NAME

curl_maprintf, curl_mfprintf, curl_mprintf, curl_msnprintf, curl_msprintf curl_mvaprintf, curl_mvfprintf, curl_mvprintf, curl_mvsnprintf, curl_mvsprintf - formatted output conversion

SYNOPSIS

#include <curl/mprintf.h>

int curl_mprintf(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** *maxlength*, **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_mvsnprintf(char * *buffer*, **size_t** *maxlength*, **const char *** *format*, **va_list** *args*);
char *curl_maprintf(const char * *format*, **...);**
char *curl_mvaprintf(const char * *format*, **va_list** *args*);

DESCRIPTION

These are all functions that produce 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_mprintf()
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_mvsnprintf()
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_maprintf()
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_maprintf() 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.

AVAILABILITY

These function will be removed from the public libcurl API in a near future. They will instead be made "available" by source code access only, and then as curlx_-prefixed functions. See lib/README.curlx for further details.

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 characters they actually outputted.

SEE ALSO

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