

NAME

`curl_maprintf`, `curl_mfprintf`, `curl_mpprintf`, `curl_msprintf`, `curl_msnprintf`, `curl_msprintf` `curl_mvaprintf`, `curl_mvfprintf`,
`curl_mvprintf`, `curl_mvsprintf`, `curl_mvsprintf` - formatted output conversion

SYNOPSIS

```
#include <curl/mprintf.h>
```

```
int curl_mpprintf(const char *format, ...);
int curl_mfprintf(FILE *fd, const char *format, ...);
int curl_msprintf(char *buffer, const char *format, ...);
int curl_msnprintf(char *buffer, size_t maxlen, const char *format, ...);
int curl_mvprintf(const char *format, va_list args);
int curl_mvfprintf(FILE *fd, const char *format, va_list args);
int curl_mvsprintf(char *buffer, const char *format, va_list args);
int curl_mvsprintf(char *buffer, size_t maxlen, const char *format, va_list args);
char *curl_mapprintf(const char *format, ...);
char *curl_mvaprintf(const char *format, va_list args);
```

DESCRIPTION

These are all functions that produces output according to a format string and given arguments. These are mostly clones of the well-known C-style functions and there will be no detailed explanation of all available formatting rules and usage here.

See this table for notable exceptions.

curl_mpprintf()

Normal printf() clone.

curl_mfprintf()

Normal fprintf() clone.

curl_msprintf()

Normal sprintf() clone.

curl_msnprintf()

snprintf() clone. Many systems don't have this. It is just like **sprintf** but with an extra argument after the buffer that specifies the length of the target buffer.

curl_mvprintf()

Normal vprintf() clone.

curl_mvfprintf()

Normal vfprintf() clone.

curl_mvsprintf()

Normal vsprintf() clone.

curl_mvsprintf()

vsnprintf() clone. Many systems don't have this. It is just like **vsprintf** but with an extra argument after the buffer that specifies the length of the target buffer.

curl_mapprintf()

Like printf() but returns the output string as a malloc()ed string. The returned string must be free()ed by the receiver.

curl_mvaprintf()

Like curl_mapprintf() but takes a va_list pointer argument instead of a variable amount of arguments.

To easily use all these cloned functions instead of the normal ones, #define _MPRINTF_REPLACE before you include the <curl/mprintf.h> file. Then all the normal names like printf, fprintf, sprintf etc will use the curl-functions instead.

RETURN VALUE

The **curl_maprintf** and **curl_mvaprintf** functions return a pointer to a newly allocated string, or NULL if it failed.

All other functions return the number of character they actually outputed.

SEE ALSO

printf(3), sprintf(3), fprintf(3), vprintf(3)