

FreeBSD kernel libkern code Reference Manual

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Chapter 1

FreeBSD kernel libkern 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 libkern code Directory Hierarchy

2.1 FreeBSD kernel libkern code Directories

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

| | |
|-------------------|----|
| usr | 14 |
| src | 12 |
| sys | 13 |
| libkern | 10 |
| arm | 9 |

Chapter 3

FreeBSD kernel libkern code Data Structure Index

3.1 FreeBSD kernel libkern code Data Structures

Here are the data structures with brief descriptions:

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| iconv_xlat | 15 |
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| uu | 18 |

Chapter 4

FreeBSD kernel libkern code File Index

4.1 FreeBSD kernel libkern code File List

Here is a list of all files with brief descriptions:

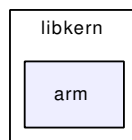
| | |
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FreeBSD kernel libkern code Directory Documentation

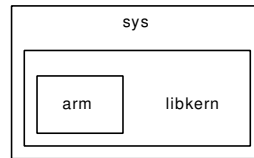
5.1 /usr/src/sys/libkern/arm/ Directory Reference



Files

- file [muldi3.c](#)

5.2 /usr/src/sys/libkern/ Directory Reference



Directories

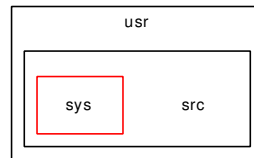
- directory [arm](#)

Files

- file [arc4random.c](#)
- file [ashldi3.c](#)
- file [ashrdi3.c](#)
- file [bcd.c](#)
- file [bcmp.c](#)
- file [bsearch.c](#)
- file [crc32.c](#)
- file [divdi3.c](#)
- file [ffs.c](#)
- file [ffsl.c](#)
- file [fls.c](#)
- file [flsl.c](#)
- file [fnmatch.c](#)
- file [gets.c](#)
- file [iconv.c](#)
- file [iconv_converter_if.m](#)
- file [iconv_xlat.c](#)
- file [iconv_xlat16.c](#)
- file [index.c](#)
- file [inet_ntoa.c](#)
- file [lshrdi3.c](#)
- file [mcount.c](#)
- file [moddi3.c](#)
- file [qdivrem.c](#)
- file [qsort.c](#)
- file [qsort_r.c](#)
- file [quad.h](#)
- file [random.c](#)
- file [rindex.c](#)
- file [scanc.c](#)
- file [skpc.c](#)
- file [strcasecmp.c](#)
- file [strcat.c](#)

- file [strcmp.c](#)
- file [strcpy.c](#)
- file [strdup.c](#)
- file [strcat.c](#)
- file [strcpy.c](#)
- file [strlen.c](#)
- file [strncmp.c](#)
- file [strncpy.c](#)
- file [strsep.c](#)
- file [strspn.c](#)
- file [strstr.c](#)
- file [strtol.c](#)
- file [strtoq.c](#)
- file [strtoul.c](#)
- file [strtouq.c](#)
- file [strvalid.c](#)
- file [ucmpdi2.c](#)
- file [udivdi3.c](#)
- file [umoddi3.c](#)

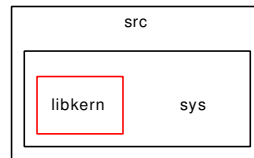
5.3 /usr/src/ Directory Reference



Directories

- directory [sys](#)

5.4 /usr/src/sys/ Directory Reference



Directories

- directory [libkern](#)

5.5 /usr/ Directory Reference



Directories

- directory [src](#)

Chapter 6

FreeBSD kernel libkern code Data Structure Documentation

6.1 iconv_xlat Struct Reference

Data Fields

- [KOBJ_FIELDS](#)
- `u_char * d_table`
- `iconv_cspair * d_csp`

6.1.1 Detailed Description

Definition at line 55 of file `iconv_xlat.c`.

6.1.2 Field Documentation

6.1.2.1 `struct iconv_cspair* iconv_xlat::d_csp`

Definition at line 58 of file `iconv_xlat.c`.

Referenced by `iconv_xlat_close()`, and `iconv_xlat_open()`.

6.1.2.2 `u_char* iconv_xlat::d_table`

Definition at line 57 of file `iconv_xlat.c`.

Referenced by `iconv_xlat_conv()`, and `iconv_xlat_open()`.

6.1.2.3 `iconv_xlat::KOBJ_FIELDS`

Definition at line 56 of file `iconv_xlat.c`.

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

- [/usr/src/sys/libkern/iconv_xlat.c](#)

6.2 iconv_xlat16 Struct Reference

Data Fields

- [KOBJ_FIELDS](#)
- `uint32_t * d_table` [0x200]
- `iconv_cspair * d_csp`

6.2.1 Detailed Description

Definition at line 49 of file `iconv_xlat16.c`.

6.2.2 Field Documentation

6.2.2.1 `struct iconv_cspair* iconv_xlat16::d_csp`

Definition at line 52 of file `iconv_xlat16.c`.

Referenced by `iconv_xlat16_close()`, and `iconv_xlat16_open()`.

6.2.2.2 `uint32_t* iconv_xlat16::d_table[0x200]`

Definition at line 51 of file `iconv_xlat16.c`.

Referenced by `iconv_xlat16_conv()`, and `iconv_xlat16_open()`.

6.2.2.3 `iconv_xlat16::KOBJ_FIELDS`

Definition at line 50 of file `iconv_xlat16.c`.

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

- `/usr/src/sys/libkern/iconv_xlat16.c`

6.3 uu Union Reference

```
#include <quad.h>
```

Data Fields

- `quad_t` [q](#)
- `quad_t` [uq](#)
- `long` [sl](#) [2]
- `u_long` [ul](#) [2]

6.3.1 Detailed Description

Definition at line 65 of file `quad.h`.

6.3.2 Field Documentation

6.3.2.1 `quad_t uu::q`

Definition at line 66 of file `quad.h`.

Referenced by `__ashldi3()`, `__ashrdi3()`, `__lmulq()`, `__lshrdi3()`, `__muldi3()`, and `__qdivrem()`.

6.3.2.2 `long uu::sl[2]`

Definition at line 68 of file `quad.h`.

Referenced by `__ashrdi3()`.

6.3.2.3 `u_long uu::ul[2]`

Definition at line 69 of file `quad.h`.

Referenced by `__ashldi3()`, `__ashrdi3()`, `__lmulq()`, `__lshrdi3()`, `__muldi3()`, `__qdivrem()`, and `__ucmpdi2()`.

6.3.2.4 `quad_t uu::uq`

Definition at line 67 of file `quad.h`.

Referenced by `__divdi3()`, `__qdivrem()`, and `__ucmpdi2()`.

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

- `/usr/src/sys/libkern/quad.h`

Chapter 7

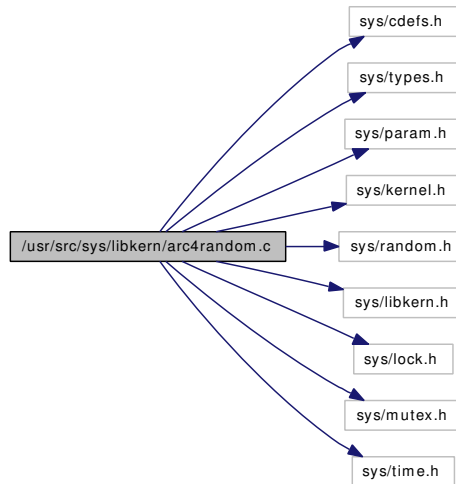
FreeBSD kernel libkern code File Documentation

7.1 notreviewed.dox File Reference

7.2 /usr/src/sys/libkern/arc4random.c File Reference

```
#include <sys/cdefs.h>
#include <sys/types.h>
#include <sys/param.h>
#include <sys/kernel.h>
#include <sys/random.h>
#include <sys/libkern.h>
#include <sys/lock.h>
#include <sys/mutex.h>
#include <sys/time.h>
```

Include dependency graph for arc4random.c:



Defines

- #define [ARC4_RESEED_BYTES](#) 65536
- #define [ARC4_RESEED_SECONDS](#) 300
- #define [ARC4_KEYBYTES](#) (256 / 8)

Functions

- [__FBSDID](#) ("FreeBSD: src/sys/libkern/arc4random.c,v 1.12 2003/08/15 06:34:47 silby Exp \$")
- static u_int8_t [arc4_randbyte](#) (void)
- static __inline void [arc4_swap](#) (u_int8_t *a, u_int8_t *b)
- static void [arc4_randomstir](#) (void)
- static void [arc4_init](#) (void)
- [SYSINIT](#) (arc4_init, SI_SUB_LOCK, SI_ORDER_ANY, arc4_init, NULL)
- void [arc4rand](#) (void *ptr, u_int len, int reseed)
- uint32_t [arc4random](#) (void)

Variables

- static u_int8_t [arc4_i](#)
- static u_int8_t [arc4_j](#)
- static int [arc4_numruns](#) = 0
- static u_int8_t [arc4_sbox](#) [256]
- static time_t [arc4_t_reseed](#)
- static struct mtx [arc4_mtx](#)

7.2.1 Define Documentation

7.2.1.1 #define ARC4_KEYBYTES (256 / 8)

Definition at line 25 of file arc4random.c.

Referenced by [arc4_randomstir\(\)](#).

7.2.1.2 #define ARC4_RESEED_BYTES 65536

Definition at line 23 of file arc4random.c.

Referenced by [arc4rand\(\)](#).

7.2.1.3 #define ARC4_RESEED_SECONDS 300

Definition at line 24 of file arc4random.c.

Referenced by [arc4_randomstir\(\)](#).

7.2.2 Function Documentation

7.2.2.1 __FBSDID ("\$FreeBSD: src/sys/libkern/arc4random. c, v 1.12 2003/08/15 06:34:47 silby Exp \$")

7.2.2.2 static void arc4_init (void) [static]

Definition at line 91 of file arc4random.c.

References [arc4_i](#), [arc4_j](#), [arc4_mtx](#), [arc4_sbox](#), and [arc4_t_reseed](#).

7.2.2.3 static u_int8_t arc4_randbyte (void) [static]

Definition at line 109 of file arc4random.c.

References [arc4_i](#), [arc4_j](#), [arc4_sbox](#), and [arc4_swap\(\)](#).

Referenced by [arc4_randomstir\(\)](#), and [arc4rand\(\)](#).

Here is the call graph for this function:



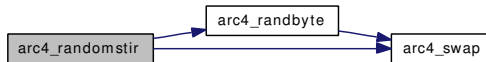
7.2.2.4 static void arc4_randomstir (void) [static]

Definition at line 49 of file arc4random.c.

References arc4_j, ARC4_KEYBYTES, arc4_mtx, arc4_numruns, arc4_randbyte(), ARC4_RESEED_SECONDS, arc4_sbox, arc4_swap(), and arc4_t_reseed.

Referenced by arc4rand().

Here is the call graph for this function:



7.2.2.5 static __inline void arc4_swap (u_int8_t * a, u_int8_t * b) [static]

Definition at line 36 of file arc4random.c.

Referenced by arc4_randbyte(), and arc4_randomstir().

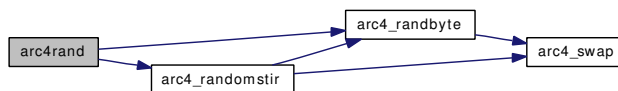
7.2.2.6 void arc4rand (void * ptr, u_int len, int reseed)

Definition at line 126 of file arc4random.c.

References arc4_mtx, arc4_numruns, arc4_randbyte(), arc4_randomstir(), ARC4_RESEED_BYTES, and arc4_t_reseed.

Referenced by arc4random().

Here is the call graph for this function:

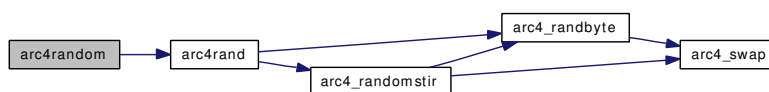


7.2.2.7 uint32_t arc4random (void)

Definition at line 146 of file arc4random.c.

References arc4rand().

Here is the call graph for this function:



7.2.2.8 **SYSINIT** (`arc4_init`, `SI_SUB_LOCK`, `SI_ORDER_ANY`, `arc4_init`, `NULL`)

7.2.3 Variable Documentation

7.2.3.1 **u_int8_t arc4_i** [static]

Definition at line 27 of file arc4random.c.

Referenced by `arc4_init()`, and `arc4_randbyte()`.

7.2.3.2 **u_int8_t arc4_j** [static]

Definition at line 27 of file arc4random.c.

Referenced by `arc4_init()`, `arc4_randbyte()`, and `arc4_randomstir()`.

7.2.3.3 **struct mtx arc4_mtx** [static]

Definition at line 31 of file arc4random.c.

Referenced by `arc4_init()`, `arc4_randomstir()`, and `arc4rand()`.

7.2.3.4 **int arc4_numruns = 0** [static]

Definition at line 28 of file arc4random.c.

Referenced by `arc4_randomstir()`, and `arc4rand()`.

7.2.3.5 **u_int8_t arc4_sbox[256]** [static]

Definition at line 29 of file arc4random.c.

Referenced by `arc4_init()`, `arc4_randbyte()`, and `arc4_randomstir()`.

7.2.3.6 **time_t arc4_t_reseed** [static]

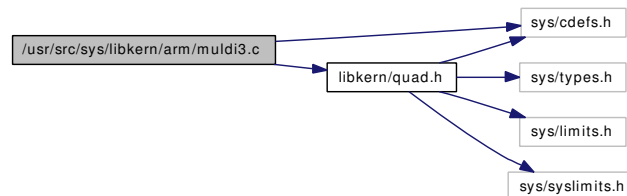
Definition at line 30 of file arc4random.c.

Referenced by `arc4_init()`, `arc4_randomstir()`, and `arc4rand()`.

7.3 /usr/src/sys/libkern/arm/muldi3.c File Reference

```
#include <sys/cdefs.h>
#include <libkern/quad.h>
```

Include dependency graph for muldi3.c:



Defines

- `#define u1 u.ul[H]`
- `#define u0 u.ul[L]`
- `#define v1 v.ul[H]`
- `#define v0 v.ul[L]`

Functions

- static `quad_t __lmulq(u_int, u_int)`
- `quad_t __muldi3(quad_t, quad_t)`

7.3.1 Define Documentation

7.3.1.1 `#define u0 u.ul[L]`

Referenced by `__lmulq()`, and `__muldi3()`.

7.3.1.2 `#define u1 u.ul[H]`

Referenced by `__lmulq()`, and `__muldi3()`.

7.3.1.3 `#define v0 v.ul[L]`

Referenced by `__lmulq()`, and `__muldi3()`.

7.3.1.4 `#define v1 v.ul[H]`

Referenced by `__lmulq()`, `__muldi3()`, and `__qdivrem()`.

7.3.2 Function Documentation

7.3.2.1 `static quad_t __lmulq(u_int, u_int)` [static]

Definition at line 192 of file muldi3.c.

References `H`, `HHALF`, `L`, `LHALF`, `LHUP`, `uu::q`, `u0`, `u1`, `uu::ul`, `v0`, and `v1`.

Referenced by `__muldi3()`.

7.3.2.2 `quad_t __muldi3(quad_t, quad_t)`

Definition at line 108 of file muldi3.c.

References `__lmulq()`, `H`, `L`, `uu::q`, `u0`, `u1`, `uu::ul`, `v0`, and `v1`.

Here is the call graph for this function:

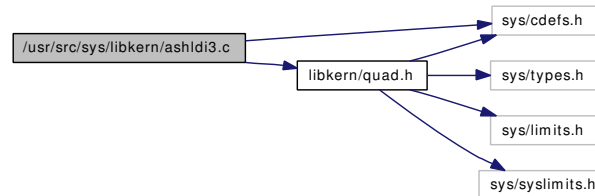


7.4 /usr/src/sys/libkern/ashldi3.c File Reference

```
#include <sys/cdefs.h>
```

```
#include <libkern/quad.h>
```

Include dependency graph for ashldi3.c:



Functions

- `__FBSDID` ("FreeBSD: src/sys/libkern/ashldi3.c,v 1.8 2004/04/07 20:46:10 imp Exp \$")
- `quad_t __ashldi3` (`quad_t a`, `qshift_t shift`)

7.4.1 Function Documentation

7.4.1.1 `quad_t __ashldi3` (`quad_t a`, `qshift_t shift`)

Definition at line 44 of file ashldi3.c.

References `H`, `L`, `LONG_BITS`, `uu::q`, `QUAD_BITS`, and `uu::ul`.

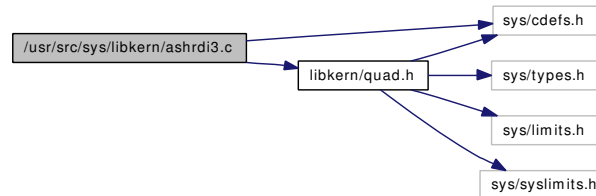
7.4.1.2 `__FBSDID` ("FreeBSD: src/sys/libkern/ashldi3. c, v 1.8 2004/04/07 20:46:10 imp Exp \$")

7.5 /usr/src/sys/libkern/ashrdi3.c File Reference

```
#include <sys/cdefs.h>
```

```
#include <libkern/quad.h>
```

Include dependency graph for ashrdi3.c:



Functions

- `__FBSDID` ("FreeBSD: src/sys/libkern/ashrdi3.c,v 1.9 2004/04/07 20:46:10 imp Exp \$")
- `quad_t __ashrdi3` (`quad_t a`, `qshift_t shift`)

7.5.1 Function Documentation

7.5.1.1 `quad_t __ashrdi3` (`quad_t a`, `qshift_t shift`)

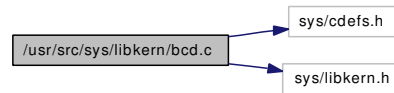
Definition at line 43 of file `ashrdi3.c`.

References `H`, `L`, `LONG_BITS`, `uu::q`, `QUAD_BITS`, `uu::sl`, and `uu::ul`.

7.5.1.2 `__FBSDID` ("FreeBSD: src/sys/libkern/ashrdi3.c, v 1.9 2004/04/07 20:46:10 imp Exp \$")

7.6 /usr/src/sys/libkern/bcd.c File Reference

```
#include <sys/cdefs.h>
#include <sys/libkern.h>
Include dependency graph for bcd.c:
```



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/bcd.c,v 1.7 2005/01/07 00:24:32 imp Exp \$")

Variables

- `u_char` const `bcd2bin_data` []
- `u_char` const `bin2bcd_data` []
- `char` const `hex2ascii_data` [] = "0123456789abcdefghijklmnopqrstuvwxy"

7.6.1 Function Documentation

7.6.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/bcd. c, v 1.7 2005/01/07 00:24:32 imp Exp \$")

7.6.2 Variable Documentation

7.6.2.1 `u_char` const `bcd2bin_data` []

Initial value:

```
{
    0,  1,  2,  3,  4,  5,  6,  7,  8,  9, 0, 0, 0, 0, 0, 0,
    10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 0, 0, 0, 0, 0, 0,
    20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 0, 0, 0, 0, 0, 0,
    30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 0, 0, 0, 0, 0, 0,
    40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 0, 0, 0, 0, 0, 0,
    50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 0, 0, 0, 0, 0, 0,
    60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 0, 0, 0, 0, 0, 0,
    70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 0, 0, 0, 0, 0, 0,
    80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 0, 0, 0, 0, 0, 0,
    90, 91, 92, 93, 94, 95, 96, 97, 98, 99
}
```

Definition at line 11 of file bcd.c.

7.6.2.2 `u_char` const `bin2bcd_data` []

Initial value:

```
{
    0x00, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09,
    0x10, 0x11, 0x12, 0x13, 0x14, 0x15, 0x16, 0x17, 0x18, 0x19,
    0x20, 0x21, 0x22, 0x23, 0x24, 0x25, 0x26, 0x27, 0x28, 0x29,
    0x30, 0x31, 0x32, 0x33, 0x34, 0x35, 0x36, 0x37, 0x38, 0x39,
    0x40, 0x41, 0x42, 0x43, 0x44, 0x45, 0x46, 0x47, 0x48, 0x49,
    0x50, 0x51, 0x52, 0x53, 0x54, 0x55, 0x56, 0x57, 0x58, 0x59,
    0x60, 0x61, 0x62, 0x63, 0x64, 0x65, 0x66, 0x67, 0x68, 0x69,
    0x70, 0x71, 0x72, 0x73, 0x74, 0x75, 0x76, 0x77, 0x78, 0x79,
    0x80, 0x81, 0x82, 0x83, 0x84, 0x85, 0x86, 0x87, 0x88, 0x89,
    0x90, 0x91, 0x92, 0x93, 0x94, 0x95, 0x96, 0x97, 0x98, 0x99
}
```

Definition at line 24 of file bcd.c.

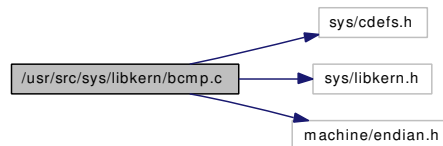
7.6.2.3 `char const hex2ascii_data[] = "0123456789abcdefghijklmnopqrstuvwxy"`

Definition at line 38 of file bcd.c.

7.7 /usr/src/sys/libkern/bcmp.c File Reference

```
#include <sys/cdefs.h>
#include <sys/libkern.h>
#include <machine/endian.h>
```

Include dependency graph for bcmp.c:



Typedefs

- typedef const void * [cvp](#)
- typedef const unsigned char * [ustring](#)
- typedef unsigned long [ul](#)
- typedef const unsigned long * [culp](#)

Functions

- [__FBSDID](#) ("\$FreeBSD: src/sys/libkern/bcmp.c,v 1.11 2005/01/07 00:24:32 imp Exp \$")
- int [bcmp](#) (void *b1, void *b2, size_t length) const

7.7.1 Typedef Documentation

7.7.1.1 typedef const unsigned long* [culp](#)

Definition at line 39 of file bcmp.c.

7.7.1.2 typedef const void* [cvp](#)

Definition at line 36 of file bcmp.c.

7.7.1.3 typedef unsigned long [ul](#)

Definition at line 38 of file bcmp.c.

7.7.1.4 typedef const unsigned char* [ustring](#)

Definition at line 37 of file bcmp.c.

7.7.2 Function Documentation

7.7.2.1 `__FBSDID ("FreeBSD: src/sys/libkern/bcmp. c, v 1.11 2005/01/07 00:24:32 imp Exp $")`

7.7.2.2 `int bcmp (void * b1, void * b2, size_t length) const`

Definition at line 45 of file bcmp.c.

References `L`, and `shl()`.

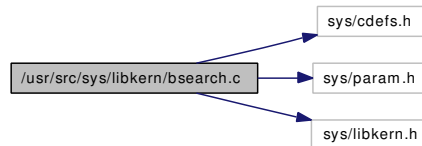
Here is the call graph for this function:



7.8 /usr/src/sys/libkern/bsearch.c File Reference

```
#include <sys/cdefs.h>
#include <sys/param.h>
#include <sys/libkern.h>
```

Include dependency graph for bsearch.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/bsearch.c,v 1.8 2005/01/07 00:24:32 imp Exp \$")
- `void * bsearch` (const void *key, const void *base0, size_t nmemb, size_t size, int *compar)

7.8.1 Function Documentation

7.8.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/bsearch. c, v 1.8 2005/01/07 00:24:32 imp Exp \$")

7.8.1.2 `void* bsearch` (const void * *key*, const void * *base0*, size_t *nmemb*, size_t *size*, int * *compar*)

Definition at line 56 of file `bsearch.c`.

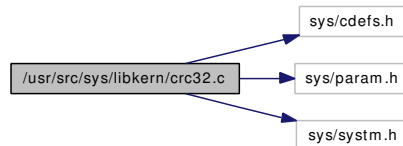
7.9 /usr/src/sys/libkern/crc32.c File Reference

```
#include <sys/cdefs.h>
```

```
#include <sys/param.h>
```

```
#include <sys/system.h>
```

Include dependency graph for crc32.c:



Functions

- [__FBSDID](#) ("\$FreeBSD: src/sys/libkern/crc32.c,v 1.5 2005/04/28 05:50:18 marcel Exp \$")

Variables

- [uint32_t crc32_tab](#) []

7.9.1 Function Documentation

7.9.1.1 [__FBSDID](#) ("\$FreeBSD: src/sys/libkern/crc32.c, v 1.5 2005/04/28 05:50:18 marcel Exp \$")

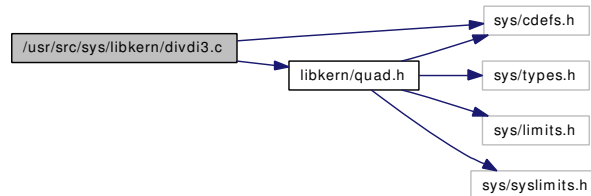
7.9.2 Variable Documentation

7.9.2.1 [uint32_t crc32_tab](#) []

Definition at line 51 of file crc32.c.

7.10 /usr/src/sys/libkern/divdi3.c File Reference

```
#include <sys/cdefs.h>
#include <libkern/quad.h>
Include dependency graph for divdi3.c:
```



Functions

- `__FBSDID` ("FreeBSD: src/sys/libkern/divdi3.c, v 1.8 2004/04/07 20:46:10 imp Exp \$")
- `quad_t __divdi3` (`quad_t a`, `quad_t b`)

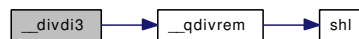
7.10.1 Function Documentation

7.10.1.1 `quad_t __divdi3` (`quad_t a`, `quad_t b`)

Definition at line 44 of file `divdi3.c`.

References `__qdivrem()`, and `uu::uq`.

Here is the call graph for this function:



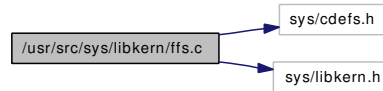
7.10.1.2 `__FBSDID` ("FreeBSD: src/sys/libkern/divdi3.c, v 1.8 2004/04/07 20:46:10 imp Exp \$")

7.11 /usr/src/sys/libkern/ffs.c File Reference

```
#include <sys/cdefs.h>
```

```
#include <sys/libkern.h>
```

Include dependency graph for ffs.c:



Functions

- `__FBSDID` ("FreeBSD: src/sys/libkern/ffs.c,v 1.11 2004/04/07 20:46:10 imp Exp \$")
- `int ffs` (`int mask`)

7.11.1 Function Documentation

7.11.1.1 `__FBSDID` ("FreeBSD: src/sys/libkern/ffs. c, v 1.11 2004/04/07 20:46:10 imp Exp \$")

7.11.1.2 `int ffs` (`int mask`)

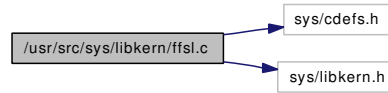
Definition at line 39 of file `ffs.c`.

7.12 /usr/src/sys/libkern/ffsl.c File Reference

```
#include <sys/cdefs.h>
```

```
#include <sys/libkern.h>
```

Include dependency graph for ffsl.c:



Functions

- [__FBSDID](#) ("\$FreeBSD: src/sys/libkern/ffsl.c,v 1.4 2004/04/07 20:46:10 imp Exp \$")
- [int ffsl](#) (long *mask*)

7.12.1 Function Documentation

7.12.1.1 [__FBSDID](#) ("\$FreeBSD: src/sys/libkern/ffsl. c, v 1.4 2004/04/07 20:46:10 imp Exp \$")

7.12.1.2 [int ffsl](#) (long *mask*)

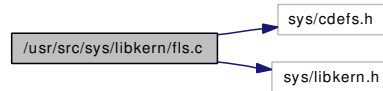
Definition at line 39 of file ffsl.c.

7.13 /usr/src/sys/libkern/fls.c File Reference

```
#include <sys/cdefs.h>
```

```
#include <sys/libkern.h>
```

Include dependency graph for fls.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/fls.c,v 1.4 2004/04/07 20:46:10 imp Exp \$")
- `int fls` (int mask)

7.13.1 Function Documentation

7.13.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/fls.c, v 1.4 2004/04/07 20:46:10 imp Exp \$")

7.13.1.2 `int fls` (int *mask*)

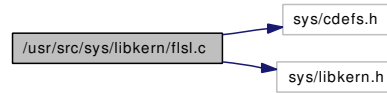
Definition at line 39 of file `fls.c`.

7.14 /usr/src/sys/libkern/flsl.c File Reference

```
#include <sys/cdefs.h>
```

```
#include <sys/libkern.h>
```

Include dependency graph for flsl.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/flsl.c,v 1.4 2004/04/07 20:46:10 imp Exp \$")
- `int flsl` (long *mask*)

7.14.1 Function Documentation

7.14.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/flsl. c, v 1.4 2004/04/07 20:46:10 imp Exp \$")

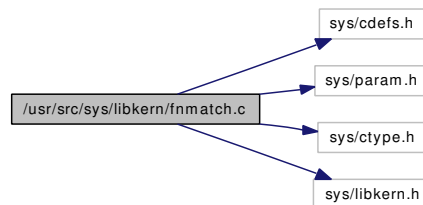
7.14.1.2 `int flsl` (long *mask*)

Definition at line 39 of file `flsl.c`.

7.15 /usr/src/sys/libkern/fnmatch.c File Reference

```
#include <sys/cdefs.h>
#include <sys/param.h>
#include <sys/ctype.h>
#include <sys/libkern.h>
```

Include dependency graph for fnmatch.c:



Defines

- #define [EOS](#) `'\0'`
- #define [RANGE_MATCH](#) 1
- #define [RANGE_NOMATCH](#) 0
- #define [RANGE_ERROR](#) (-1)

Functions

- [__FBSDID](#) ("FreeBSD: src/sys/libkern/fnmatch.c,v 1.20 2006/01/22 00:46:40 rwatson Exp \$")
- static int [rangematch](#) (const char *, char, int, char **)
- int [fnmatch](#) (const char *pattern, const char *string, int flags)

7.15.1 Define Documentation

7.15.1.1 #define EOS '\0'

Definition at line 45 of file fnmatch.c.

Referenced by [fnmatch\(\)](#), and [rangematch\(\)](#).

7.15.1.2 #define RANGE_ERROR (-1)

Definition at line 49 of file fnmatch.c.

Referenced by [fnmatch\(\)](#), and [rangematch\(\)](#).

7.15.1.3 #define RANGE_MATCH 1

Definition at line 47 of file fnmatch.c.

Referenced by [fnmatch\(\)](#), and [rangematch\(\)](#).

7.15.1.4 #define RANGE_NOMATCH 0

Definition at line 48 of file fnmatch.c.

Referenced by fnmatch(), and rangematch().

7.15.2 Function Documentation

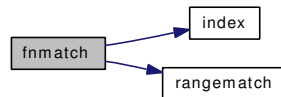
7.15.2.1 __FBSDID ("\$FreeBSD: src/sys/libkern/fnmatch.c, v 1.20 2006/01/22 00:46:40 rwatson Exp \$")

7.15.2.2 int fnmatch (const char * *pattern*, const char * *string*, int *flags*)

Definition at line 54 of file fnmatch.c.

References EOS, index(), RANGE_ERROR, RANGE_MATCH, RANGE_NOMATCH, and rangematch().

Here is the call graph for this function:



7.15.2.3 static int rangematch (const char *, char, int, char **) [static]

Definition at line 157 of file fnmatch.c.

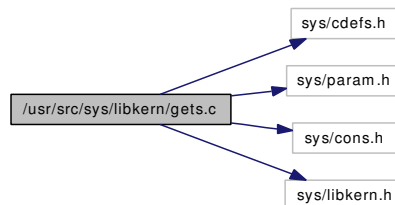
References EOS, RANGE_ERROR, RANGE_MATCH, and RANGE_NOMATCH.

Referenced by fnmatch().

7.16 /usr/src/sys/libkern/gets.c File Reference

```
#include <sys/cdefs.h>
#include <sys/param.h>
#include <sys/cons.h>
#include <sys/libkern.h>
```

Include dependency graph for gets.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/gets.c,v 1.4 2006/01/14 20:45:02 ru Exp \$")
- void `gets` (char **cp*, `size_t` *size*, int *visible*)

7.16.1 Function Documentation

7.16.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/gets. c, v 1.4 2006/01/14 20:45:02 ru Exp \$")

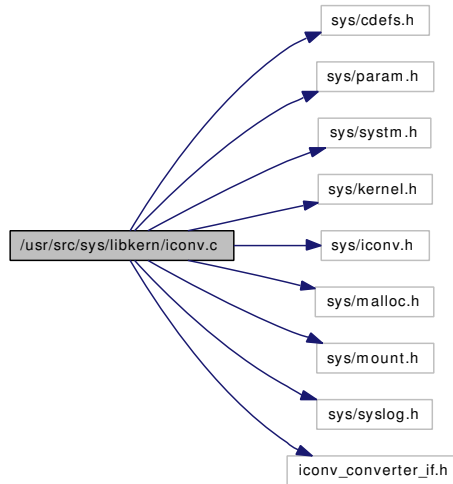
7.16.1.2 void `gets` (char * *cp*, `size_t` *size*, int *visible*)

Definition at line 36 of file `gets.c`.

7.17 /usr/src/sys/libkern/iconv.c File Reference

```
#include <sys/cdefs.h>
#include <sys/param.h>
#include <sys/system.h>
#include <sys/kernel.h>
#include <sys/iconv.h>
#include <sys/malloc.h>
#include <sys/mount.h>
#include <sys/syslog.h>
#include "iconv_converter_if.h"
```

Include dependency graph for iconv.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/iconv.c,v 1.12 2005/10/31 15:41:26 rwatson Exp \$")
- `SYSCTL_DECL` (`_kern_iconv`)
- `SYSCTL_NODE` (`_kern`, `OID_AUTO`, `iconv`, `CTLFLAG_RW`, `NULL`, "kernel iconv interface")
- `MALLOC_DEFINE` (`M_ICONV`, "iconv", "ICONV structures")
- `MALLOC_DEFINE` (`M_ICONVDATA`, "iconv_data", "ICONV data")
- `MODULE_VERSION` (`libiconv`, 2)
- static `TAILQ_HEAD` (`iconv_converter_list`, `iconv_converter_class`)
- static `int iconv_mod_handler` (`module_t mod`, `int type`, `void *data`)
- `DECLARE_MODULE` (`iconv`, `iconv_mod`, `SI_SUB_DRIVERS`, `SI_ORDER_SECOND`)
- static `int iconv_register_converter` (`struct iconv_converter_class *dcp`)
- static `int iconv_unregister_converter` (`struct iconv_converter_class *dcp`)
- static `int iconv_lookupconv` (`const char *name`, `struct iconv_converter_class **dcpp`)
- static `int iconv_lookuppcs` (`const char *to`, `const char *from`, `struct iconv_cspair **cspp`)
- static `int iconv_register_cspair` (`const char *to`, `const char *from`, `struct iconv_converter_class *dcp`, `void *data`, `struct iconv_cspair **cspp`)

- static void `iconv_unregister_cspair` (struct `iconv_cspair` *csp)
- int `iconv_open` (const char *to, const char *from, void **handle)
- int `iconv_close` (void *handle)
- int `iconv_conv` (void *handle, const char **inbuf, size_t *inbytesleft, char **outbuf, size_t *outbytesleft)
- int `iconv_conv_case` (void *handle, const char **inbuf, size_t *inbytesleft, char **outbuf, size_t *outbytesleft, int casetype)
- int `iconv_convchr` (void *handle, const char **inbuf, size_t *inbytesleft, char **outbuf, size_t *outbytesleft)
- int `iconv_convchr_case` (void *handle, const char **inbuf, size_t *inbytesleft, char **outbuf, size_t *outbytesleft, int casetype)
- static int `iconv_sysctl_drvlist` (SYSCTL_HANDLER_ARGS)
- `SYSCTL_PROC` (_kern_iconv, OID_AUTO, drvlist, CTLFLAG_RD|CTLTYPE_OPAQUE, NULL, 0, iconv_sysctl_drvlist, "S,xlat", "registered converters")
- static int `iconv_sysctl_cslist` (SYSCTL_HANDLER_ARGS)
- `SYSCTL_PROC` (_kern_iconv, OID_AUTO, cslist, CTLFLAG_RD|CTLTYPE_OPAQUE, NULL, 0, iconv_sysctl_cslist, "S,xlat", "registered charset pairs")
- static int `iconv_sysctl_add` (SYSCTL_HANDLER_ARGS)
- `SYSCTL_PROC` (_kern_iconv, OID_AUTO, add, CTLFLAG_RW|CTLTYPE_OPAQUE, NULL, 0, iconv_sysctl_add, "S,xlat", "register charset pair")
- int `iconv_converter_initstub` (struct `iconv_converter_class` *dp)
- int `iconv_converter_donestub` (struct `iconv_converter_class` *dp)
- int `iconv_converter_handler` (module_t mod, int type, void *data)
- char * `iconv_convstr` (void *handle, char *dst, const char *src)
- void * `iconv_convmem` (void *handle, void *dst, const void *src, int size)
- int `iconv_lookupcp` (char **cpp, const char *s)
- int `iconv_vfs_refcount` (const char *fsname)

Variables

- sysctl_oid * `iconv_oid_hook` = &sysctl___kern_iconv
- static moduledata_t `iconv_mod`

7.17.1 Function Documentation

7.17.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/iconv.c, v 1.12 2005/10/31 15:41:26 rwatson Exp \$")

7.17.1.2 `DECLARE_MODULE` (iconv, `iconv_mod`, SI_SUB_DRIVERS, SI_ORDER_SECOND)

7.17.1.3 int `iconv_close` (void * *handle*)

Definition at line 268 of file iconv.c.

7.17.1.4 int `iconv_conv` (void * *handle*, const char ** *inbuf*, size_t * *inbytesleft*, char ** *outbuf*, size_t * *outbytesleft*)

Definition at line 274 of file iconv.c.

Referenced by `iconv_convmem()`, and `iconv_convstr()`.

7.17.1.5 `int iconv_conv_case (void * handle, const char ** inbuf, size_t * inbytesleft, char ** outbuf, size_t * outbytesleft, int casetype)`

Definition at line 281 of file iconv.c.

7.17.1.6 `int iconv_convchr (void * handle, const char ** inbuf, size_t * inbytesleft, char ** outbuf, size_t * outbytesleft)`

Definition at line 288 of file iconv.c.

7.17.1.7 `int iconv_convchr_case (void * handle, const char ** inbuf, size_t * inbytesleft, char ** outbuf, size_t * outbytesleft, int casetype)`

Definition at line 295 of file iconv.c.

7.17.1.8 `int iconv_converter_donestub (struct iconv_converter_class * dp)`

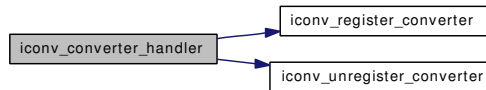
Definition at line 423 of file iconv.c.

7.17.1.9 `int iconv_converter_handler (module_t mod, int type, void * data)`

Definition at line 429 of file iconv.c.

References `iconv_register_converter()`, and `iconv_unregister_converter()`.

Here is the call graph for this function:



7.17.1.10 `int iconv_converter_initstub (struct iconv_converter_class * dp)`

Definition at line 417 of file iconv.c.

7.17.1.11 `void* iconv_convmem (void * handle, void * dst, const void * src, int size)`

Definition at line 479 of file iconv.c.

References `iconv_conv()`.

Here is the call graph for this function:

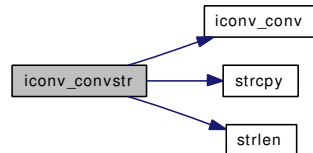


7.17.1.12 char* iconv_convstr (void * handle, char * dst, const char * src)

Definition at line 457 of file iconv.c.

References iconv_conv(), strcpy(), and strlen().

Here is the call graph for this function:

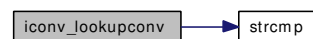
**7.17.1.13 static int iconv_lookupconv (const char * name, struct iconv_converter_class ** dcpp)**
[static]

Definition at line 143 of file iconv.c.

References strcmp().

Referenced by iconv_sysctl_add().

Here is the call graph for this function:

**7.17.1.14 int iconv_lookupcp (char ** cpp, const char * s)**

Definition at line 503 of file iconv.c.

References strcmp().

Here is the call graph for this function:

**7.17.1.15 static int iconv_lookupcs (const char * to, const char * from, struct iconv_cspair ** cspp)**
[static]

Definition at line 160 of file iconv.c.

References strcmp().

Referenced by iconv_open(), and iconv_register_cspair().

Here is the call graph for this function:



7.17.1.16 `static int iconv_mod_handler (module_t mod, int type, void * data) [static]`

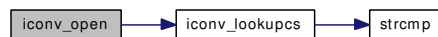
Definition at line 98 of file iconv.c.

7.17.1.17 `int iconv_open (const char * to, const char * from, void ** handle)`

Definition at line 231 of file iconv.c.

References iconv_lookupcs().

Here is the call graph for this function:



7.17.1.18 `static int iconv_register_converter (struct iconv_converter_class * dcp) [static]`

Definition at line 122 of file iconv.c.

Referenced by iconv_converter_handler().

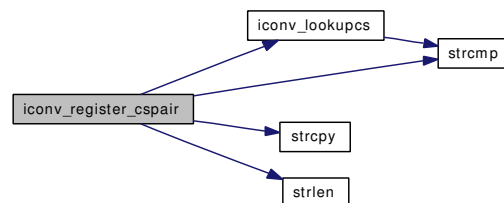
7.17.1.19 `static int iconv_register_cspair (const char * to, const char * from, struct iconv_converter_class * dcp, void * data, struct iconv_cspair ** cspp) [static]`

Definition at line 176 of file iconv.c.

References iconv_lookupcs(), strcmp(), strcpy(), and strlen().

Referenced by iconv_sysctl_add().

Here is the call graph for this function:

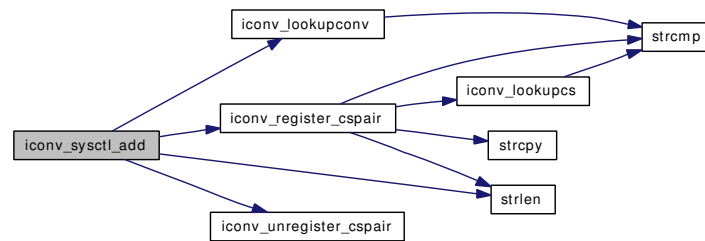


7.17.1.20 `static int iconv_sysctl_add (SYSCTL_HANDLER_ARGS) [static]`

Definition at line 367 of file iconv.c.

References iconv_lookupconv(), iconv_register_cspair(), iconv_unregister_cspair(), and strlen().

Here is the call graph for this function:



7.17.1.21 static int iconv_sysctl_cslist (SYSCTL_HANDLER_ARGS) [static]

Definition at line 337 of file iconv.c.

References strcpy().

Here is the call graph for this function:



7.17.1.22 static int iconv_sysctl_drvlist (SYSCTL_HANDLER_ARGS) [static]

Definition at line 306 of file iconv.c.

References strlen().

Here is the call graph for this function:



7.17.1.23 static int iconv_unregister_converter (struct iconv_converter_class * dcp) [static]

Definition at line 131 of file iconv.c.

Referenced by iconv_converter_handler().

7.17.1.24 static void iconv_unregister_cspair (struct iconv_cspair * csp) [static]

Definition at line 217 of file iconv.c.

Referenced by iconv_sysctl_add(), and TAILQ_HEAD().

7.17.1.25 int iconv_vfs_refcount (const char * fsname)

Definition at line 521 of file iconv.c.

- 7.17.1.26 `MALLOC_DEFINE (M_ICONVDATA, "iconv_data", "ICONV data")`
- 7.17.1.27 `MALLOC_DEFINE (M_ICONV, "iconv", "ICONV structures")`
- 7.17.1.28 `MODULE_VERSION (libiconv, 2)`
- 7.17.1.29 `SYSCTL_DECL (_kern_iconv)`
- 7.17.1.30 `SYSCTL_NODE (_kern, OID_AUTO, iconv, CTLFLAG_RW, NULL, "kernel iconv interface")`
- 7.17.1.31 `SYSCTL_PROC (_kern_iconv, OID_AUTO, add, CTLFLAG_RW| CTLTYPE_OPAQUE, NULL, 0, iconv_sysctl_add, " S, xlat", "register charset pair")`
- 7.17.1.32 `SYSCTL_PROC (_kern_iconv, OID_AUTO, cslist, CTLFLAG_RD| CTLTYPE_OPAQUE, NULL, 0, iconv_sysctl_cslist, " S, xlat", "registered charset pairs")`
- 7.17.1.33 `SYSCTL_PROC (_kern_iconv, OID_AUTO, drvlist, CTLFLAG_RD| CTLTYPE_OPAQUE, NULL, 0, iconv_sysctl_drvlist, " S, xlat", "registered converters")`
- 7.17.1.34 `static TAILQ_HEAD (iconv_converter_list, iconv_converter_class) [static]`

Definition at line 70 of file iconv.c.

References iconv_unregister_cspair().

Here is the call graph for this function:



7.17.2 Variable Documentation

- 7.17.2.1 `moduledata_t iconv_mod [static]`

Initial value:

```

{
    "iconv", iconv_mod_handler, NULL
}
  
```

Definition at line 115 of file iconv.c.

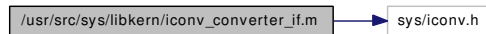
- 7.17.2.2 `struct sysctl_oid* iconv_oid_hook = &sysctl__kern_iconv`

Definition at line 65 of file iconv.c.

7.18 /usr/src/sys/libkern/iconv_converter_if.m File Reference

```
#include <sys/iconv.h>
```

Include dependency graph for iconv_converter_if.m:



Variables

- INTERFACE [iconv_converter](#)

7.18.1 Variable Documentation

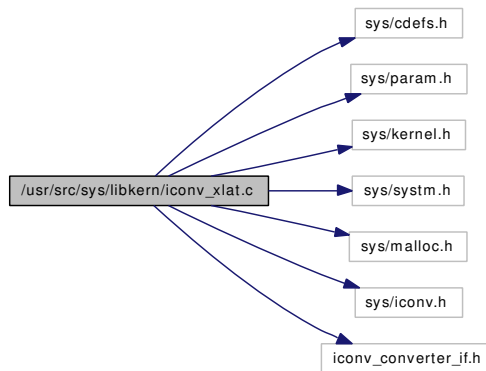
7.18.1.1 INTERFACE [iconv_converter](#)

Definition at line 37 of file `iconv_converter_if.m`.

7.19 /usr/src/sys/libkern/iconv_xlat.c File Reference

```
#include <sys/cdefs.h>
#include <sys/param.h>
#include <sys/kernel.h>
#include <sys/system.h>
#include <sys/malloc.h>
#include <sys/iconv.h>
#include "iconv_converter_if.h"
```

Include dependency graph for iconv_xlat.c:



Data Structures

- struct [iconv_xlat](#)

Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/iconv_xlat.c,v 1.5 2003/09/26 20:26:24 fjoe Exp \$")
- static int [iconv_xlat_open](#) (struct iconv_converter_class *dcp, struct iconv_cspair *csp, struct iconv_cspair *cspf, void **dpp)
- static int [iconv_xlat_close](#) (void *data)
- static int [iconv_xlat_conv](#) (void *d2p, const char **inbuf, size_t *inbytesleft, char **outbuf, size_t *outbytesleft, int convchar, int casetype)
- static const char * [iconv_xlat_name](#) (struct iconv_converter_class *dcp)
- `KICONV_CONVERTER` (xlat, sizeof(struct iconv_xlat))

Variables

- static `kobj_method_t` [iconv_xlat_methods](#) []

7.19.1 Function Documentation

7.19.1.1 `__FBSDID("$FreeBSD: src/sys/libkern/iconv_xlat.c, v 1.5 2003/09/26 20:26:24 fjoe Exp $")`

7.19.1.2 `static int iconv_xlat_close (void * data)` [static]

Definition at line 76 of file iconv_xlat.c.

References iconv_xlat::d_csp.

7.19.1.3 `static int iconv_xlat_conv (void * d2p, const char ** inbuf, size_t * inbytesleft, char ** outbuf, size_t * outbytesleft, int convchar, int casetype)` [static]

Definition at line 86 of file iconv_xlat.c.

References iconv_xlat::d_table, and min.

7.19.1.4 `static const char* iconv_xlat_name (struct iconv_converter_class * dcp)` [static]

Definition at line 115 of file iconv_xlat.c.

7.19.1.5 `static int iconv_xlat_open (struct iconv_converter_class * dcp, struct iconv_cspair * csp, struct iconv_cspair * cspf, void ** dpp)` [static]

Definition at line 62 of file iconv_xlat.c.

References iconv_xlat::d_csp, and iconv_xlat::d_table.

7.19.1.6 `KICONV_CONVERTER (xlat, sizeof(struct iconv_xlat))`

7.19.2 Variable Documentation

7.19.2.1 `kobj_method_t iconv_xlat_methods[]` [static]

Initial value:

```
{
    KOBJMETHOD (iconv_converter_open,      iconv_xlat_open),
    KOBJMETHOD (iconv_converter_close,    iconv_xlat_close),
    KOBJMETHOD (iconv_converter_conv,     iconv_xlat_conv),

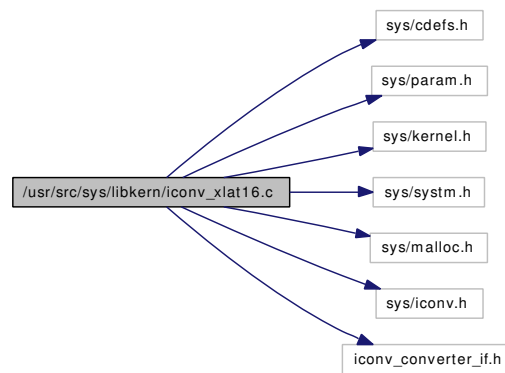
    KOBJMETHOD (iconv_converter_name,     iconv_xlat_name),
    {0, 0}
}
```

Definition at line 120 of file iconv_xlat.c.

7.20 /usr/src/sys/libkern/iconv_xlat16.c File Reference

```
#include <sys/cdefs.h>
#include <sys/param.h>
#include <sys/kernel.h>
#include <sys/system.h>
#include <sys/malloc.h>
#include <sys/iconv.h>
#include "iconv_converter_if.h"
```

Include dependency graph for iconv_xlat16.c:



Data Structures

- struct [iconv_xlat16](#)

Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/iconv_xlat16.c,v 1.3 2005/05/24 15:38:08 imura Exp \$")
- static int [iconv_xlat16_open](#) (struct iconv_converter_class *dcp, struct iconv_cspair *csp, struct iconv_cspair *cspf, void **dpp)
- static int [iconv_xlat16_close](#) (void *data)
- static int [iconv_xlat16_conv](#) (void *d2p, const char **inbuf, size_t *inbytesleft, char **outbuf, size_t *outbytesleft, int convchar, int casetype)
- static const char * [iconv_xlat16_name](#) (struct iconv_converter_class *dcp)
- `KICONV_CONVERTER` (xlat16, sizeof(struct [iconv_xlat16](#)))

Variables

- static `kobj_method_t` [iconv_xlat16_methods](#) []

7.20.1 Function Documentation

7.20.1.1 `__FBSDID("$FreeBSD: src/sys/libkern/iconv_xlat16.c, v 1.3 2005/05/24 15:38:08 imura Exp $")`

7.20.1.2 `static int iconv_xlat16_close (void * data) [static]`

Definition at line 82 of file iconv_xlat16.c.

References iconv_xlat16::d_csp.

7.20.1.3 `static int iconv_xlat16_conv (void * d2p, const char ** inbuf, size_t * inbytesleft, char ** outbuf, size_t * outbytesleft, int convchar, int casetype) [static]`

Definition at line 92 of file iconv_xlat16.c.

References iconv_xlat16::d_table.

7.20.1.4 `static const char* iconv_xlat16_name (struct iconv_converter_class * dcp) [static]`

Definition at line 230 of file iconv_xlat16.c.

7.20.1.5 `static int iconv_xlat16_open (struct iconv_converter_class * dcp, struct iconv_cspair * csp, struct iconv_cspair * cspf, void ** dpp) [static]`

Definition at line 56 of file iconv_xlat16.c.

References iconv_xlat16::d_csp, and iconv_xlat16::d_table.

7.20.1.6 `KICONV_CONVERTER (xlat16, sizeof(struct iconv_xlat16))`

7.20.2 Variable Documentation

7.20.2.1 `kobj_method_t iconv_xlat16_methods[] [static]`

Initial value:

```
{
    KOBJMETHOD (iconv_converter_open,      iconv_xlat16_open),
    KOBJMETHOD (iconv_converter_close,    iconv_xlat16_close),
    KOBJMETHOD (iconv_converter_conv,     iconv_xlat16_conv),

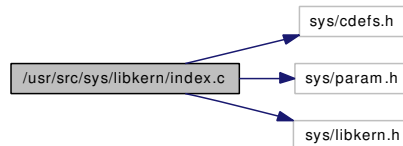
    KOBJMETHOD (iconv_converter_name,     iconv_xlat16_name),
    {0, 0}
}
```

Definition at line 235 of file iconv_xlat16.c.

7.21 /usr/src/sys/libkern/index.c File Reference

```
#include <sys/cdefs.h>
#include <sys/param.h>
#include <sys/libkern.h>
```

Include dependency graph for index.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/index.c,v 1.9 2004/04/07 20:46:10 imp Exp \$")
- `char * index` (`char *p`, `int ch`) `const`

7.21.1 Function Documentation

7.21.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/index. c, v 1.9 2004/04/07 20:46:10 imp Exp \$")

7.21.1.2 `char* index` (`char *p`, `int ch`) `const`

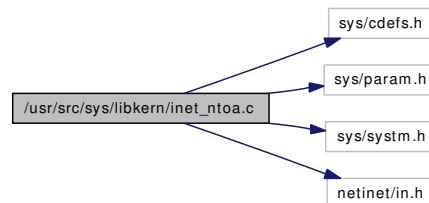
Definition at line 37 of file `index.c`.

Referenced by `fnmatch()`.

7.22 /usr/src/sys/libkern/inet_ntoa.c File Reference

```
#include <sys/cdefs.h>
#include <sys/param.h>
#include <sys/system.h>
#include <netinet/in.h>
```

Include dependency graph for inet_ntoa.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/inet_ntoa.c,v 1.6 2005/01/07 00:24:32 imp Exp \$")
- `char * inet_ntoa` (struct in_addr ina)
- `char * inet_ntoa_r` (struct in_addr ina, char *buf)

7.22.1 Function Documentation

7.22.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/inet_ntoa. c, v 1.6 2005/01/07 00:24:32 imp Exp \$")

7.22.1.2 `char* inet_ntoa` (struct in_addr ina)

Definition at line 39 of file inet_ntoa.c.

7.22.1.3 `char* inet_ntoa_r` (struct in_addr ina, char * buf)

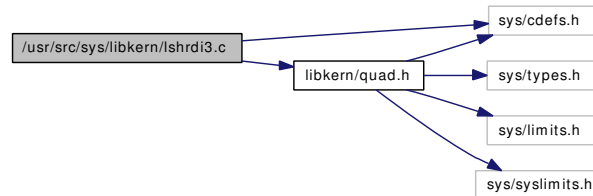
Definition at line 53 of file inet_ntoa.c.

7.23 /usr/src/sys/libkern/lshrdr3.c File Reference

```
#include <sys/cdefs.h>
```

```
#include <libkern/quad.h>
```

Include dependency graph for lshrdr3.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/lshrdr3.c,v 1.8 2004/04/07 20:46:10 imp Exp \$")
- `quad_t __lshrdr3` (`quad_t a`, `qshift_t shift`)

7.23.1 Function Documentation

7.23.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/lshrdr3.c, v 1.8 2004/04/07 20:46:10 imp Exp \$")

7.23.1.2 `quad_t __lshrdr3` (`quad_t a`, `qshift_t shift`)

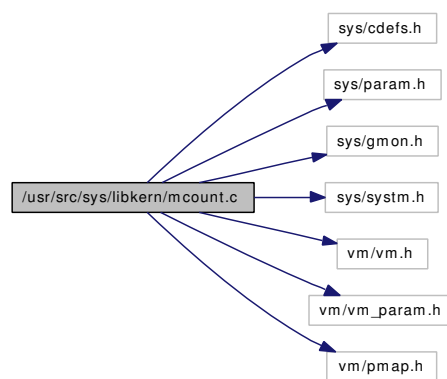
Definition at line 43 of file lshrdr3.c.

References `H`, `L`, `LONG_BITS`, `uu::q`, `QUAD_BITS`, and `uu::ul`.

7.24 /usr/src/sys/libkern/mcount.c File Reference

```
#include <sys/cdefs.h>
#include <sys/param.h>
#include <sys/gmon.h>
#include <sys/system.h>
#include <vm/vm.h>
#include <vm/vm_param.h>
#include <vm/pmap.h>
```

Include dependency graph for mcount.c:



Functions

- [__FBSDID](#) ("\$FreeBSD: src/sys/libkern/mcount.c,v 1.23 2004/08/27 19:42:35 marcel Exp \$")
- [_MCOUNT_DECL](#) (uintfptr_t frompc, uintfptr_t selfpc)

7.24.1 Function Documentation

7.24.1.1 [__FBSDID](#) ("\$FreeBSD: src/sys/libkern/mcount. c, v 1.23 2004/08/27 19:42:35 marcel Exp \$")

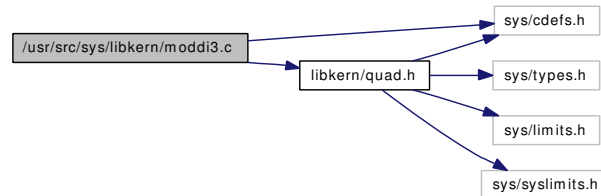
7.24.1.2 [_MCOUNT_DECL](#) (uintfptr_t *frompc*, uintfptr_t *selfpc*)

Definition at line 59 of file mcount.c.

7.25 /usr/src/sys/libkern/moddi3.c File Reference

```
#include <sys/cdefs.h>
#include <libkern/quad.h>
```

Include dependency graph for moddi3.c:



Functions

- `__FBSDDID` ("\$FreeBSD: src/sys/libkern/moddi3.c,v 1.9 2004/04/07 20:46:10 imp Exp \$")
- `quad_t __moddi3` (`quad_t a`, `quad_t b`)

7.25.1 Function Documentation

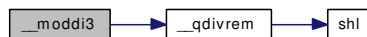
7.25.1.1 `__FBSDDID` ("\$FreeBSD: src/sys/libkern/moddi3.c, v 1.9 2004/04/07 20:46:10 imp Exp \$")

7.25.1.2 `quad_t __moddi3` (`quad_t a`, `quad_t b`)

Definition at line 46 of file `moddi3.c`.

References `__qdivrem()`.

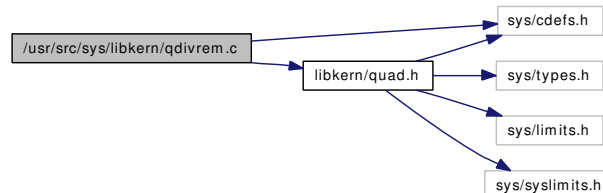
Here is the call graph for this function:



7.26 /usr/src/sys/libkern/qdivrem.c File Reference

```
#include <sys/cdefs.h>
#include <libkern/quad.h>
```

Include dependency graph for qdivrem.c:



Defines

- `#define B` (1 << HALF_BITS)
- `#define COMBINE(a, b)` (((u_long)(a) << HALF_BITS) | (b))

Typedefs

- typedef u_long `digit`

Functions

- `__FBSDDID` ("\$FreeBSD: src/sys/libkern/qdivrem.c,v 1.10 2004/04/07 20:46:10 imp Exp \$")
- static void `shl` (register `digit` *p, register int len, register int sh)
- u_quad_t `__qdivrem` (u_quad_t uq, u_quad_t vq, u_quad_t *arq)

7.26.1 Define Documentation

7.26.1.1 `#define B` (1 << HALF_BITS)

Definition at line 44 of file qdivrem.c.

Referenced by `__qdivrem()`.

7.26.1.2 `#define COMBINE(a, b)` (((u_long)(a) << HALF_BITS) | (b))

Definition at line 47 of file qdivrem.c.

Referenced by `__qdivrem()`.

7.26.2 Typedef Documentation

7.26.2.1 typedef u_long `digit`

Definition at line 53 of file qdivrem.c.

7.26.3 Function Documentation

7.26.3.1 `__FBSDID ("$FreeBSD: src/sys/libkern/qdivrem. c, v 1.10 2004/04/07 20:46:10 imp Exp $")`

7.26.3.2 `u_quad_t __qdivrem (u_quad_t uq, u_quad_t vg, u_quad_t * arq)`

Definition at line 80 of file qdivrem.c.

References B, COMBINE, H, HALF_BITS, HHALF, L, LHALF, uu::q, shl(), uu::ul, uu::uq, and v1.

Referenced by __divdi3(), __moddi3(), __udivdi3(), and __umoddi3().

Here is the call graph for this function:



7.26.3.3 `static void shl (register digit * p, register int len, register int sh)` [static]

Definition at line 62 of file qdivrem.c.

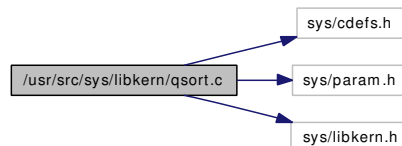
References HALF_BITS, and LHALF.

Referenced by __qdivrem(), and bcmp().

7.27 /usr/src/sys/libkern/qsort.c File Reference

```
#include <sys/cdefs.h>
#include <sys/param.h>
#include <sys/libkern.h>
```

Include dependency graph for qsort.c:



This graph shows which files directly or indirectly include this file:



Defines

- #define `min(a, b)` `(a) < (b) ? (a) : (b)`
- #define `swapcode(TYPE, parmi, parmj, n)`
- #define `SWAPINIT(a, es)`
- #define `swap(a, b)`
- #define `vecswap(a, b, n)` if `((n) > 0)` `swapfunc(a, b, n, swaptyp)`
- #define `CMP(t, x, y)` `(cmp((x), (y)))`
- #define `thunk` `NULL`

Typedefs

- typedef int `cmp_t` `(const void *, const void *)`

Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/qsort.c,v 1.15 2004/07/15 23:58:23 glebius Exp \$")
- static `__inline` char * `med3` (char *, char *, char *, `cmp_t` *, void *)
- static `__inline` void `swapfunc` (char *, char *, int, int)
- static `__inline` char * `med3` (char *a, char *b, char *c, `cmp_t` *cmp, void *thunk __unused)
- void `qsort` (void *a, size_t n, size_t es, `cmp_t` *cmp)

7.27.1 Define Documentation

7.27.1.1 #define `CMP(t, x, y)` `(cmp((x), (y)))`

Definition at line 85 of file `qsort.c`.

Referenced by `med3()`, and `qsort()`.

7.27.1.2 #define min(a, b) (a) < (b) ? (a) : (b)

Definition at line 44 of file qsort.c.

Referenced by iconv_xlat_conv(), and qsort().

7.27.1.3 #define swap(a, b)

Value:

```

if (swaptypes == 0) {
    long t = *(long *) (a);
    *(long *) (a) = *(long *) (b);
    *(long *) (b) = t;
} else
    swapfunc(a, b, es, swaptypes)

```

Definition at line 72 of file qsort.c.

Referenced by qsort().

7.27.1.4 #define swapcode(TYPE, parmi, parmj, n)

Value:

```

{
    long i = (n) / sizeof (TYPE);
    register TYPE *pi = (TYPE *) (parmi);
    register TYPE *pj = (TYPE *) (parmj);
    do {
        register TYPE t = *pi;
        *pi++ = *pj;
        *pj++ = t;
    } while (--i > 0);
}

```

Definition at line 49 of file qsort.c.

Referenced by swapfunc().

7.27.1.5 #define SWAPINIT(a, es)

Value:

```

swaptypes = ((char *)a - (char *)0) % sizeof(long) || \
    es % sizeof(long) ? 2 : es == sizeof(long) ? 0 : 1;

```

Definition at line 60 of file qsort.c.

Referenced by qsort().

7.27.1.6 #define thunk NULL

Definition at line 104 of file qsort.c.

Referenced by med3().

7.27.1.7 #define vecswap(a, b, n) if ((n) > 0) swapfunc(a, b, n, swaptyp)

Definition at line 80 of file qsort.c.

Referenced by qsort().

7.27.2 Typedef Documentation

7.27.2.1 typedef int cmp_t(const void *, const void *)

Definition at line 39 of file qsort.c.

7.27.3 Function Documentation

7.27.3.1 __FBSDID("\$FreeBSD: src/sys/libkern/qsort.c, v 1.15 2004/07/15 23:58:23 glebius Exp \$")

7.27.3.2 static __inline char* med3(char * a, char * b, char * c, cmp_t * cmp, void *think __unused) [static]

Definition at line 89 of file qsort.c.

References CMP, and think.

7.27.3.3 static __inline char* med3(char *, char *, char *, cmp_t *, void *) [static]

Referenced by qsort().

7.27.3.4 void qsort(void * a, size_t n, size_t es, cmp_t * cmp)

Definition at line 106 of file qsort.c.

References CMP, med3(), min, swap, SWAPINIT, and vecswap.

Here is the call graph for this function:



7.27.3.5 static __inline void swapfunc(char *, char *, int, int) [static]

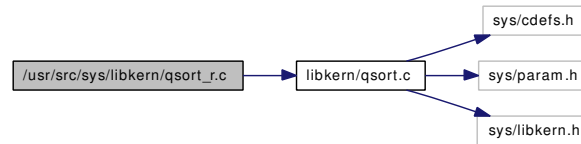
Definition at line 64 of file qsort.c.

References swapcode.

7.28 /usr/src/sys/libkern/qsort_r.c File Reference

```
#include "libkern/qsort.c"
```

Include dependency graph for qsort_r.c:



Defines

- #define [L_AM_QSORT_R](#)

7.28.1 Define Documentation

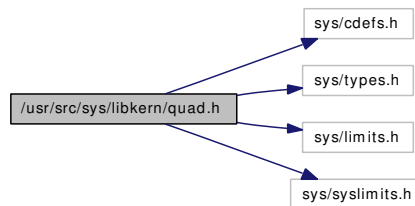
7.28.1.1 #define I_AM_QSORT_R

Definition at line 7 of file `qsort_r.c`.

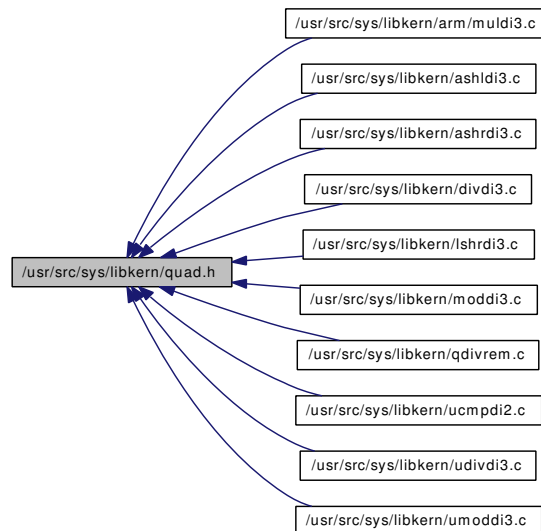
7.29 /usr/src/sys/libkern/quad.h File Reference

```
#include <sys/cdefs.h>
#include <sys/types.h>
#include <sys/limits.h>
#include <sys/syslimits.h>
```

Include dependency graph for quad.h:



This graph shows which files directly or indirectly include this file:



Data Structures

- union [uu](#)

Defines

- #define [H_QUAD_HIGHWORD](#)
- #define [L_QUAD_LOWORD](#)
- #define [QUAD_BITS](#) (sizeof(quad_t) * CHAR_BIT)
- #define [LONG_BITS](#) (sizeof(long) * CHAR_BIT)
- #define [HALF_BITS](#) (sizeof(long) * CHAR_BIT / 2)

- #define **HHALF(x)** ((x) >> HALF_BITS)
- #define **LHALF(x)** ((x) & ((1 << HALF_BITS) - 1))
- #define **LHUP(x)** ((x) << HALF_BITS)

Typedefs

- typedef unsigned int [qshift_t](#)

Functions

- [quad_t __ashldi3](#) (quad_t, [qshift_t](#))
- [quad_t __ashrdi3](#) (quad_t, [qshift_t](#))
- [quad_t __divdi3](#) (quad_t a, quad_t b)
- [quad_t __lshrdi3](#) (quad_t, [qshift_t](#))
- [quad_t __moddi3](#) (quad_t a, quad_t b)
- [u_quad_t __qdivrem](#) (u_quad_t u, u_quad_t v, u_quad_t *rem)
- [u_quad_t __udivdi3](#) (u_quad_t a, u_quad_t b)
- [u_quad_t __umoddi3](#) (u_quad_t a, u_quad_t b)
- [int __ucmpdi2](#) (u_quad_t a, u_quad_t b)

7.29.1 Define Documentation

7.29.1.1 #define H_QUAD_HIGHWORD

Definition at line 75 of file quad.h.

Referenced by [__ashldi3\(\)](#), [__ashrdi3\(\)](#), [__lmulq\(\)](#), [__lshrdi3\(\)](#), [__muldi3\(\)](#), [__qdivrem\(\)](#), and [__ucmpdi2\(\)](#).

7.29.1.2 #define HALF_BITS (sizeof(long) * CHAR_BIT / 2)

Definition at line 85 of file quad.h.

Referenced by [__qdivrem\(\)](#), and [shl\(\)](#).

7.29.1.3 #define HHALF(x) ((x) >> HALF_BITS)

Definition at line 96 of file quad.h.

Referenced by [__lmulq\(\)](#), and [__qdivrem\(\)](#).

7.29.1.4 #define L_QUAD_LOWORD

Definition at line 76 of file quad.h.

Referenced by [__ashldi3\(\)](#), [__ashrdi3\(\)](#), [__lmulq\(\)](#), [__lshrdi3\(\)](#), [__muldi3\(\)](#), [__qdivrem\(\)](#), [__ucmpdi2\(\)](#), and [bcmp\(\)](#).

7.29.1.5 #define LHALF(x) ((x) & ((1 << HALF_BITS) - 1))

Definition at line 97 of file quad.h.

Referenced by `__lmulq()`, `__qdivrem()`, and `shl()`.

7.29.1.6 #define LHUP(x) ((x) << HALF_BITS)

Definition at line 98 of file quad.h.

Referenced by `__lmulq()`.

7.29.1.7 #define LONG_BITS (sizeof(long) * CHAR_BIT)

Definition at line 84 of file quad.h.

Referenced by `__ashldi3()`, `__ashrdi3()`, and `__lshrdi3()`.

7.29.1.8 #define QUAD_BITS (sizeof(quad_t) * CHAR_BIT)

Definition at line 83 of file quad.h.

Referenced by `__ashldi3()`, `__ashrdi3()`, and `__lshrdi3()`.

7.29.2 Typedef Documentation**7.29.2.1 typedef unsigned int [qshift_t](#)**

Definition at line 100 of file quad.h.

7.29.3 Function Documentation**7.29.3.1 quad_t [__ashldi3](#) (quad_t, [qshift_t](#))**

Definition at line 44 of file ashldi3.c.

References `H`, `L`, `LONG_BITS`, `uu::q`, `QUAD_BITS`, and `uu::ul`.

7.29.3.2 quad_t [__ashrdi3](#) (quad_t, [qshift_t](#))

Definition at line 43 of file ashrdi3.c.

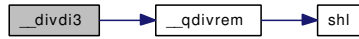
References `H`, `L`, `LONG_BITS`, `uu::q`, `QUAD_BITS`, `uu::sl`, and `uu::ul`.

7.29.3.3 quad_t [__divdi3](#) (quad_t a, quad_t b)

Definition at line 44 of file divdi3.c.

References `__qdivrem()`, and `uu::uq`.

Here is the call graph for this function:



7.29.3.4 quad_t __lshrdi3 (quad_t, qshift_t)

Definition at line 43 of file lshrdi3.c.

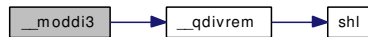
References H, L, LONG_BITS, uu::q, QUAD_BITS, and uu::ul.

7.29.3.5 quad_t __moddi3 (quad_t a, quad_t b)

Definition at line 46 of file moddi3.c.

References __qdivrem().

Here is the call graph for this function:



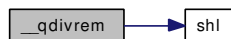
7.29.3.6 u_quad_t __qdivrem (u_quad_t u, u_quad_t v, u_quad_t * rem)

Definition at line 80 of file qdivrem.c.

References B, COMBINE, H, HALF_BITS, HHALF, L, LHALF, uu::q, shl(), uu::ul, uu::uq, and v1.

Referenced by __divdi3(), __moddi3(), __udivdi3(), and __umoddi3().

Here is the call graph for this function:



7.29.3.7 int __ucmpdi2 (u_quad_t a, u_quad_t b)

Definition at line 44 of file ucmpdi2.c.

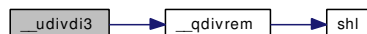
References H, L, uu::ul, and uu::uq.

7.29.3.8 u_quad_t __udivdi3 (u_quad_t a, u_quad_t b)

Definition at line 43 of file udivdi3.c.

References __qdivrem().

Here is the call graph for this function:

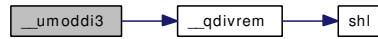


7.29.3.9 u_quad_t __umoddi3 (u_quad_t a, u_quad_t b)

Definition at line 43 of file umoddi3.c.

References `__qdivrem()`.

Here is the call graph for this function:



7.30 /usr/src/sys/libkern/random.c File Reference

```
#include <sys/cdefs.h>
```

```
#include <sys/libkern.h>
```

Include dependency graph for random.c:



Defines

- #define [NSHUFF](#) 50

Functions

- [__FBSDID](#) ("FreeBSD: src/sys/libkern/random.c,v 1.13 2004/04/07 20:46:10 imp Exp \$")
- void [srandom](#) (u_long seed)
- u_long [random](#) ()

Variables

- static u_long [randseed](#) = 937186357

7.30.1 Define Documentation

7.30.1.1 #define NSHUFF 50

Definition at line 37 of file random.c.

Referenced by [srandom\(\)](#).

7.30.2 Function Documentation

7.30.2.1 [__FBSDID](#) ("FreeBSD: src/sys/libkern/random. c, v 1.13 2004/04/07 20:46:10 imp Exp \$")

7.30.2.2 [u_long random](#) ()

Definition at line 58 of file random.c.

References [randseed](#).

Referenced by [srandom\(\)](#).

7.30.2.3 void srandom (u_long seed)

Definition at line 42 of file random.c.

References NSHUFF, random(), and randseed.

Here is the call graph for this function:



7.30.3 Variable Documentation

7.30.3.1 u_long randseed = 937186357 [static]

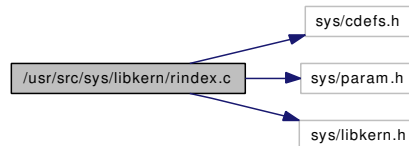
Definition at line 39 of file random.c.

Referenced by random(), and srandom().

7.31 /usr/src/sys/libkern/rindex.c File Reference

```
#include <sys/cdefs.h>
#include <sys/param.h>
#include <sys/libkern.h>
```

Include dependency graph for rindex.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/rindex.c,v 1.11 2005/01/07 00:24:32 imp Exp \$")
- `char * rindex` (`char *p`, `int ch`) `const`

7.31.1 Function Documentation

7.31.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/rindex. c, v 1.11 2005/01/07 00:24:32 imp Exp \$")

7.31.1.2 `char* rindex` (`char *p`, `int ch`) `const`

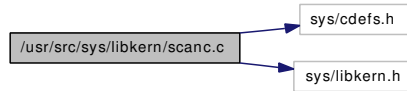
Definition at line 37 of file `rindex.c`.

7.32 /usr/src/sys/libkern/scanc.c File Reference

```
#include <sys/cdefs.h>
```

```
#include <sys/libkern.h>
```

Include dependency graph for scanc.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/scanc.c,v 1.11 2004/04/07 20:46:10 imp Exp \$")
- `int scanc` (`u_int size`, `const u_char *cp`, `table`, `int mask0`)

7.32.1 Function Documentation

7.32.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/scanc. c, v 1.11 2004/04/07 20:46:10 imp Exp \$")

7.32.1.2 `int scanc` (`u_int size`, `const u_char * cp`, `table`, `int mask0`)

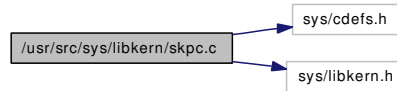
Definition at line 38 of file `scanc.c`.

7.33 /usr/src/sys/libkern/skpc.c File Reference

```
#include <sys/cdefs.h>
```

```
#include <sys/libkern.h>
```

Include dependency graph for skpc.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/skpc.c,v 1.8 2004/04/07 20:46:10 imp Exp \$")
- `int skpc` (int *mask0*, int *size*, char **cp0*)

7.33.1 Function Documentation

7.33.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/skpc. c, v 1.8 2004/04/07 20:46:10 imp Exp \$")

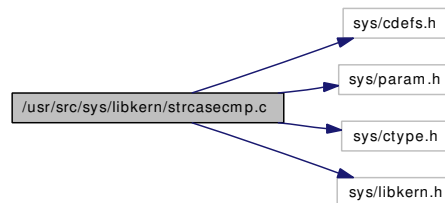
7.33.1.2 `int skpc` (int *mask0*, int *size*, char * *cp0*)

Definition at line 38 of file `skpc.c`.

7.34 /usr/src/sys/libkern/strcasecmp.c File Reference

```
#include <sys/cdefs.h>
#include <sys/param.h>
#include <sys/ctype.h>
#include <sys/libkern.h>
```

Include dependency graph for strcasecmp.c:



Functions

- `__FBSDDID` ("\$FreeBSD: src/sys/libkern/strcasecmp.c,v 1.2 2005/08/08 19:38:00 pjd Exp \$")
- `int strcasecmp` (const char *s1, const char *s2)
- `int strncasecmp` (const char *s1, const char *s2, size_t n)

7.34.1 Function Documentation

7.34.1.1 `__FBSDDID` ("\$FreeBSD: src/sys/libkern/strcasecmp. c, v 1.2 2005/08/08 19:38:00 pjd Exp \$")

7.34.1.2 `int strcasecmp` (const char *s1, const char *s2)

Definition at line 42 of file strcasecmp.c.

7.34.1.3 `int strncasecmp` (const char *s1, const char *s2, size_t n)

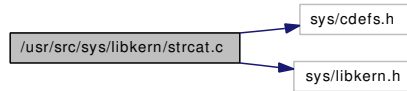
Definition at line 55 of file strcasecmp.c.

7.35 /usr/src/sys/libkern/strcat.c File Reference

```
#include <sys/cdefs.h>
```

```
#include <sys/libkern.h>
```

Include dependency graph for strcat.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/strcat.c,v 1.11 2005/01/07 00:24:32 imp Exp \$")
- `char * strcat` (`char *__restrict s`, `const char *__restrict append`)

7.35.1 Function Documentation

7.35.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/strcat. c, v 1.11 2005/01/07 00:24:32 imp Exp \$")

7.35.1.2 `char* strcat` (`char *__restrict s`, `const char *__restrict append`)

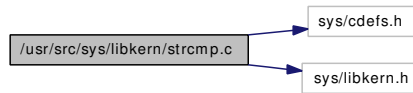
Definition at line 36 of file `strcat.c`.

7.36 /usr/src/sys/libkern/strcmp.c File Reference

```
#include <sys/cdefs.h>
```

```
#include <sys/libkern.h>
```

Include dependency graph for strcmp.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/strcmp.c,v 1.10 2004/04/07 20:46:10 imp Exp \$")
- `int strcmp` (const char *s1, const char *s2)

7.36.1 Function Documentation

7.36.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/strcmp. c, v 1.10 2004/04/07 20:46:10 imp Exp \$")

7.36.1.2 `int strcmp` (const char *s1, const char *s2)

Definition at line 42 of file `strcmp.c`.

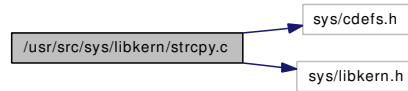
Referenced by `iconv_lookupconv()`, `iconv_lookupcp()`, `iconv_lookuppcs()`, and `iconv_register_cspair()`.

7.37 /usr/src/sys/libkern/strcpy.c File Reference

```
#include <sys/cdefs.h>
```

```
#include <sys/libkern.h>
```

Include dependency graph for strcpy.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/strcpy.c,v 1.12 2005/01/07 00:24:32 imp Exp \$")
- `char * strcpy` (`char *__restrict to`, `const char *__restrict from`)

7.37.1 Function Documentation

7.37.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/strcpy. c, v 1.12 2005/01/07 00:24:32 imp Exp \$")

7.37.1.2 `char* strcpy` (`char *__restrict to`, `const char *__restrict from`)

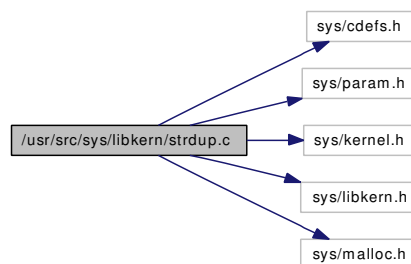
Definition at line 36 of file strcpy.c.

Referenced by `iconv_convstr()`, `iconv_register_cspair()`, and `iconv_sysctl_cslst()`.

7.38 /usr/src/sys/libkern/stdup.c File Reference

```
#include <sys/cdefs.h>
#include <sys/param.h>
#include <sys/kernel.h>
#include <sys/libkern.h>
#include <sys/malloc.h>
```

Include dependency graph for stdup.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/stdup.c,v 1.5 2003/06/11 05:23:04 obrien Exp \$")
- `char * stdup` (const char *string, struct malloc_type *type)

7.38.1 Function Documentation

7.38.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/stdup. c, v 1.5 2003/06/11 05:23:04 obrien Exp \$")

7.38.1.2 `char* stdup` (const char * *string*, struct malloc_type * *type*)

Definition at line 41 of file `stdup.c`.

References `strlen()`.

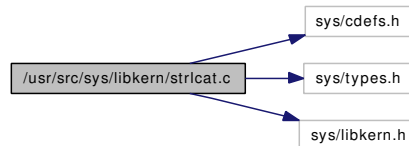
Here is the call graph for this function:



7.39 /usr/src/sys/libkern/strlcat.c File Reference

```
#include <sys/cdefs.h>
#include <sys/types.h>
#include <sys/libkern.h>
```

Include dependency graph for strlcat.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/strlcat.c,v 1.10 2005/02/03 15:51:39 ru Exp \$")
- `size_t strlcat` (char *dst, const char *src, size_t siz)

7.39.1 Function Documentation

7.39.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/strlcat.c, v 1.10 2005/02/03 15:51:39 ru Exp \$")

7.39.1.2 `size_t strlcat` (char *dst, const char *src, size_t siz)

Definition at line 47 of file strlcat.c.

References `strlen()`.

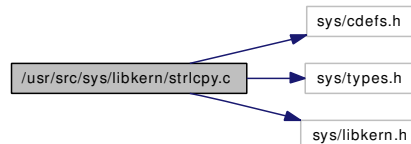
Here is the call graph for this function:



7.40 /usr/src/sys/libkern/strncpy.c File Reference

```
#include <sys/cdefs.h>
#include <sys/types.h>
#include <sys/libkern.h>
```

Include dependency graph for strncpy.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/strncpy.c,v 1.8 2005/02/03 15:51:39 ru Exp \$")
- `size_t strncpy` (`char *dst`, `const char *src`, `size_t siz`)

7.40.1 Function Documentation

7.40.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/strncpy. c, v 1.8 2005/02/03 15:51:39 ru Exp \$")

7.40.1.2 `size_t strncpy` (`char * dst`, `const char * src`, `size_t siz`)

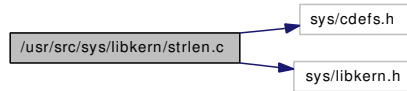
Definition at line 44 of file `strncpy.c`.

7.41 /usr/src/sys/libkern/strlen.c File Reference

```
#include <sys/cdefs.h>
```

```
#include <sys/libkern.h>
```

Include dependency graph for strlen.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/strlen.c,v 1.9 2004/04/07 20:46:10 imp Exp \$")
- `size_t strlen` (`char *str`) `const`

7.41.1 Function Documentation

7.41.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/strlen. c, v 1.9 2004/04/07 20:46:10 imp Exp \$")

7.41.1.2 `size_t strlen` (`char * str`) `const`

Definition at line 36 of file `strlen.c`.

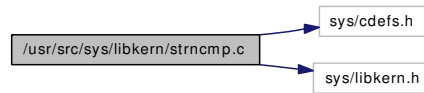
Referenced by `iconv_convstr()`, `iconv_register_cspair()`, `iconv_sysctl_add()`, `iconv_sysctl_drvlist()`, `strdup()`, `strlcat()`, and `strstr()`.

7.42 /usr/src/sys/libkern/strncmp.c File Reference

```
#include <sys/cdefs.h>
```

```
#include <sys/libkern.h>
```

Include dependency graph for strncmp.c:



Functions

- [__FBSDID](#) ("\$FreeBSD: src/sys/libkern/strncmp.c,v 1.11 2005/01/07 00:24:32 imp Exp \$")
- [int strncmp](#) (const char *s1, const char *s2, size_t n)

7.42.1 Function Documentation

7.42.1.1 [__FBSDID](#) ("\$FreeBSD: src/sys/libkern/strncmp. c, v 1.11 2005/01/07 00:24:32 imp Exp \$")

7.42.1.2 [int strncmp](#) (const char * *s1*, const char * *s2*, size_t *n*)

Definition at line 36 of file strncmp.c.

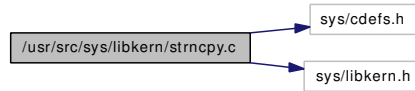
Referenced by strstr().

7.43 /usr/src/sys/libkern/stncpy.c File Reference

```
#include <sys/cdefs.h>
```

```
#include <sys/libkern.h>
```

Include dependency graph for strncpy.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/stncpy.c,v 1.10 2004/04/07 20:46:10 imp Exp \$")
- `char * strncpy` (`char *__restrict dst`, `const char *__restrict src`, `size_t n`)

7.43.1 Function Documentation

7.43.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/stncpy. c, v 1.10 2004/04/07 20:46:10 imp Exp \$")

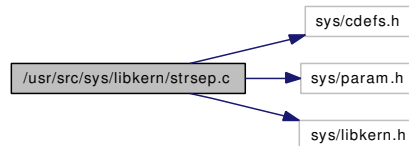
7.43.1.2 `char* strncpy` (`char *__restrict dst`, `const char *__restrict src`, `size_t n`)

Definition at line 43 of file `stncpy.c`.

7.44 /usr/src/sys/libkern/strsep.c File Reference

```
#include <sys/cdefs.h>
#include <sys/param.h>
#include <sys/libkern.h>
```

Include dependency graph for strsep.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/strsep.c,v 1.7 2004/04/07 20:46:10 imp Exp \$")
- `char * strsep` (`char **stringp`, `const char *delim`)

7.44.1 Function Documentation

7.44.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/strsep.c, v 1.7 2004/04/07 20:46:10 imp Exp \$")

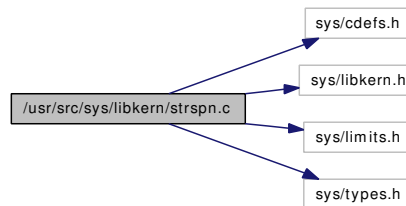
7.44.1.2 `char* strsep` (`char **stringp`, `const char *delim`)

Definition at line 51 of file `strsep.c`.

7.45 /usr/src/sys/libkern/strspn.c File Reference

```
#include <sys/cdefs.h>
#include <sys/libkern.h>
#include <sys/limits.h>
#include <sys/types.h>
```

Include dependency graph for strspn.c:



Defines

- `#define` [IDX\(c\)](#) `((u_char)(c) / LONG_BIT)`
- `#define` [BIT\(c\)](#) `((u_long)1 << ((u_char)(c) % LONG_BIT))`

Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/strspn.c,v 1.2 2005/04/02 18:52:44 das Exp \$")
- `size_t` [strspn](#) (const char *s, const char *charset)

7.45.1 Define Documentation

7.45.1.1 `#define` [BIT\(c\)](#) `((u_long)1 << ((u_char)(c) % LONG_BIT))`

Definition at line 35 of file strspn.c.

Referenced by strspn().

7.45.1.2 `#define` [IDX\(c\)](#) `((u_char)(c) / LONG_BIT)`

Definition at line 34 of file strspn.c.

Referenced by strspn().

7.45.2 Function Documentation

7.45.2.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/strspn. c, v 1.2 2005/04/02 18:52:44 das Exp \$")

7.45.2.2 `size_t` [strspn](#) (const char *s, const char *charset)

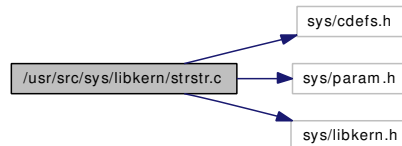
Definition at line 38 of file strspn.c.

References BIT, and IDX.

7.46 /usr/src/sys/libkern/strstr.c File Reference

```
#include <sys/cdefs.h>
#include <sys/param.h>
#include <sys/libkern.h>
```

Include dependency graph for strstr.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/strstr.c,v 1.1 2006/08/12 15:28:39 pjd Exp \$")
- `char * strstr` (const char *s, const char *find)

7.46.1 Function Documentation

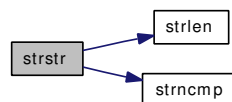
7.46.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/strstr.c, v 1.1 2006/08/12 15:28:39 pjd Exp \$")

7.46.1.2 `char* strstr` (const char * s, const char * *find*)

Definition at line 47 of file strstr.c.

References `strlen()`, and `strncmp()`.

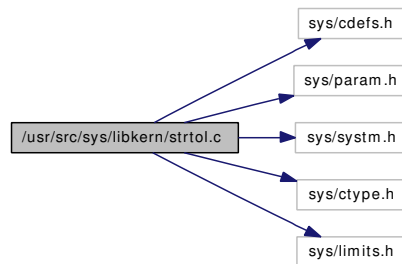
Here is the call graph for this function:



7.47 /usr/src/sys/libkern/strtol.c File Reference

```
#include <sys/cdefs.h>
#include <sys/param.h>
#include <sys/system.h>
#include <sys/ctype.h>
#include <sys/limits.h>
```

Include dependency graph for strtol.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/strtol.c,v 1.8 2004/04/07 20:46:10 imp Exp \$")
- long `strtol` (char **nptr*, char ***endptr*, int *base*) const

7.47.1 Function Documentation

7.47.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/strtol. c, v 1.8 2004/04/07 20:46:10 imp Exp \$")

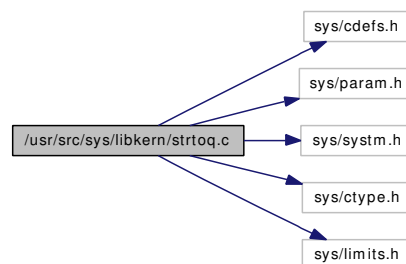
7.47.1.2 long `strtol` (char * *nptr*, char ** *endptr*, int *base*) const

Definition at line 50 of file strtol.c.

7.48 /usr/src/sys/libkern/strtoq.c File Reference

```
#include <sys/cdefs.h>
#include <sys/param.h>
#include <sys/system.h>
#include <sys/ctype.h>
#include <sys/limits.h>
```

Include dependency graph for strtoq.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/strtoq.c,v 1.6 2004/04/07 20:46:10 imp Exp \$")
- `quad_t strtoq` (const char *nptr, char **endptr, int base)

7.48.1 Function Documentation

7.48.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/strtoq.c, v 1.6 2004/04/07 20:46:10 imp Exp \$")

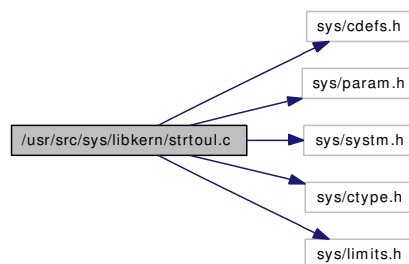
7.48.1.2 `quad_t strtoq` (const char *nptr, char **endptr, int base)

Definition at line 48 of file strtoq.c.

7.49 /usr/src/sys/libkern/strtoul.c File Reference

```
#include <sys/cdefs.h>
#include <sys/param.h>
#include <sys/system.h>
#include <sys/ctype.h>
#include <sys/limits.h>
```

Include dependency graph for strtoul.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/strtoul.c,v 1.6 2004/04/07 20:46:10 imp Exp \$")
- unsigned long `strtoul` (char **nptr*, char ***endptr*, int *base*) const

7.49.1 Function Documentation

7.49.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/strtoul. c, v 1.6 2004/04/07 20:46:10 imp Exp \$")

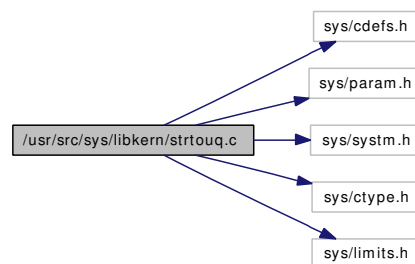
7.49.1.2 unsigned long `strtoul` (char * *nptr*, char ** *endptr*, int *base*) const

Definition at line 50 of file strtoul.c.

7.50 /usr/src/sys/libkern/strtouq.c File Reference

```
#include <sys/cdefs.h>
#include <sys/param.h>
#include <sys/system.h>
#include <sys/ctype.h>
#include <sys/limits.h>
```

Include dependency graph for strtouq.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/strtouq.c,v 1.6 2004/04/07 20:46:10 imp Exp \$")
- `u_quad_t strtouq` (const char *nptr, char **endptr, int base)

7.50.1 Function Documentation

7.50.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/strtouq.c, v 1.6 2004/04/07 20:46:10 imp Exp \$")

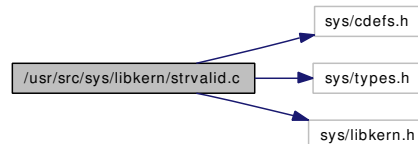
7.50.1.2 `u_quad_t strtouq` (const char *nptr, char **endptr, int base)

Definition at line 48 of file strtouq.c.

7.51 /usr/src/sys/libkern/strvalid.c File Reference

```
#include <sys/cdefs.h>
#include <sys/types.h>
#include <sys/libkern.h>
```

Include dependency graph for strvalid.c:



Functions

- [__FBSDID](#) ("\$FreeBSD: src/sys/libkern/strvalid.c,v 1.5 2005/01/29 13:34:22 rwatson Exp \$")
- [strvalid](#) (const char *buffer, size_t bufferlen)

7.51.1 Function Documentation

7.51.1.1 [__FBSDID](#) ("\$FreeBSD: src/sys/libkern/strvalid. c, v 1.5 2005/01/29 13:34:22 rwatson Exp \$")

7.51.1.2 [int strvalid](#) (const char * *buffer*, size_t *bufferlen*)

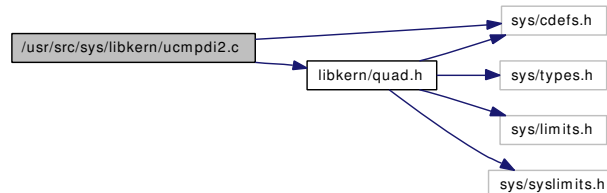
Definition at line 43 of file strvalid.c.

7.52 /usr/src/sys/libkern/ucmpdi2.c File Reference

```
#include <sys/cdefs.h>
```

```
#include <libkern/quad.h>
```

Include dependency graph for ucmpdi2.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/ucmpdi2.c,v 1.10 2004/04/07 20:46:10 imp Exp \$")
- `int __ucmpdi2` (`u_quad_t a`, `u_quad_t b`)

7.52.1 Function Documentation

7.52.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/ucmpdi2.c, v 1.10 2004/04/07 20:46:10 imp Exp \$")

7.52.1.2 `int __ucmpdi2` (`u_quad_t a`, `u_quad_t b`)

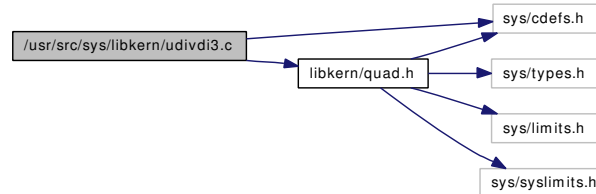
Definition at line 44 of file ucmpdi2.c.

References `H`, `L`, `uu::ul`, and `uu::uq`.

7.53 /usr/src/sys/libkern/udivdi3.c File Reference

```
#include <sys/cdefs.h>
#include <libkern/quad.h>
```

Include dependency graph for udivdi3.c:



Functions

- `__FBSDDID` ("\$FreeBSD: src/sys/libkern/udivdi3.c,v 1.8 2004/04/07 20:46:10 imp Exp \$")
- `u_quad_t __udivdi3` (`u_quad_t a`, `u_quad_t b`)

7.53.1 Function Documentation

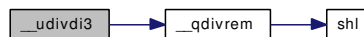
7.53.1.1 `__FBSDDID` ("\$FreeBSD: src/sys/libkern/udivdi3. c, v 1.8 2004/04/07 20:46:10 imp Exp \$")

7.53.1.2 `u_quad_t __udivdi3` (`u_quad_t a`, `u_quad_t b`)

Definition at line 43 of file `udivdi3.c`.

References `__qdivrem()`.

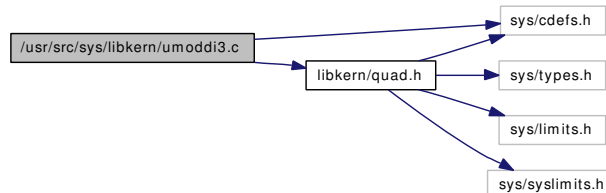
Here is the call graph for this function:



7.54 /usr/src/sys/libkern/umoddi3.c File Reference

```
#include <sys/cdefs.h>
#include <libkern/quad.h>
```

Include dependency graph for umoddi3.c:



Functions

- `__FBSDID` ("\$FreeBSD: src/sys/libkern/umoddi3.c,v 1.8 2004/04/07 20:46:10 imp Exp \$")
- `u_quad_t __umoddi3` (`u_quad_t a`, `u_quad_t b`)

7.54.1 Function Documentation

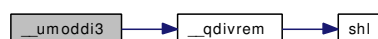
7.54.1.1 `__FBSDID` ("\$FreeBSD: src/sys/libkern/umoddi3.c, v 1.8 2004/04/07 20:46:10 imp Exp \$")

7.54.1.2 `u_quad_t __umoddi3` (`u_quad_t a`, `u_quad_t b`)

Definition at line 43 of file `umoddi3.c`.

References `__qdivrem()`.

Here is the call graph for this function:



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