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### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'ffs.3'***

**\$ man ffs.3**

FFS(3)                      Linux Programmer's Manual                      FFS(3)

NAME

ffs, ffs1, ffs11 - find first bit set in a word

SYNOPSIS

```
#include <strings.h>
```

```
int ffs(int i);
```

```
#include <string.h>
```

```
int ffs1(long i);
```

```
int ffs11(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 since 2.19: */ _DEFAULT_SOURCE
```

```
|| /* Glibc versions <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE
```

Before glibc 2.12:

none

ffs1(), ffs11():

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 `ffsll()` 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 ?

????????????????????????????????????????????????????????

## CONFORMING TO

`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\(3\)](#)

## COLOPHON

This page is part of release 5.10 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at <https://www.kernel.org/doc/man-pages/>.

GNU                                      2020-11-01                                      FFS(3)