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():
    _SVID_SOURCE || _BSD_SOURCE || _XOPEN_SOURCE >= 500 ||
    _XOPEN_SOURCE && _XOPEN_SOURCE_EXTENDED
    || /* Since glibc 2.12: */ _POSIX_C_SOURCE >= 200809L
strndup():
    Since glibc 2.10:
        _POSIX_C_SOURCE >= 200809L || _XOPEN_SOURCE >= 700
    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.

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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