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

\$ man strdup.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
```

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. 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).

?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

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