

**NAME**

memmem - locate a substring

**SYNOPSIS**

```
#define _GNU_SOURCE /* See feature\_test\_macros\(7\) */
#include <string.h>

void *memmem(const void *haystack, size_t haystacklen,
             const void *needle, 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**

**Multithreading (see [pthreads\(7\)](#))**

The **memmem()** function is thread-safe.

**CONFORMING TO**

This function is a GNU extension.

**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**

[strstr\(3\)](#)

**COLOPHON**

This page is part of release 3.74 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 <http://www.kernel.org/doc/man-pages/>.