



Linux Ubuntu 26.04 Manual Pages on command 'asprintf.3'

\$ man asprintf.3

asprintf(3) Library Functions Manual asprintf(3)

NAME

asprintf, vasprintf - print to allocated string

LIBRARY

Standard C library (libc, -lc)

SYNOPSIS

```
#define _GNU_SOURCE      /* See feature_test_macros(7) */
#include <stdio.h>

int asprintf(char **restrict strp, const char *restrict fmt, ...);
int vasprintf(char **restrict strp, const char *restrict fmt,
              va_list ap);
```

DESCRIPTION

The functions `asprintf()` and `vasprintf()` are analogs of `sprintf(3)` and `vsprintf(3)`, except that they allocate a string large enough to hold the output including the terminating null byte (`'\0'`), and return a pointer to it via the first argument. This pointer should be passed to `free(3)` to release the allocated storage when it is no longer needed.

RETURN VALUE

When successful, these functions return the number of bytes printed, just like `sprintf(3)`. On error, `-1` is returned, `errno` is set to indicate the error, and the contents of `strp` are undefined.

ERRORS

See `sprintf(3)` and `malloc(3)`.

ATTRIBUTES

[illegible]

The FreeBSD implementation sets `strp` to `NULL` on error.

GNU, BSD.

```
free(3), malloc(3), printf(3)
```

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