#### **NAME**

asprintf, vasprintf - print to allocated string

## **SYNOPSIS**

```
int asprintf(char **strp, const char * fmt, ...);
```

int vasprintf(char \*\*strp, const char \* 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). If memory allocation wasn't possible, or some other error occurs, these functions will return -1, and the contents of *strp* are undefined.

## **ATTRIBUTES**

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

Interface	Attribute	Value
<pre>asprintf(), vasprintf()</pre>	Thread safety	MT-Safe locale

#### **CONFORMING TO**

These functions are GNU extensions, not in C or POSIX. They are also available under \*BSD. The Free-BSD implementation sets *strp* to NULL on error.

## **SEE ALSO**

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

#### **COLOPHON**

This page is part of release 4.09 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/.