NAME

```
ffs, ffsl, ffsll - find first bit set in a word
```

LIBRARY

```
Standard C library (libc, -lc)
```

SYNOPSIS

```
#include <strings.h>
int ffs(int i);
#include <string.h>
int ffsl(long i);
int ffsl(long long i);
```

Feature Test Macro Requirements for glibc (see **feature_test_macros**(7)):

```
ffs():

Since glibc 2.12:

_XOPEN_SOURCE >= 700

||! (_POSIX_C_SOURCE >= 200809L)

||/* glibc >= 2.19: */_DEFAULT_SOURCE

||/* glibc <= 2.19: */_BSD_SOURCE ||_SVID_SOURCE

Before glibc 2.12:

none

ffsl(), ffsl():

Since glibc 2.27:

_DEFAULT_SOURCE

Before glibc 2.27:

_GNU_SOURCE
```

DESCRIPTION

The **ffs**() function returns the position of the first (least significant) bit set in the word i. The least significant bit is position 1 and the most significant position is, for example, 32 or 64. The functions **ffsl**() and **ffsl**() do the same but take arguments of possibly different size.

RETURN VALUE

These functions return the position of the first bit set, or 0 if no bits are set in i.

ATTRIBUTES

For an explanation of the terms used in this section, see **attributes**(7).

Interface	Attribute	Value
ffs(), ffsl(), ffsll()	Thread safety	MT-Safe

STANDARDS

```
ffs(): POSIX.1-2001, POSIX.1-2008, 4.3BSD.
```

The ffsl() and ffsll() functions are glibc extensions.

NOTES

BSD systems have a prototype in < string .h>.

SEE ALSO

memchr(3)