



Rocky Enterprise Linux 9.2 Manual Pages on command 'strndup.3'

\$ man strndup.3

STRDUP(3) Linux Programmer's Manual STRDUP(3)

NAME

strdup, strndup, strdupa, strndupa - duplicate a string

SYNOPSIS

```
#include <string.h>
```

```
char *strdup(const char *s);
```

```
char *strndup(const char *s, size_t n);
```

```
char *strdupa(const char *s);
```

```
char *strndupa(const char *s, 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 versions <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE
```

strndup():

Since glibc 2.10:

```
_POSIX_C_SOURCE >= 200809L
```

Before glibc 2.10:

`_GNU_SOURCE`

`strdup()`, `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. They are available only when using the GNU GCC suite, and suffer from the same limitations described in `alloca(3)`.

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 cause of 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).

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?Interface ? Attribute ? Value ?

??

?`strdup()`, `strndup()`, `strdupa()`, ? Thread safety ? MT-Safe ?

?`strndupa()` ? ? ?

??

CONFORMING TO

`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)`

COLOPHON

This page is part of release 5.10 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at <https://www.kernel.org/doc/man-pages/>.

GNU

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