

NAME

memmem – locate a substring

LIBRARY

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

SYNOPSIS

```
#define _GNU_SOURCE      /* See feature_test_macros(7) */
#include <string.h>

void *memmem(const void haystack[.haystacklen], size_t haystacklen,
             const void needle[.needlelen], size_t needlelen);
```

DESCRIPTION

The **memmem()** function finds the start of the first occurrence of the substring *needle* of length *needlelen* in the memory area *haystack* of length *haystacklen*.

RETURN VALUE

The **memmem()** function returns a pointer to the beginning of the substring, or NULL if the substring is not found.

ATTRIBUTES

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

Interface	Attribute	Value
memmem()	Thread safety	MT-Safe

STANDARDS

This function is not specified in POSIX.1, but is present on a number of other systems, including: musl libc 0.9.7; FreeBSD 6.0, OpenBSD 5.4, NetBSD, and Illumos.

BUGS

In glibc 2.0, if *needle* is empty, **memmem()** returns a pointer to the last byte of *haystack*. This is fixed in glibc 2.1.

SEE ALSO

bstring(3), **strstr(3)**