



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

**C:\>man memchr.3**

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

### NAME

memchr, memrchr, rawmemchr - scan memory for a character

### SYNOPSIS

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

```
void *memchr(const void *s, int c, size_t n);
```

```
void *memrchr(const void *s, int c, size_t n);
```

```
void *rawmemchr(const void *s, int c);
```

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

```
memrchr(), rawmemchr(): _GNU_SOURCE
```

### DESCRIPTION

The `memchr()` function scans the initial `n` bytes of the memory area pointed to by `s` for the first instance of `c`. Both `c` and the bytes of the memory area pointed to by `s` are interpreted as unsigned char.

The `memrchr()` function is like the `memchr()` function, except that it searches backward from the end of the `n` bytes pointed to by `s` instead of forward from the beginning.

The `rawmemchr()` function is similar to `memchr()`: it assumes (i.e., the programmer knows for certain) that an instance of `c` lies somewhere in the memory area starting at the location pointed to by `s`, and so performs an optimized search for `c` (i.e., no use of a count argument to limit the range of the search). If an instance of `c` is not found, the results are unpredictable. The following call is a fast means of

locating a string's terminating null byte:

```
char *p = rawmemchr(s, '\0');
```

## RETURN VALUE

The memchr() and memrchr() functions return a pointer to the matching byte or NULL if the character does not occur in the given memory area.

The rawmemchr() function returns a pointer to the matching byte, if one is found.

If no matching byte is found, the result is unspecified.

## VERSIONS

rawmemchr() first appeared in glibc in version 2.1.

memrchr() first appeared in glibc in version 2.2.

## ATTRIBUTES

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

??

?Interface                   ? Attribute   ? Value   ?

??

?memchr(), memrchr(), rawmemchr() ? Thread safety ? MT-Safe ?

??

## CONFORMING TO

memchr(): POSIX.1-2001, POSIX.1-2008, C89, C99, SVr4, 4.3BSD.

The memrchr() function is a GNU extension, available since glibc 2.1.91.

The rawmemchr() function is a GNU extension, available since glibc 2.1.

## SEE ALSO

bstring(3), ffs(3), index(3), memmem(3), rindex(3), strchr(3), strpbrk(3), strchr(3), strsep(3), strspn(3), strstr(3), wmemchr(3)

## COLOPHON

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