

**NAME**

strchr, strchr, 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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