

**NAME**

strchr, strrchr, strchrnul - locate character in string

**SYNOPSIS**

```
#include <string.h>

char *strchr(const char *s, int c);

char *strrchr(const char *s, int c);

#define _GNU_SOURCE /* See feature_test_macros(7) */
#include <string.h>

char *strchrnul(const char *s, int c);
```

**DESCRIPTION**

The **strchr()** function returns a pointer to the first occurrence of the character *c* in the string *s*.

The **strrchr()** function returns a pointer to the last occurrence of the character *c* in the string *s*.

The **strchrnul()** function is like **strchr()** except that if *c* is not found in *s*, then it returns a pointer to the null byte at the end of *s*, rather than NULL.

Here "character" means "byte"; these functions do not work with wide or multibyte characters.

**RETURN VALUE**

The **strchr()** and **strrchr()** functions return a pointer to the matched character or NULL if the character is not found. The terminating null byte is considered part of the string, so that if *c* is specified as '\0', these functions return a pointer to the terminator.

The **strchrnul()** function returns a pointer to the matched character, or a pointer to the null byte at the end of *s* (i.e., *s+strlen(s)*) if the character is not found.

**VERSIONS**

**strchrnul()** first appeared in glibc in version 2.1.1.

**ATTRIBUTES**

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

Interface	Attribute	Value
<b>strchr()</b> , <b>strrchr()</b> , <b>strchrnul()</b>	Thread safety	MT-Safe

**CONFORMING TO**

**strchr()**, **strrchr()**: POSIX.1-2001, POSIX.1-2008, C89, C99, SVr4, 4.3BSD.

**strchrnul()** is a GNU extension.

**SEE ALSO**

[index\(3\)](#), [memchr\(3\)](#), [rindex\(3\)](#), [string\(3\)](#), [strlen\(3\)](#), [strpbrk\(3\)](#), [strsep\(3\)](#), [strspn\(3\)](#), [strstr\(3\)](#), [strtok\(3\)](#), [wcschr\(3\)](#), [wcsrchr\(3\)](#)

**COLOPHON**

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