nice, 255
  - linux\_nosys, 255
  - linux\_old\_getrlimit, 255
  - linux\_personality, 255
  - linux\_prctl, 255
  - linux\_reboot, 256
  - linux\_sched\_get\_priority\_max, 256
  - linux\_sched\_get\_priority\_min, 256
  - linux\_sched\_getscheduler, 256
  - linux\_sched\_setscheduler, 256
  - linux\_select, 256
  - linux\_setgroups, 256
  - linux\_sethostname, 256
  - linux\_setitimer, 256
  - linux\_setrlimit, 257
  - linux\_sysinfo, 257
  - LINUX\_SYSINFO\_LOADS\_SCALE, 251
  - linux\_time, 257
  - linux\_times, 257
  - linux\_to\_bsd\_resource, 258
  - linux\_wait4, 257
  - linux\_waitpid, 257
  - REBOOT\_CAD\_OFF, 251
  - REBOOT\_CAD\_ON, 251
  - REBOOT\_HALT, 251
  - REBOOT\_MAGIC1, 252
  - REBOOT\_MAGIC2, 252
  - REBOOT\_MAGIC2A, 252
  - REBOOT\_MAGIC2B, 252
  - REBOOT\_POWEROFF, 252
  - REBOOT\_RESTART, 252
  - REBOOT\_RESTART2, 252
- linux\_misc.h
  - LINUX\_MAX\_COMM\_LEN, 259
  - LINUX\_PR\_GET\_NAME, 259
  - LINUX\_PR\_GET\_PDEATHSIG, 259
  - LINUX\_PR\_SET\_NAME, 259
  - LINUX\_PR\_SET\_PDEATHSIG, 259
- linux\_mixer\_info, 96
  - fillers, 96
  - id, 96
  - modify\_counter, 96
  - name, 96
- linux\_mkdir
  - linux\_file.c, 146
- linux\_mknod
  - linux\_misc.c, 254
- linux\_mount
  - linux\_file.c, 146
- linux\_mremap
  - linux\_misc.c, 254
- LINUX\_MS\_ASYNC
  - linux\_misc.c, 251
- LINUX\_MS\_INVALIDATE
  - linux\_misc.c, 251
- LINUX\_MS\_SYNC
  - linux\_misc.c, 251
- LINUX\_MSDOS\_SUPER\_MAGIC
  - linux\_stats.c, 287

- linux\_msg
  - linux\_util.c, 305
  - linux\_util.h, 310
- LINUX\_MSG\_CONFIRM
  - linux\_socket.h, 281
- LINUX\_MSG\_CTRUNC
  - linux\_socket.h, 281
- LINUX\_MSG\_DONTRROUTE
  - linux\_socket.h, 281
- LINUX\_MSG\_DONTWAIT
  - linux\_socket.h, 281
- LINUX\_MSG\_EOR
  - linux\_socket.h, 281
- LINUX\_MSG\_ERRQUEUE
  - linux\_socket.h, 282
- LINUX\_MSG\_FIN
  - linux\_socket.h, 282
- LINUX\_MSG\_NOSIGNAL
  - linux\_socket.h, 282
- LINUX\_MSG\_OOB
  - linux\_socket.h, 282
- LINUX\_MSG\_PEEK
  - linux\_socket.h, 282
- LINUX\_MSG\_PROXY
  - linux\_socket.h, 282
- LINUX\_MSG\_RST
  - linux\_socket.h, 282
- LINUX\_MSG\_SYN
  - linux\_socket.h, 282
- LINUX\_MSG\_TRUNC
  - linux\_socket.h, 282
- LINUX\_MSG\_WAITALL
  - linux\_socket.h, 283
- linux\_msgctl
  - linux\_ipc.c, 232
- linux\_msgget
  - linux\_ipc.c, 232
- linux\_msgrcv
  - linux\_ipc.c, 232
- linux\_msgsnd
  - linux\_ipc.c, 232
- linux\_msqid\_pullup
  - linux\_ipc.c, 233
- linux\_msqid\_pushdown
  - linux\_ipc.c, 233
- linux\_msync
  - linux\_misc.c, 255
- LINUX\_N\_MOUSE
  - linux\_ioctl.h, 205
- LINUX\_N\_PPP
  - linux\_ioctl.h, 205
- LINUX\_N\_SLIP
  - linux\_ioctl.h, 205
- LINUX\_N\_TTY
  - linux\_ioctl.h, 205
- linux\_nanosleep
  - linux\_time.c, 298
- LINUX\_NCC
  - linux\_ioctl.h, 205
- LINUX\_NCCS
  - linux\_ioctl.h, 205
- LINUX\_NCP\_SUPER\_MAGIC
  - linux\_stats.c, 287
- linux\_newfstat
  - linux\_stats.c, 289
- linux\_newlstat
  - linux\_stats.c, 289
- linux\_newstat
  - linux\_stats.c, 289
- linux\_newuname
  - linux\_misc.c, 255
- LINUX\_NFS\_SUPER\_MAGIC
  - linux\_stats.c, 287
- linux\_nice
  - linux\_misc.c, 255
- LINUX\_NL0
  - linux\_ioctl.h, 205
- LINUX\_NL1
  - linux\_ioctl.h, 205
- LINUX\_NLDLY
  - linux\_ioctl.h, 206
- LINUX\_NOFLSH
  - linux\_ioctl.h, 206
- linux\_nosys
  - linux\_misc.c, 255
  - linux\_sysproto.h, 295
- LINUX\_NTFS\_SUPER\_MAGIC
  - linux\_stats.c, 287
- LINUX\_OCRNL
  - linux\_ioctl.h, 206
- LINUX\_OFDEL
  - linux\_ioctl.h, 206
- LINUX\_OFILL
  - linux\_ioctl.h, 206
- LINUX\_OLCUC
  - linux\_ioctl.h, 206
- linux\_old\_getrlimit
  - linux\_misc.c, 255
- linux\_old\_mixer\_info, 97
  - id, 97
  - name, 97
- linux\_oldumount
  - linux\_file.c, 146
- LINUX\_ONLCR
  - linux\_ioctl.h, 206
- LINUX\_ONLRET
  - linux\_ioctl.h, 206
- LINUX\_ONOCR

- linux\_ioctl.h, 206
- linux\_open
  - linux\_file.c, 146
- LINUX\_OPOST
  - linux\_ioctl.h, 206
- linux\_osname
  - linux\_mib.c, 243
- linux\_osrelease
  - linux\_mib.c, 243
- LINUX\_OSS\_GETVERSION
  - linux\_ioctl.h, 207
- linux\_oss\_version
  - linux\_mib.c, 243
- LINUX\_PARENB
  - linux\_ioctl.h, 207
- LINUX\_PARMRK
  - linux\_ioctl.h, 207
- LINUX\_PARODD
  - linux\_ioctl.h, 207
- LINUX\_PENDIN
  - linux\_ioctl.h, 207
- linux\_personality
  - linux\_misc.c, 255
- LINUX\_PORT\_16450
  - linux\_ioctl.h, 207
- LINUX\_PORT\_16550
  - linux\_ioctl.h, 207
- LINUX\_PORT\_16550A
  - linux\_ioctl.h, 207
- LINUX\_PORT\_16650
  - linux\_ioctl.h, 207
- LINUX\_PORT\_8250
  - linux\_ioctl.h, 208
- LINUX\_PORT\_CIRRUS
  - linux\_ioctl.h, 208
- LINUX\_PORT\_MAX
  - linux\_ioctl.h, 208
- LINUX\_PORT\_UNKNOWN
  - linux\_ioctl.h, 208
- LINUX\_POSIX\_VDISABLE
  - linux\_ioctl.h, 208
- LINUX\_PR\_GET\_NAME
  - linux\_misc.h, 259
- LINUX\_PR\_GET\_PDEATHSIG
  - linux\_misc.h, 259
- LINUX\_PR\_SET\_NAME
  - linux\_misc.h, 259
- LINUX\_PR\_SET\_PDEATHSIG
  - linux\_misc.h, 259
- linux\_prctl
  - linux\_misc.c, 255
- linux\_pread
  - linux\_file.c, 146
- linux\_prison, 98
- pr\_osname, 98
- pr\_osrelease, 98
- pr\_oss\_version, 98
- pr\_use\_linux26, 98
- linux\_proc\_exec
  - linux\_emul.c, 135
  - linux\_emul.h, 139
- linux\_proc\_exit
  - linux\_emul.c, 135
  - linux\_emul.h, 139
- linux\_proc\_init
  - linux\_emul.c, 135
  - linux\_emul.h, 139
- LINUX\_PROC\_SUPER\_MAGIC
  - linux\_stats.c, 287
- linux\_pwrite
  - linux\_file.c, 146
- linux\_readdir
  - linux\_file.c, 146
- linux\_readlink
  - linux\_file.c, 147
- linux\_reboot
  - linux\_misc.c, 256
- LINUX\_RECLEN
  - linux\_file.c, 143
- linux\_recv
  - linux\_socket.c, 275
- linux\_recv\_args, 99
  - flags, 99
  - len, 99
  - msg, 99
  - s, 99
- linux\_recvfrom
  - linux\_socket.c, 275
- linux\_recvfrom\_args, 100
  - buf, 100
  - flags, 100
  - from, 100
  - fromlen, 100
  - len, 100
  - s, 100
- linux\_recvmsg
  - linux\_socket.c, 275
- linux\_recvmsg\_args, 101
  - flags, 101
  - msg, 101
  - s, 101
- linux\_rename
  - linux\_file.c, 147
- linux\_rmdir
  - linux\_file.c, 147
- linux\_rt\_sigaction
  - linux\_signal.c, 263
- linux\_rt\_sigpending

- linux\_signal.c, 263
- linux\_rt\_sigprocmask
  - linux\_signal.c, 263
- linux\_rt\_sigtimedwait
  - linux\_signal.c, 264
- linux\_sa\_put
  - linux\_socket.c, 276
- linux\_sched\_get\_priority\_max
  - linux\_misc.c, 256
- linux\_sched\_get\_priority\_min
  - linux\_misc.c, 256
- linux\_sched\_getscheduler
  - linux\_misc.c, 256
- linux\_sched\_setscheduler
  - linux\_misc.c, 256
- linux\_schedtail
  - linux\_emul.c, 136
  - linux\_emul.h, 139
- linux\_select
  - linux\_misc.c, 256
- linux\_semctl
  - linux\_ipc.c, 233
- linux\_semget
  - linux\_ipc.c, 233
- linux\_semid\_pullup
  - linux\_ipc.c, 233
- linux\_semid\_pushdown
  - linux\_ipc.c, 234
- linux\_semop
  - linux\_ipc.c, 234
- linux\_send
  - linux\_socket.c, 276
- linux\_send\_args, 102
  - flags, 102
  - len, 102
  - msg, 102
  - s, 102
- linux\_sendit
  - linux\_socket.c, 276
- linux\_sendmsg
  - linux\_socket.c, 276
- linux\_sendmsg\_args, 103
  - flags, 103
  - msg, 103
  - s, 103
- linux\_sendto
  - linux\_socket.c, 277
- linux\_sendto\_args, 104
  - flags, 104
  - len, 104
  - msg, 104
  - s, 104
  - to, 104
  - tolen, 104
- linux\_sendto\_hdrincl
  - linux\_socket.c, 277
- linux\_serial\_struct, 106
  - baud\_base, 106
  - close\_delay, 106
  - closing\_wait, 106
  - closing\_wait2, 106
  - custom\_divisor, 106
  - flags, 106
  - hub6, 107
  - irq, 107
  - line, 107
  - port, 107
  - reserved, 107
  - reserved\_char, 107
  - type, 107
  - xmit\_fifo\_size, 107
- linux\_set\_osname
  - linux\_mib.c, 241
  - linux\_mib.h, 244
- linux\_set\_osrelease
  - linux\_mib.c, 241
  - linux\_mib.h, 245
- linux\_set\_oss\_version
  - linux\_mib.c, 241
  - linux\_mib.h, 245
- linux\_set\_tid\_address
  - linux\_emul.c, 136
- linux\_setgid16
  - linux\_uid16.c, 302
- linux\_setgroups
  - linux\_misc.c, 256
- linux\_setgroups16
  - linux\_uid16.c, 302
- linux\_sethostname
  - linux\_misc.c, 256
- linux\_setitimer
  - linux\_misc.c, 256
- linux\_setregid16
  - linux\_uid16.c, 302
- linux\_setresgid16
  - linux\_uid16.c, 302
- linux\_setresuid16
  - linux\_uid16.c, 302
- linux\_setreuid16
  - linux\_uid16.c, 302
- linux\_setrlimit
  - linux\_misc.c, 257
- linux\_setsockopt
  - linux\_socket.c, 277
- linux\_setsockopt\_args, 108
  - level, 108
  - optlen, 108
  - optname, 108

- optval, 108
- s, 108
- linux\_setuid16
  - linux\_uid16.c, 302
- linux\_sgetmask
  - linux\_signal.c, 264
- linux\_shmat
  - linux\_ipc.c, 234
- linux\_shmctl
  - linux\_ipc.c, 234
- linux\_shmdt
  - linux\_ipc.c, 235
- linux\_shmget
  - linux\_ipc.c, 235
- linux\_shmid\_pullup
  - linux\_ipc.c, 235
- linux\_shmid\_pushdown
  - linux\_ipc.c, 235
- linux\_shminfo\_pushdown
  - linux\_ipc.c, 235
- linux\_shutdown
  - linux\_socket.c, 278
- linux\_shutdown\_args, 109
  - how, 109
  - s, 109
- LINUX\_SIG\_VALID
  - linux\_signal.h, 267
- linux\_signal
  - linux\_signal.c, 264
- linux\_signal.c
  - \_\_FBSDID, 262
  - bsd\_to\_linux\_sigaction, 262
  - bsd\_to\_linux\_sigset, 262
  - linux\_do\_sigaction, 262
  - linux\_do\_sigprocmask, 262
  - linux\_kill, 263
  - linux\_rt\_sigaction, 263
  - linux\_rt\_sigpending, 263
  - linux\_rt\_sigprocmask, 263
  - linux\_rt\_sigtimedwait, 264
  - linux\_sgetmask, 264
  - linux\_signal, 264
  - linux\_sigpending, 264
  - linux\_sigprocmask, 264
  - linux\_ssetmask, 265
  - linux\_tgkill, 265
  - linux\_tkill, 265
  - linux\_to\_bsd\_sigaction, 265
  - linux\_to\_bsd\_sigset, 266
- linux\_signal.h
  - bsd\_to\_linux\_sigset, 267
  - linux\_do\_sigaction, 267
  - LINUX\_SIG\_VALID, 267
  - linux\_to\_bsd\_sigset, 267
- linux\_sigpending
  - linux\_signal.c, 264
- linux\_sigprocmask
  - linux\_signal.c, 264
- LINUX\_SIOCADDMULTI
  - linux\_ioctl.h, 208
- LINUX\_SIOCATMARK
  - linux\_ioctl.h, 208
- LINUX\_SIOCDELMULTI
  - linux\_ioctl.h, 208
- LINUX\_SIOCDEVPRIVATE
  - linux\_ioctl.h, 208
- LINUX\_SIOCGIFADDR
  - linux\_ioctl.h, 208
- LINUX\_SIOCGIFBRDADDR
  - linux\_ioctl.h, 209
- LINUX\_SIOCGIFCONF
  - linux\_ioctl.h, 209
- LINUX\_SIOCGIFDSTADDR
  - linux\_ioctl.h, 209
- LINUX\_SIOCGIFFLAGS
  - linux\_ioctl.h, 209
- LINUX\_SIOCGIFHWADDR
  - linux\_ioctl.h, 209
- LINUX\_SIOCGIFMTU
  - linux\_ioctl.h, 209
- LINUX\_SIOCGIFNETMASK
  - linux\_ioctl.h, 209
- LINUX\_SIOCGPGRP
  - linux\_ioctl.h, 209
- LINUX\_SIOCGSTAMP
  - linux\_ioctl.h, 209
- LINUX\_SIOCSIFADDR
  - linux\_ioctl.h, 210
- LINUX\_SIOCSIFHWADDR
  - linux\_ioctl.h, 210
- LINUX\_SIOCSIFMTU
  - linux\_ioctl.h, 210
- LINUX\_SIOCSIFNAME
  - linux\_ioctl.h, 210
- LINUX\_SIOCSIFNETMASK
  - linux\_ioctl.h, 210
- LINUX\_SIOCSPGRP
  - linux\_ioctl.h, 210
- LINUX\_SNDCTL\_DSP\_GETBLKSIZE
  - linux\_ioctl.h, 210
- LINUX\_SNDCTL\_DSP\_GETCAPS
  - linux\_ioctl.h, 210
- LINUX\_SNDCTL\_DSP\_GETFMTS
  - linux\_ioctl.h, 210
- LINUX\_SNDCTL\_DSP\_GETIPTR
  - linux\_ioctl.h, 211
- LINUX\_SNDCTL\_DSP\_GETISPACE
  - linux\_ioctl.h, 211



- LINUX\_SNDCTL\_DSP\_GETODELAY  
  [linux\\_ioctl.h, 211](#)
- LINUX\_SNDCTL\_DSP\_GETOPTR  
  [linux\\_ioctl.h, 211](#)
- LINUX\_SNDCTL\_DSP\_GETOSPACE  
  [linux\\_ioctl.h, 211](#)
- LINUX\_SNDCTL\_DSP\_GETTRIGGER  
  [linux\\_ioctl.h, 211](#)
- LINUX\_SNDCTL\_DSP\_NONBLOCK  
  [linux\\_ioctl.h, 211](#)
- LINUX\_SNDCTL\_DSP\_POST  
  [linux\\_ioctl.h, 211](#)
- LINUX\_SNDCTL\_DSP\_RESET  
  [linux\\_ioctl.h, 211](#)
- LINUX\_SNDCTL\_DSP\_SETBLKSIZE  
  [linux\\_ioctl.h, 212](#)
- LINUX\_SNDCTL\_DSP\_SETDUPLEX  
  [linux\\_ioctl.h, 212](#)
- LINUX\_SNDCTL\_DSP\_SETFMT  
  [linux\\_ioctl.h, 212](#)
- LINUX\_SNDCTL\_DSP\_SETFRAGMENT  
  [linux\\_ioctl.h, 212](#)
- LINUX\_SNDCTL\_DSP\_SETTRIGGER  
  [linux\\_ioctl.h, 212](#)
- LINUX\_SNDCTL\_DSP\_SPEED  
  [linux\\_ioctl.h, 212](#)
- LINUX\_SNDCTL\_DSP\_STEREO  
  [linux\\_ioctl.h, 212](#)
- LINUX\_SNDCTL\_DSP\_SUBDIVIDE  
  [linux\\_ioctl.h, 212](#)
- LINUX\_SNDCTL\_DSP\_SYNC  
  [linux\\_ioctl.h, 213](#)
- LINUX\_SNDCTL\_FM\_LOAD\_INSTR  
  [linux\\_ioctl.h, 213](#)
- LINUX\_SNDCTL\_MIDI\_INFO  
  [linux\\_ioctl.h, 213](#)
- LINUX\_SNDCTL\_SEQ\_CTRLRATE  
  [linux\\_ioctl.h, 213](#)
- LINUX\_SNDCTL\_SEQ\_GETINCOUNT  
  [linux\\_ioctl.h, 213](#)
- LINUX\_SNDCTL\_SEQ\_GETOUTCOUNT  
  [linux\\_ioctl.h, 213](#)
- LINUX\_SNDCTL\_SEQ\_NRMIDIS  
  [linux\\_ioctl.h, 213](#)
- LINUX\_SNDCTL\_SEQ\_NRSYNTHS  
  [linux\\_ioctl.h, 213](#)
- LINUX\_SNDCTL\_SEQ\_PERCMODE  
  [linux\\_ioctl.h, 213](#)
- LINUX\_SNDCTL\_SEQ\_RESET  
  [linux\\_ioctl.h, 214](#)
- LINUX\_SNDCTL\_SEQ\_RESETSAMPLES  
  [linux\\_ioctl.h, 214](#)
- LINUX\_SNDCTL\_SEQ\_SYNC  
  [linux\\_ioctl.h, 214](#)
- LINUX\_SNDCTL\_SEQ\_TESTMIDI  
  [linux\\_ioctl.h, 214](#)
- LINUX\_SNDCTL\_SEQ\_TRESHOLD  
  [linux\\_ioctl.h, 214](#)
- LINUX\_SNDCTL\_SYNTH\_INFO  
  [linux\\_ioctl.h, 214](#)
- LINUX\_SNDCTL\_SYNTH\_MEMAVL  
  [linux\\_ioctl.h, 214](#)
- linux\_socket  
  [linux\\_socket.c, 278](#)
- linux\_socket.c  
  [\\_\\_FBSDID, 272](#)  
  [bsd\\_to\\_linux\\_domain, 272](#)  
  [bsd\\_to\\_linux\\_sockaddr, 272](#)  
  [bsd\\_to\\_linux\\_sockopt\\_level, 272](#)  
  [do\\_sa\\_get, 272](#)  
  [linux\\_accept, 272](#)  
  [linux\\_bind, 273](#)  
  [linux\\_check\\_hdrincl, 273](#)  
  [linux\\_connect, 273](#)  
  [linux\\_getpeername, 273](#)  
  [linux\\_getsockaddr, 274](#)  
  [linux\\_getsockname, 274](#)  
  [linux\\_getsockopt, 274](#)  
  [linux\\_ip\\_copysize, 272](#)  
  [linux\\_listen, 275](#)  
  [linux\\_recv, 275](#)  
  [linux\\_recvfrom, 275](#)  
  [linux\\_recvmsg, 275](#)  
  [linux\\_sa\\_put, 276](#)  
  [linux\\_send, 276](#)  
  [linux\\_sendit, 276](#)  
  [linux\\_sendmsg, 276](#)  
  [linux\\_sendto, 277](#)  
  [linux\\_sendto\\_hdrincl, 277](#)  
  [linux\\_setsockopt, 277](#)  
  [linux\\_shutdown, 278](#)  
  [linux\\_socket, 278](#)  
  [linux\\_socketcall, 278](#)  
  [linux\\_socketpair, 279](#)  
  [linux\\_to\\_bsd\\_domain, 279](#)  
  [linux\\_to\\_bsd\\_ip\\_sockopt, 279](#)  
  [linux\\_to\\_bsd\\_msg\\_flags, 280](#)  
  [linux\\_to\\_bsd\\_so\\_sockopt, 280](#)  
  [linux\\_to\\_bsd\\_sockaddr, 280](#)  
  [linux\\_to\\_bsd\\_sockopt\\_level, 280](#)
- linux\_socket.h  
  [LINUX\\_MSG\\_CONFIRM, 281](#)  
  [LINUX\\_MSG\\_CTRUNC, 281](#)  
  [LINUX\\_MSG\\_DONTROUTE, 281](#)  
  [LINUX\\_MSG\\_DONTWAIT, 281](#)  
  [LINUX\\_MSG\\_EOR, 281](#)  
  [LINUX\\_MSG\\_ERRQUEUE, 282](#)  
  [LINUX\\_MSG\\_FIN, 282](#)

- LINUX\_MSG\_NOSIGNAL, [282](#)
- LINUX\_MSG\_OOB, [282](#)
- LINUX\_MSG\_PEEK, [282](#)
- LINUX\_MSG\_PROXY, [282](#)
- LINUX\_MSG\_RST, [282](#)
- LINUX\_MSG\_SYN, [282](#)
- LINUX\_MSG\_TRUNC, [282](#)
- LINUX\_MSG\_WAITALL, [283](#)
- linux\_socket\_args, [110](#)
  - domain, [110](#)
  - protocol, [110](#)
  - type, [110](#)
- linux\_socketcall
  - linux\_socket.c, [278](#)
- linux\_socketpair
  - linux\_socket.c, [279](#)
- linux\_socketpair\_args, [111](#)
  - domain, [111](#)
  - protocol, [111](#)
  - rsv, [111](#)
  - type, [111](#)
- LINUX\_SOUND\_MIXER\_INFO
  - linux\_ioctl.h, [214](#)
- LINUX\_SOUND\_MIXER\_READ\_DEVMASK
  - linux\_ioctl.h, [214](#)
- LINUX\_SOUND\_MIXER\_READ\_REC\_MASK
  - linux\_ioctl.h, [215](#)
- LINUX\_SOUND\_MIXER\_READ\_-STEREODEVS
  - linux\_ioctl.h, [215](#)
- LINUX\_SOUND\_MIXER\_WRITE\_ALTPCM
  - linux\_ioctl.h, [215](#)
- LINUX\_SOUND\_MIXER\_WRITE\_BASS
  - linux\_ioctl.h, [215](#)
- LINUX\_SOUND\_MIXER\_WRITE\_CD
  - linux\_ioctl.h, [215](#)
- LINUX\_SOUND\_MIXER\_WRITE\_IGAIN
  - linux\_ioctl.h, [215](#)
- LINUX\_SOUND\_MIXER\_WRITE\_IMIX
  - linux\_ioctl.h, [215](#)
- LINUX\_SOUND\_MIXER\_WRITE\_LINE
  - linux\_ioctl.h, [215](#)
- LINUX\_SOUND\_MIXER\_WRITE\_LINE1
  - linux\_ioctl.h, [215](#)
- LINUX\_SOUND\_MIXER\_WRITE\_LINE2
  - linux\_ioctl.h, [216](#)
- LINUX\_SOUND\_MIXER\_WRITE\_LINE3
  - linux\_ioctl.h, [216](#)
- LINUX\_SOUND\_MIXER\_WRITE\_MIC
  - linux\_ioctl.h, [216](#)
- LINUX\_SOUND\_MIXER\_WRITE\_OGAIN
  - linux\_ioctl.h, [216](#)
- LINUX\_SOUND\_MIXER\_WRITE\_PCM
  - linux\_ioctl.h, [216](#)
- LINUX\_SOUND\_MIXER\_WRITE\_RECLEV
  - linux\_ioctl.h, [216](#)
- LINUX\_SOUND\_MIXER\_WRITE\_REC\_SRC
  - linux\_ioctl.h, [216](#)
- LINUX\_SOUND\_MIXER\_WRITE\_SPEAKER
  - linux\_ioctl.h, [216](#)
- LINUX\_SOUND\_MIXER\_WRITE\_SYNTH
  - linux\_ioctl.h, [216](#)
- LINUX\_SOUND\_MIXER\_WRITE\_TREBLE
  - linux\_ioctl.h, [217](#)
- LINUX\_SOUND\_MIXER\_WRITE\_VOLUME
  - linux\_ioctl.h, [217](#)
- LINUX\_SOUND\_PCM\_WRITE\_CHANNELS
  - linux\_ioctl.h, [217](#)
- LINUX\_SOUND\_PCM\_WRITE\_FILTER
  - linux\_ioctl.h, [217](#)
- linux\_ssetmask
  - linux\_signal.c, [265](#)
- linux\_stat
  - linux\_stats.c, [290](#)
- linux\_statfs
  - linux\_stats.c, [290](#)
- linux\_statfs64
  - linux\_stats.c, [290](#)
- linux\_stats.c
  - \_\_FBSDID, [288](#)
  - bsd\_to\_linux\_ftype, [288](#)
  - bsd\_to\_linux\_statfs, [288](#)
  - bsd\_to\_linux\_statfs64, [288](#)
  - LINUX\_CODA\_SUPER\_MAGIC, [286](#)
  - LINUX\_DEVFS\_SUPER\_MAGIC, [286](#)
  - LINUX\_EXT2\_SUPER\_MAGIC, [286](#)
  - linux\_fstatfs, [288](#)
  - LINUX\_HPFS\_SUPER\_MAGIC, [286](#)
  - LINUX\_ISOFS\_SUPER\_MAGIC, [287](#)
  - linux\_lstat, [289](#)
  - LINUX\_MSDOS\_SUPER\_MAGIC, [287](#)
  - LINUX\_NCP\_SUPER\_MAGIC, [287](#)
  - linux\_newfstat, [289](#)
  - linux\_newlstat, [289](#)
  - linux\_newstat, [289](#)
  - LINUX\_NFS\_SUPER\_MAGIC, [287](#)
  - LINUX\_NTFS\_SUPER\_MAGIC, [287](#)
  - LINUX\_PROC\_SUPER\_MAGIC, [287](#)
  - linux\_stat, [290](#)
  - linux\_statfs, [290](#)
  - linux\_statfs64, [290](#)
  - LINUX\_UFS\_SUPER\_MAGIC, [287](#)
  - linux\_ustat, [290](#)
  - newstat\_copyout, [290](#)
  - stat\_copyout, [291](#)
  - translate\_fd\_major\_minor, [291](#)
  - translate\_path\_major\_minor, [291](#)
- linux\_symlink

- linux\_file.c, 147
  - linux\_sysctl
    - linux\_sysctl.c, 294
  - linux\_sysctl.c
    - \_\_FBSDID, 294
    - handle\_string, 294
    - LINUX\_CTL\_BUS, 293
    - LINUX\_CTL\_DEBUG, 293
    - LINUX\_CTL\_DEV, 293
    - LINUX\_CTL\_FS, 293
    - LINUX\_CTL\_KERN, 293
    - LINUX\_CTL\_NET, 293
    - LINUX\_CTL\_PROC, 293
    - LINUX\_CTL\_VM, 294
    - LINUX\_KERN\_OSRELEASE, 294
    - LINUX\_KERN\_OSREV, 294
    - LINUX\_KERN\_OSTYPE, 294
    - LINUX\_KERN\_VERSION, 294
    - linux\_sysctl, 294
  - linux\_sysctl\_osname
    - linux\_mib.c, 241
  - linux\_sysctl\_osrelease
    - linux\_mib.c, 242
  - linux\_sysctl\_oss\_version
    - linux\_mib.c, 242
  - linux\_sysinfo
    - linux\_misc.c, 257
  - LINUX\_SYSINFO\_LOADS\_SCALE
    - linux\_misc.c, 251
  - linux\_sysproto.h
    - linux\_nosys, 295
  - LINUX\_TAB0
    - linux\_ioctl.h, 217
  - LINUX\_TAB1
    - linux\_ioctl.h, 217
  - LINUX\_TAB2
    - linux\_ioctl.h, 217
  - LINUX\_TAB3
    - linux\_ioctl.h, 217
  - LINUX\_TABDLY
    - linux\_ioctl.h, 217
  - LINUX\_TCFLSH
    - linux\_ioctl.h, 217
  - LINUX\_TCGETA
    - linux\_ioctl.h, 218
  - LINUX\_TCGETS
    - linux\_ioctl.h, 218
  - LINUX\_TCIFLUSH
    - linux\_ioctl.h, 218
  - LINUX\_TCIOFF
    - linux\_ioctl.h, 218
  - LINUX\_TCIOFLUSH
    - linux\_ioctl.h, 218
  - LINUX\_TCION
    - linux\_ioctl.h, 218
  - LINUX\_TCOFLUSH
    - linux\_ioctl.h, 218
  - LINUX\_TCOOFF
    - linux\_ioctl.h, 218
  - LINUX\_TCOON
    - linux\_ioctl.h, 218
  - LINUX\_TCSBRK
    - linux\_ioctl.h, 219
  - LINUX\_TCSBRKP
    - linux\_ioctl.h, 219
  - LINUX\_TCSETA
    - linux\_ioctl.h, 219
  - LINUX\_TCSETAF
    - linux\_ioctl.h, 219
  - LINUX\_TCSETAW
    - linux\_ioctl.h, 219
  - LINUX\_TCSETS
    - linux\_ioctl.h, 219
  - LINUX\_TCSETSFSF
    - linux\_ioctl.h, 219
  - LINUX\_TCSETSW
    - linux\_ioctl.h, 219
  - LINUX\_TCXONC
    - linux\_ioctl.h, 219
- linux\_termio, 112
  - c\_cc, 112
  - c\_cflag, 112
  - c\_iflag, 112
  - c\_lflag, 112
  - c\_line, 112
  - c\_oflag, 112
- linux\_termios, 114
  - c\_cc, 114
  - c\_cflag, 114
  - c\_iflag, 114
  - c\_lflag, 114
  - c\_line, 114
  - c\_oflag, 114
- linux\_tgkill
  - linux\_signal.c, 265
- linux\_time
  - linux\_misc.c, 257
- linux\_time.c
  - \_\_FBSDID, 297
  - linux\_clock\_getres, 297
  - linux\_clock\_gettime, 297
  - linux\_clock\_nanosleep, 297
  - linux\_clock\_settime, 298
  - linux\_nanosleep, 298
  - linux\_to\_native\_clockid, 298
  - linux\_to\_native\_timespec, 298
  - native\_to\_linux\_timespec, 298
- linux\_times

- linux\_misc.c, 257
- LINUX\_TIOCCBRK
  - linux\_ioctl.h, 220
- LINUX\_TIOCCONS
  - linux\_ioctl.h, 220
- LINUX\_TIOCEXCL
  - linux\_ioctl.h, 220
- LINUX\_TIOCGETD
  - linux\_ioctl.h, 220
- LINUX\_TIOCGLOCKTRMIO
  - linux\_ioctl.h, 220
- LINUX\_TIOCGPGRP
  - linux\_ioctl.h, 220
- LINUX\_TIOCGPTN
  - linux\_ioctl.h, 220
- LINUX\_TIOCGSERIAL
  - linux\_ioctl.h, 220
- LINUX\_TIOCGSOFTCAR
  - linux\_ioctl.h, 220
- LINUX\_TIOCGWINSZ
  - linux\_ioctl.h, 221
- LINUX\_TIOCINQ
  - linux\_ioctl.h, 221
- LINUX\_TIOCLINUX
  - linux\_ioctl.h, 221
- LINUX\_TIOCMBIC
  - linux\_ioctl.h, 221
- LINUX\_TIOCMBIS
  - linux\_ioctl.h, 221
- LINUX\_TIOCMGET
  - linux\_ioctl.h, 221
- LINUX\_TIOCMSET
  - linux\_ioctl.h, 221
- LINUX\_TIOCNOTTY
  - linux\_ioctl.h, 221
- LINUX\_TIOCNXCL
  - linux\_ioctl.h, 221
- LINUX\_TIOCOUTQ
  - linux\_ioctl.h, 222
- LINUX\_TIOCPKT
  - linux\_ioctl.h, 222
- LINUX\_TIOCSBRK
  - linux\_ioctl.h, 222
- LINUX\_TIOCSCTTY
  - linux\_ioctl.h, 222
- LINUX\_TIOCSERCONFIG
  - linux\_ioctl.h, 222
- LINUX\_TIOCSERGWILD
  - linux\_ioctl.h, 222
- LINUX\_TIOCSERSWILD
  - linux\_ioctl.h, 222
- LINUX\_TIOCSETD
  - linux\_ioctl.h, 222
- LINUX\_TIOCSLCKTRMIO
  - linux\_ioctl.h, 222
- LINUX\_TIOCSPPGRP
  - linux\_ioctl.h, 222
- LINUX\_TIOCSSERIAL
  - linux\_ioctl.h, 223
- LINUX\_TIOCSSOFTCAR
  - linux\_ioctl.h, 223
- LINUX\_TIOCSTI
  - linux\_ioctl.h, 223
- LINUX\_TIOCSWINSZ
  - linux\_ioctl.h, 223
- LINUX\_TIOCTTYGSTRUCT
  - linux\_ioctl.h, 223
- linux\_kill
  - linux\_signal.c, 265
- linux\_to\_bsd\_domain
  - linux\_socket.c, 279
- linux\_to\_bsd\_dvd\_authinfo
  - linux\_ioctl.c, 171
- linux\_to\_bsd\_dvd\_struct
  - linux\_ioctl.c, 171
- linux\_to\_bsd\_flock
  - linux\_file.c, 147
- linux\_to\_bsd\_ip\_sockopt
  - linux\_socket.c, 279
- linux\_to\_bsd\_ipc\_perm
  - linux\_ipc.c, 236
- linux\_to\_bsd\_msg\_flags
  - linux\_socket.c, 280
- linux\_to\_bsd\_msgqid\_ds
  - linux\_ipc.c, 236
- linux\_to\_bsd\_resource
  - linux\_misc.c, 258
- linux\_to\_bsd\_semid\_ds
  - linux\_ipc.c, 236
- linux\_to\_bsd\_shmid\_ds
  - linux\_ipc.c, 236
- linux\_to\_bsd\_sigaction
  - linux\_signal.c, 265
- linux\_to\_bsd\_sigset
  - linux\_signal.c, 266
  - linux\_signal.h, 267
- linux\_to\_bsd\_so\_sockopt
  - linux\_socket.c, 280
- linux\_to\_bsd\_sockaddr
  - linux\_socket.c, 280
- linux\_to\_bsd\_sockopt\_level
  - linux\_socket.c, 280
- linux\_to\_bsd\_speed
  - linux\_ioctl.c, 171
- linux\_to\_bsd\_termio
  - linux\_ioctl.c, 171
- linux\_to\_bsd\_termios
  - linux\_ioctl.c, 172

- linux\_to\_native\_clockid
  - linux\_time.c, 298
- linux\_to\_native\_timespec
  - linux\_time.c, 298
- LINUX\_TOSTOP
  - linux\_ioctl.h, 223
- linux\_truncate
  - linux\_file.c, 147
- LINUX\_UFS\_SUPER\_MAGIC
  - linux\_stats.c, 287
- linux\_uid16.c
  - \_\_FBSDDID, 301
  - CAST\_NOCHG, 301
  - DUMMY, 301
  - linux\_chown16, 301
  - linux\_getegid16, 301
  - linux\_geteuid16, 301
  - linux\_getgid16, 301
  - linux\_getgroups16, 301
  - linux\_getuid16, 301
  - linux\_lchown16, 302
  - linux\_setgid16, 302
  - linux\_setgroups16, 302
  - linux\_setregid16, 302
  - linux\_setresgid16, 302
  - linux\_setresuid16, 302
  - linux\_setreuid16, 302
  - linux\_setuid16, 302
- linux\_umount
  - linux\_file.c, 147
- linux\_unlink
  - linux\_file.c, 148
- linux\_use26
  - linux\_mib.c, 242
  - linux\_mib.h, 245
- linux\_use\_linux26
  - linux\_mib.c, 243
- linux\_ustat
  - linux\_stats.c, 290
- linux\_util.c
  - \_\_FBSDDID, 305
  - DATA\_SET, 305
  - linux\_device\_register\_handler, 305
  - linux\_device\_unregister\_handler, 305
  - linux\_driver\_get\_major\_minor, 305
  - linux\_driver\_get\_name\_dev, 305
  - linux\_emul\_convpath, 305
  - linux\_emul\_path, 306
  - linux\_free\_get\_char\_devices, 305
  - linux\_get\_char\_devices, 305
  - linux\_major\_starting, 306
  - linux\_msg, 305
  - TAILQ\_HEAD, 306
- linux\_util.h
  - DUMMY, 309
  - LCONVPATH, 309
  - LCONVPATHCREAT, 309
  - LCONVPATHEXIST, 309
  - LFREEPATH, 309
  - linux\_device\_register\_handler, 310
  - linux\_device\_unregister\_handler, 310
  - linux\_driver\_get\_major\_minor, 310
  - linux\_driver\_get\_name\_dev, 310
  - linux\_emul\_convpath, 310
  - linux\_emul\_path, 310
  - linux\_free\_get\_char\_devices, 310
  - linux\_get\_char\_devices, 310
  - linux\_msg, 310
- LINUX\_VDISCARD
  - linux\_ioctl.h, 223
- LINUX\_VEOF
  - linux\_ioctl.h, 223
- LINUX\_VEOL
  - linux\_ioctl.h, 223
- LINUX\_VEOL2
  - linux\_ioctl.h, 224
- LINUX\_VERASE
  - linux\_ioctl.h, 224
- LINUX\_VFAT\_READDIR\_BOTH
  - linux\_ioctl.h, 224
- LINUX\_VINTR
  - linux\_ioctl.h, 224
- LINUX\_VKILL
  - linux\_ioctl.h, 224
- LINUX\_VLNEXT
  - linux\_ioctl.h, 224
- LINUX\_VMIN
  - linux\_ioctl.h, 224
- LINUX\_VQUIT
  - linux\_ioctl.h, 224
- LINUX\_VREPRINT
  - linux\_ioctl.h, 224
- LINUX\_VSTART
  - linux\_ioctl.h, 225
- LINUX\_VSTOP
  - linux\_ioctl.h, 225
- LINUX\_VSUSP
  - linux\_ioctl.h, 225
- LINUX\_VSWTC
  - linux\_ioctl.h, 225
- LINUX\_VT0
  - linux\_ioctl.h, 225
- LINUX\_VT1
  - linux\_ioctl.h, 225
- LINUX\_VT\_ACTIVATE
  - linux\_ioctl.h, 225
- LINUX\_VT\_GETMODE
  - linux\_ioctl.h, 225

- LINUX\_VT\_GETSTATE
  - linux\_ioctl.h, 225
- LINUX\_VT\_OPENQRY
  - linux\_ioctl.h, 226
- LINUX\_VT\_RELDISP
  - linux\_ioctl.h, 226
- LINUX\_VT\_SETMODE
  - linux\_ioctl.h, 226
- LINUX\_VT\_WAITACTIVE
  - linux\_ioctl.h, 226
- LINUX\_VTDLY
  - linux\_ioctl.h, 226
- LINUX\_VTIME
  - linux\_ioctl.h, 226
- LINUX\_VWERASE
  - linux\_ioctl.h, 226
- linux\_wait4
  - linux\_misc.c, 257
- linux\_waitpid
  - linux\_misc.c, 257
- linux\_winsize, 116
  - ws\_col, 116
  - ws\_row, 116
  - ws\_xpixel, 116
  - ws\_ypixel, 116
- LINUX\_XCASE
  - linux\_ioctl.h, 226
- LINUX\_XTABS
  - linux\_ioctl.h, 226
- LIST\_ENTRY
  - linux\_emuldata, 85
- LIST\_HEAD
  - linux\_emuldata\_shared, 87
  - linux\_futex.c, 151
- loads
  - l\_sysinfo, 64
- lrpcs
  - l\_dvd\_authinfo, 22
- lsa
  - l\_dvd\_authinfo, 22
- lsasf
  - l\_dvd\_authinfo, 22
- lsc
  - l\_dvd\_authinfo, 22
- lsk
  - l\_dvd\_authinfo, 22
- lstk
  - l\_dvd\_authinfo, 22
- manufact
  - l\_dvd\_struct, 39
- mem\_unit
  - l\_sysinfo, 64
- min\_rate
  - l\_dvd\_layer, 29
- minute
  - linux\_cdrom\_addr, 75
- mode
  - l\_ipc\_perm, 42
- modify\_counter
  - linux\_mixer\_info, 96
- MODULE\_DEPEND
  - linux\_aio.c, 129
  - linux\_ipc.c, 237
- msf
  - linux\_cdrom\_addr, 75
- msg
  - linux\_recv\_args, 99
  - linux\_recvmsg\_args, 101
  - linux\_send\_args, 102
  - linux\_sendmsg\_args, 103
  - linux\_sendto\_args, 104
- msg\_cbytes
  - l\_msgqid\_ds, 47
- msg\_ctime
  - l\_msgqid\_ds, 47
- msg\_first
  - l\_msgqid\_ds, 47
- msg\_last
  - l\_msgqid\_ds, 47
- msg\_lbytes
  - l\_msgqid\_ds, 48
- msg\_lqbytes
  - l\_msgqid\_ds, 48
- msg\_lrpqid
  - l\_msgqid\_ds, 48
- msg\_lspid
  - l\_msgqid\_ds, 48
- msg\_perm
  - l\_msgqid\_ds, 48
- msg\_qbytes
  - l\_msgqid\_ds, 48
- msg\_qnum
  - l\_msgqid\_ds, 48
- msg\_rtime
  - l\_msgqid\_ds, 48
- msg\_stime
  - l\_msgqid\_ds, 48
- msgmap
  - l\_msginfo, 45
- msgmax
  - l\_msginfo, 45
- msgmnb
  - l\_msginfo, 45
- msgmni
  - l\_msginfo, 45
- msgpool
  - l\_msginfo, 45

- msgseg
  - l\_msginfo, 45
- msgssz
  - l\_msginfo, 46
- msgtql
  - l\_msginfo, 46
- MTX\_SYSINIT
  - linux\_mib.c, 242
- name
  - linux\_bind\_args, 74
  - linux\_connect\_args, 82
  - linux\_mixer\_info, 96
  - linux\_old\_mixer\_info, 97
- namelen
  - linux\_accept\_args, 68
  - linux\_bind\_args, 74
  - linux\_connect\_args, 82
  - linux\_getpeername\_args, 88
  - linux\_getsockname\_args, 89
- native\_to\_linux\_timespec
  - linux\_time.c, 298
- newstat\_copyout
  - linux\_stats.c, 290
- nframes
  - l\_cdrom\_read\_audio, 18
- nlayers
  - l\_dvd\_layer, 29
- notreviewed.dox, 119
- obj
  - linux\_io\_event, 92
- optlen
  - linux\_getsockopt\_args, 90
  - linux\_setsockopt\_args, 108
- optname
  - linux\_getsockopt\_args, 90
  - linux\_setsockopt\_args, 108
- optval
  - linux\_getsockopt\_args, 90
  - linux\_setsockopt\_args, 108
- osname\_lock
  - linux\_mib.c, 243
- pads
  - l\_sysinfo, 64
- pdeath\_signal
  - linux\_emuldata, 85
- pdrc
  - l\_dvd\_host\_send\_rpcstate, 27
- physical
  - l\_dvd\_struct, 39
- pid
  - linux\_emuldata, 86
- port
  - linux\_serial\_struct, 107
- pr\_osname
  - linux\_prison, 98
- pr\_osrelease
  - linux\_prison, 98
- pr\_oss\_version
  - linux\_prison, 98
- pr\_use\_linux26
  - linux\_prison, 98
- PREPARE\_DUMMY\_SYSCALL\_BACKUP
  - linux\_aio.c, 126
- private1
  - l\_shmid\_ds, 56
- private2
  - l\_shmid\_ds, 56
- private3
  - l\_shmid\_ds, 56
- private\_handler
  - linux\_ioctl.c, 174
- procs
  - l\_sysinfo, 64
- protocol
  - linux\_socket\_args, 110
  - linux\_socketpair\_args, 111
- REBOOT\_CAD\_OFF
  - linux\_misc.c, 251
- REBOOT\_CAD\_ON
  - linux\_misc.c, 251
- REBOOT\_HALT
  - linux\_misc.c, 251
- REBOOT\_MAGIC1
  - linux\_misc.c, 252
- REBOOT\_MAGIC2
  - linux\_misc.c, 252
- REBOOT\_MAGIC2A
  - linux\_misc.c, 252
- REBOOT\_MAGIC2B
  - linux\_misc.c, 252
- REBOOT\_POWEROFF
  - linux\_misc.c, 252
- REBOOT\_RESTART
  - linux\_misc.c, 252
- REBOOT\_RESTART2
  - linux\_misc.c, 252
- refs
  - linux\_emuldata\_shared, 87
- region\_mask
  - l\_dvd\_lu\_send\_rpcstate, 33
- req\_linux
  - linux\_aio\_request, 71
- req\_pbsd
  - linux\_aio\_request, 71

- req\_porig
  - linux\_aio\_request, 71
- res
  - linux\_io\_event, 92
- res2
  - linux\_io\_event, 92
- reserved
  - linux\_serial\_struct, 107
- reserved\_char
  - linux\_serial\_struct, 107
- RESTORE\_DUMMY\_SYSCALL
  - linux\_aio.c, 126
- ring\_compat\_features
  - linux\_aio\_ring, 72
- ring\_head
  - linux\_aio\_ring, 72
- ring\_header\_length
  - linux\_aio\_ring, 72
- ring\_id
  - linux\_aio\_ring, 72
- ring\_incompat\_features
  - linux\_aio\_ring, 72
- ring\_io\_events
  - linux\_aio\_ring, 73
- ring\_magic
  - linux\_aio\_ring, 73
- ring\_nr
  - linux\_aio\_ring, 73
- ring\_tail
  - linux\_aio\_ring, 73
- rmi
  - l\_dvd\_copyright, 24
- rpc\_scheme
  - l\_dvd\_lu\_send\_rpcstate, 33
- rsv
  - linux\_socketpair\_args, 111
- s
  - linux\_accept\_args, 68
  - linux\_bind\_args, 74
  - linux\_connect\_args, 82
  - linux\_getpeername\_args, 88
  - linux\_getsockname\_args, 89
  - linux\_getsockopt\_args, 90
  - linux\_listen\_args, 95
  - linux\_recv\_args, 99
  - linux\_recvfrom\_args, 100
  - linux\_recvmsg\_args, 101
  - linux\_send\_args, 102
  - linux\_sendmsg\_args, 103
  - linux\_sendto\_args, 104
  - linux\_setsockopt\_args, 108
  - linux\_shutdown\_args, 109
- linux\_cdrom\_addr, 75
- sectors
  - linux\_hd\_big\_geometry, 91
- sem\_base
  - l\_semid\_ds, 50
- sem\_ctime
  - l\_semid\_ds, 50
- sem\_nsems
  - l\_semid\_ds, 50
- sem\_otime
  - l\_semid\_ds, 50
- sem\_pending
  - l\_semid\_ds, 50
- sem\_pending\_last
  - l\_semid\_ds, 51
- sem\_perm
  - l\_semid\_ds, 51
- semaem
  - l\_seminfo, 52
- semmap
  - l\_seminfo, 52
- semmni
  - l\_seminfo, 52
- semmns
  - l\_seminfo, 52
- semmnu
  - l\_seminfo, 52
- semmsl
  - l\_seminfo, 52
- semopm
  - l\_seminfo, 52
- semume
  - l\_seminfo, 53
- semusz
  - l\_seminfo, 53
- semvmx
  - l\_seminfo, 53
- seq
  - l\_ipc\_perm, 42
- set\_linux\_cdrom\_addr
  - linux\_ioctl.c, 172
- SETDIR
  - linux\_ioctl.c, 163
- shared
  - linux\_emuldata, 86
- sharedram
  - l\_sysinfo, 64
- shm\_atime
  - l\_shmid\_ds, 56
- shm\_cpid
  - l\_shmid\_ds, 56
- shm\_ctime
  - l\_shmid\_ds, 57
- shm\_dtime



- l\_shmid\_ds, 57
- shm\_lpid
  - l\_shmid\_ds, 57
- shm\_nattch
  - l\_shmid\_ds, 57
- shm\_perm
  - l\_shmid\_ds, 57
- shm\_rss
  - l\_shm\_info, 54
- shm\_segsz
  - l\_shmid\_ds, 57
- shm\_swp
  - l\_shm\_info, 54
- shm\_tot
  - l\_shm\_info, 54
- shmall
  - l\_shminfo, 58
- shmmax
  - l\_shminfo, 58
- shmmin
  - l\_shminfo, 58
- shmmni
  - l\_shminfo, 58
- shmseg
  - l\_shminfo, 58
- SHOW\_REAL\_SYSCALL
  - linux\_aio.c, 126
- SLIST\_HEAD
  - linux\_aio.c, 129
- socket\_handler
  - linux\_ioctl.c, 175
- sound\_handler
  - linux\_ioctl.c, 175
- sptab
  - linux\_ioctl.c, 175
- start
  - linux\_hd\_big\_geometry, 91
- start\_sector
  - l\_dvd\_layer, 29
- stat\_copyout
  - linux\_stats.c, 291
- swap\_attempts
  - l\_shm\_info, 54
- swap\_successes
  - l\_shm\_info, 54
- SYSCALL\_NODE
  - linux\_mib.c, 243
- SYSCALL\_PROC
  - linux\_mib.c, 243
- TAILQ\_HEAD
  - linux\_ioctl.c, 172
  - linux\_util.c, 306
- termio\_handler
  - linux\_ioctl.c, 175
- title\_key
  - l\_dvd\_lu\_send\_title\_key, 34
- tms\_cstime
  - l\_times\_argv, 66
- tms\_cutime
  - l\_times\_argv, 66
- tms\_stime
  - l\_times\_argv, 66
- tms\_utime
  - l\_times\_argv, 66
- to
  - linux\_sendto\_args, 104
- tolen
  - linux\_sendto\_args, 104
- totalbig
  - l\_sysinfo, 64
- totalram
  - l\_sysinfo, 64
- totalswap
  - l\_sysinfo, 64
- track\_density
  - l\_dvd\_layer, 29
- track\_path
  - l\_dvd\_layer, 29
- translate\_fd\_major\_minor
  - linux\_stats.c, 291
- translate\_path\_major\_minor
  - linux\_stats.c, 291
- type
  - l\_dvd\_authinfo, 22
  - l\_dvd\_bca, 23
  - l\_dvd\_copyright, 24
  - l\_dvd\_disckey, 25
  - l\_dvd\_host\_send\_challenge, 26
  - l\_dvd\_host\_send\_rpcstate, 27
  - l\_dvd\_lu\_send\_agid, 30
  - l\_dvd\_lu\_send\_asf, 31
  - l\_dvd\_lu\_send\_challenge, 32
  - l\_dvd\_lu\_send\_rpcstate, 33
  - l\_dvd\_lu\_send\_title\_key, 35
  - l\_dvd\_manufact, 36
  - l\_dvd\_physical, 37
  - l\_dvd\_send\_key, 38
  - l\_dvd\_struct, 40
  - linux\_serial\_struct, 107
  - linux\_socket\_args, 110
  - linux\_socketpair\_args, 111
- ucca
  - l\_dvd\_lu\_send\_rpcstate, 33
- uid
  - l\_ipc\_perm, 43
- undo

---

- l\_semid\_ds, 51
- uptime
  - l\_sysinfo, 64
- used\_ids
  - l\_shm\_info, 54
- user\_free
  - linux\_aio.c, 129
- user\_malloc
  - linux\_aio.c, 129
- value
  - l\_dvd\_bca, 23
  - l\_dvd\_disckey, 25
  - l\_dvd\_manufact, 36
- vfat\_handler
  - linux\_ioctl.c, 175
- vra
  - l\_dvd\_lu\_send\_rpcstate, 33
- waiting\_proc, 117
  - wp\_new\_futex, 117
  - wp\_t, 117
- wp\_new\_futex
  - waiting\_proc, 117
- wp\_t
  - waiting\_proc, 117
- ws\_col
  - linux\_winsize, 116
- ws\_row
  - linux\_winsize, 116
- ws\_xpixel
  - linux\_winsize, 116
- ws\_ypixel
  - linux\_winsize, 116
- xmit\_fifo\_size
  - linux\_serial\_struct, 107