

**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**

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

Interface	Attribute	Value
<b>memmem()</b>	Thread safety	MT-Safe

**CONFORMING TO**

This function is not specified in POSIX.1, but is present on a number of other systems.

**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)**

**COLOPHON**

This page is part of release 5.02 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/>.