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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)):

memchr(), 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).

attributes(7).

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?Interface ? Attribute ? Value ?

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

#### COLOPHON

This page is part of release 5.10 of the Linux man-pages project. A

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