strdup(3)

NAME

strdup(3)

```
strdup, strndupa, strndupa - duplicate a string
```

LIBRARY

```
Standard C library (libc, –lc)
```

SYNOPSIS

```
#include <string.h>
    char *strdup(const char *s);
    char *strndup(const char s[.n], size_t n);
    char *strdupa(const char *s);
    char *strndupa(const char s[.n], size_t n);
Feature Test Macro Requirements for glibc (see feature_test_macros(7)):
    strdup():
      _XOPEN_SOURCE >= 500
         || /* Since glibc 2.12: */ _POSIX_C_SOURCE >= 200809L
         | | /* glibc <= 2.19: */ _BSD_SOURCE | _SVID_SOURCE
    strndup():
      Since glibc 2.10:
         _{POSIX\_C\_SOURCE} >= 200809L
      Before glibc 2.10:
         _GNU_SOURCE
    strdupa(), strndupa():
      _GNU_SOURCE
```

DESCRIPTION

The **strdup**() function returns a pointer to a new string which is a duplicate of the string s. Memory for the new string is obtained with **malloc**(3), and can be freed with **free**(3).

The **strndup**() function is similar, but copies at most n bytes. If s is longer than n, only n bytes are copied, and a terminating null byte ('\0') is added.

strdupa() and **strndupa**() are similar, but use **alloca**(3) to allocate the buffer.

RETURN VALUE

On success, the **strdup**() function returns a pointer to the duplicated string. It returns NULL if insufficient memory was available, with *errno* set to indicate the error.

ERRORS

ENOMEM

Insufficient memory available to allocate duplicate string.

ATTRIBUTES

For an explanation of the terms used in this section, see **attributes**(7).

Interface	Attribute	Value
strdup(), strndup(), strndupa()	Thread safety	MT-Safe

STANDARDS

strdup() conforms to SVr4, 4.3BSD, POSIX.1-2001. **strndup**() conforms to POSIX.1-2008. **strdupa**() and **strndupa**() are GNU extensions.

SEE ALSO

```
alloca(3), calloc(3), free(3), malloc(3), realloc(3), string(3), wcsdup(3)
```