NAME

strstr, **strcasestr**, **strnstr** - locate a substring in a string

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

#include <string.h>

char *
strstr(*const char *big*, *const char *little*);

char *
strcasestr(*const char *big*, *const char *little*);

char *
strnstr(*const char *big*, *const char *little*, *size_t len*);

#include <string.h>
#include <xlocale.h>

char *
strcasestr_l(*const char *big*, *const char *little*, *locale_t loc*);

DESCRIPTION

The **strstr**() function locates the first occurrence of the null-terminated string *little* in the null-terminated string *big*.

The **strcasestr**() function is similar to **strstr**(), but ignores the case of both strings.

The **strcasestr_l**() function does the same as **strcasestr**() but takes an explicit locale rather than using the current locale.

The **strnstr**() function locates the first occurrence of the null-terminated string *little* in the string *big*, where not more than *len* characters are searched. Characters that appear after a '\0' character are not searched. Since the **strnstr**() function is a FreeBSD specific API, it should only be used when portability is not a concern.

RETURN VALUES

If *little* is an empty string, *big* is returned; if *little* occurs nowhere in *big*, NULL is returned; otherwise a

pointer to the first character of the first occurrence of *little* is returned.

EXAMPLES
The following sets the pointer *ptr* to the "Bar Baz" portion of *largestring*:

```
const char *largestring = "Foo Bar Baz";
const char *smallstring = "Bar";
char *ptr;

ptr = strstr(largestring, smallstring);
```

The following sets the pointer *ptr* to NULL, because only the first 4 characters of *largestring* are searched:

```
const char *largestring = "Foo Bar Baz";
const char *smallstring = "Bar";
char *ptr;

ptr = strnstr(largestring, smallstring, 4);
```

SEE ALSO
memchr(3), memmem(3), strchr(3), strcspn(3), strpbrk(3), strrchr(3), strsep(3), strspn(3), strtok(3), wcsstr(3)

STANDARDS
The **strstr**() function conforms to ISO/IEC 9899:1990 ("ISO C90").

HISTORY
The **strnstr**() function was introduced by FreeBSD 4.5 and is non-standard.