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

\$ 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 ?

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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)`, `strrchr(3)`,
`strsep(3)`, `strspn(3)`, `strstr(3)`, `wmemchr(3)`

COLOPHON

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