

NAME

curl_easy_setopt – set options for a curl easy handle

SYNOPSIS

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

```
CURLcode curl_easy_setopt(CURL *handle, CURLOPToption option, parameter);
```

DESCRIPTION

curl_easy_setopt(3) is used to tell libcurl how to behave. By setting the appropriate options, the application can change libcurl's behavior. All options are set with an *option* followed by a *parameter*. That parameter can be a **long**, a **function pointer**, an **object pointer** or a **curl_off_t**, depending on what the specific option expects. Read this manual carefully as bad input values may cause libcurl to behave badly! You can only set one option in each function call. A typical application uses many *curl_easy_setopt(3)* calls in the setup phase.

Options set with this function call are valid for all forthcoming transfers performed using this *handle*. The options are not in any way reset between transfers, so if you want subsequent transfers with different options, you must change them between the transfers. You can optionally reset all options back to internal default with *curl_easy_reset(3)*.

Strings passed to libcurl as 'char *' arguments, are copied by the library; thus the string storage associated to the pointer argument may be overwritten after *curl_easy_setopt(3)* returns. The only exception to this rule is really *CURLOPT_POSTFIELDS(3)*, but the alternative that copies the string *CURLOPT_COPY_POSTFIELDS(3)* has some usage characteristics you need to read up on.

The order in which the options are set does not matter.

Before version 7.17.0, strings were not copied. Instead the user was forced keep them available until libcurl no longer needed them.

The *handle* is the return code from a *curl_easy_init(3)* or *curl_easy_duphandle(3)* call.

BEHAVIOR OPTIONS

CURLOPT_VERBOSE

Display verbose information. See *CURLOPT_VERBOSE(3)*

CURLOPT_HEADER

Include the header in the body output. See *CURLOPT_HEADER(3)*

CURLOPT_NOPROGRESS

Shut off the progress meter. See *CURLOPT_NOPROGRESS(3)*

CURLOPT_NOSIGNAL

Do not install signal handlers. See *CURLOPT_NOSIGNAL(3)*

CURLOPT_WILDCARDMATCH

Transfer multiple files according to a file name pattern. See *CURLOPT_WILDCARDMATCH(3)*

CALLBACK OPTIONS

CURLOPT_WRITEFUNCTION

Callback for writing data. See *CURLOPT_WRITEFUNCTION(3)*

CURLOPT_WRITEDATA

Data pointer to pass to the write callback. See *CURLOPT_WRITEDATA(3)*

CURLOPT_READFUNCTION

Callback for reading data. See *CURLOPT_READFUNCTION(3)*

- CURLOPT_READDATA**
Data pointer to pass to the read callback. See *CURLOPT_READDATA(3)*
- CURLOPT_IOCTLFUNCTION**
Callback for I/O operations. See *CURLOPT_IOCTLFUNCTION(3)*
- CURLOPT_IOCTLDATA**
Data pointer to pass to the I/O callback. See *CURLOPT_IOCTLDATA(3)*
- CURLOPT_SEEKFUNCTION**
Callback for seek operations. See *CURLOPT_SEEKFUNCTION(3)*
- CURLOPT_SEEKDATA**
Data pointer to pass to the seek callback. See *CURLOPT_SEEKDATA(3)*
- CURLOPT_SOCKOPTFUNCTION**
Callback for sockopt operations. See *CURLOPT_SOCKOPTFUNCTION(3)*
- CURLOPT_SOCKOPTDATA**
Data pointer to pass to the sockopt callback. See *CURLOPT_SOCKOPTDATA(3)*
- CURLOPT_OPEN_SOCKETFUNCTION**
Callback for socket creation. See *CURLOPT_OPEN_SOCKETFUNCTION(3)*
- CURLOPT_OPEN_SOCKETDATA**
Data pointer to pass to the open socket callback. See *CURLOPT_OPEN_SOCKETDATA(3)*
- CURLOPT_CLOSE_SOCKETFUNCTION**
Callback for closing socket. See *CURLOPT_CLOSE_SOCKETFUNCTION(3)*
- CURLOPT_CLOSE_SOCKETDATA**
Data pointer to pass to the close socket callback. See *CURLOPT_CLOSE_SOCKETDATA(3)*
- CURLOPT_PROGRESSFUNCTION**
OBSOLETE callback for progress meter. See *CURLOPT_PROGRESSFUNCTION(3)*
- CURLOPT_PROGRESSDATA**
Data pointer to pass to the progress meter callback. See *CURLOPT_PROGRESSDATA(3)*
- CURLOPT_XFERINFOFUNCTION**
Callback for progress meter. See *CURLOPT_XFERINFOFUNCTION(3)*
- CURLOPT_XFERINFODATA**
Data pointer to pass to the progress meter callback. See *CURLOPT_XFERINFODATA(3)*
- CURLOPT_HEADERFUNCTION**
Callback for writing received headers. See *CURLOPT_HEADERFUNCTION(3)*
- CURLOPT_HEADERDATA**
Data pointer to pass to the header callback. See *CURLOPT_HEADERDATA(3)*
- CURLOPT_DEBUGFUNCTION**
Callback for debug information. See *CURLOPT_DEBUGFUNCTION(3)*
- CURLOPT_DEBUGDATA**
Data pointer to pass to the debug callback. See *CURLOPT_DEBUGDATA(3)*
- CURLOPT_SSL_CTX_FUNCTION**
Callback for SSL context logic. See *CURLOPT_SSL_CTX_FUNCTION(3)*
- CURLOPT_SSL_CTX_DATA**
Data pointer to pass to the SSL context callback. See *CURLOPT_SSL_CTX_DATA(3)*
- CURLOPT_CONV_TO_NETWORK_FUNCTION**
Callback for code base conversion. See *CURLOPT_CONV_TO_NETWORK_FUNCTION(3)*

CURLOPT_CONV_FROM_NETWORK_FUNCTION

Callback for code base conversion. See *CURLOPT_CONV_FROM_NETWORK_FUNCTION(3)*

CURLOPT_CONV_FROM_UTF8_FUNCTION

Callback for code base conversion. See *CURLOPT_CONV_FROM_UTF8_FUNCTION(3)*

CURLOPT_INTERLEAVEFUNCTION

Callback for RTSP interleaved data. See *CURLOPT_INTERLEAVEFUNCTION(3)*

CURLOPT_INTERLEAVEDATA

Data pointer to pass to the RTSP interleave callback. See *CURLOPT_INTERLEAVEDATA(3)*

CURLOPT_CHUNK_BGN_FUNCTION

Callback for wildcard download start of chunk. See *CURLOPT_CHUNK_BGN_FUNCTION(3)*

CURLOPT_CHUNK_END_FUNCTION

Callback for wildcard download end of chunk. See *CURLOPT_CHUNK_END_FUNCTION(3)*

CURLOPT_CHUNK_DATA

Data pointer to pass to the chunk callbacks. See *CURLOPT_CHUNK_DATA(3)*

CURLOPT_FNMATCH_FUNCTION

Callback for wildcard matching. See *CURLOPT_FNMATCH_FUNCTION(3)*

CURLOPT_FNMATCH_DATA

Data pointer to pass to the wildcard matching callback. See *CURLOPT_FNMATCH_DATA(3)*

ERROR OPTIONS**CURLOPT_ERRORBUFFER**

Error message buffer. See *CURLOPT_ERRORBUFFER(3)*

CURLOPT_STDERR

stderr replacement stream. See *CURLOPT_STDERR(3)*

CURLOPT_FAILONERROR

Fail on HTTP 4xx errors. *CURLOPT_FAILONERROR(3)*

NETWORK OPTIONS**CURLOPT_URL**

URL to work on. See *CURLOPT_URL(3)*

CURLOPT_PATH_AS_IS

Disable squashing *../* and *./* sequences in the path. See *CURLOPT_PATH_AS_IS(3)*

CURLOPT_PROTOCOLS

Allowed protocols. See *CURLOPT_PROTOCOLS(3)*

CURLOPT_REDIR_PROTOCOLS

Protocols to allow redirects to. See *CURLOPT_REDIR_PROTOCOLS(3)*

CURLOPT_DEFAULT_PROTOCOL

Default protocol. See *CURLOPT_DEFAULT_PROTOCOL(3)*

CURLOPT_PROXY

Proxy to use. See *CURLOPT_PROXY(3)*

CURLOPT_PROXYPORT

Proxy port to use. See *CURLOPT_PROXYPORT(3)*

CURLOPT_PROXYTYPE

Proxy type. See *CURLOPT_PROXYTYPE(3)*

CURLOPT_NOPROXY

Filter out hosts from proxy use. *CURLOPT_NOPROXY(3)*

CURLOPT_HTTPPROXYTUNNEL
Tunnel through the HTTP proxy. *CURLOPT_HTTPPROXYTUNNEL(3)*

CURLOPT_CONNECT_TO
Connect to a specific host and port. See *CURLOPT_CONNECT_TO(3)*

CURLOPT_SOCKS5_GSSAPI_SERVICE
Socks5 GSSAPI service name. *CURLOPT_SOCKS5_GSSAPI_SERVICE(3)*

CURLOPT_SOCKS5_GSSAPI_NEC
Socks5 GSSAPI NEC mode. See *CURLOPT_SOCKS5_GSSAPI_NEC(3)*

CURLOPT_PROXY_SERVICE_NAME
Proxy authentication service name. *CURLOPT_PROXY_SERVICE_NAME(3)*

CURLOPT_SERVICE_NAME
Authentication service name. *CURLOPT_SERVICE_NAME(3)*

CURLOPT_INTERFACE
Bind connection locally to this. See *CURLOPT_INTERFACE(3)*

CURLOPT_LOCALPORT
Bind connection locally to this port. See *CURLOPT_LOCALPORT(3)*

CURLOPT_LOCALPORTRANGE
Bind connection locally to port range. See *CURLOPT_LOCALPORTRANGE(3)*

CURLOPT_DNS_CACHE_TIMEOUT
Timeout for DNS cache. See *CURLOPT_DNS_CACHE_TIMEOUT(3)*

CURLOPT_DNS_USE_GLOBAL_CACHE
OBSOLETE Enable global DNS cache. See *CURLOPT_DNS_USE_GLOBAL_CACHE(3)*

CURLOPT_BUFFERSIZE
Ask for smaller buffer size. See *CURLOPT_BUFFERSIZE(3)*

CURLOPT_PORT
Port number to connect to. See *CURLOPT_PORT(3)*

CURLOPT_TCP_FASTOPEN
Enable TFO, TCP Fast Open. See *CURLOPT_TCP_FASTOPEN(3)*

CURLOPT_TCP_NODELAY
Disable the Nagle algorithm. See *CURLOPT_TCP_NODELAY(3)*

CURLOPT_ADDRESS_SCOPE
IPv6 scope for local addresses. See *CURLOPT_ADDRESS_SCOPE(3)*

CURLOPT_TCP_KEEPALIVE
Enable TCP keep-alive. See *CURLOPT_TCP_KEEPALIVE(3)*

CURLOPT_TCP_KEEPIDLE
Idle time before sending keep-alive. See *CURLOPT_TCP_KEEPIDLE(3)*

CURLOPT_TCP_KEEPINTVL
Interval between keep-alive probes. See *CURLOPT_TCP_KEEPINTVL(3)*

CURLOPT_UNIX_SOCKET_PATH
Path to a Unix domain socket. See *CURLOPT_UNIX_SOCKET_PATH(3)*

NAMES and PASSWORDS OPTIONS (Authentication)

CURLOPT_NETRC
Enable .netrc parsing. See *CURLOPT_NETRC(3)*

CURLOPT_NETRC_FILE
.netrc file name. See *CURLOPT_NETRC_FILE(3)*

CURLOPT_USERPWD

User name and password. See *CURLOPT_USERPWD(3)*

CURLOPT_PROXYUSERPWD

Proxy user name and password. See *CURLOPT_PROXYUSERPWD(3)*

CURLOPT_USERNAME

User name. See *CURLOPT_USERNAME(3)*

CURLOPT_PASSWORD

Password. See *CURLOPT_PASSWORD(3)*

CURLOPT_LOGIN_OPTIONS

Login options. See *CURLOPT_LOGIN_OPTIONS(3)*

CURLOPT_PROXYUSERNAME

Proxy user name. See *CURLOPT_PROXYUSERNAME(3)*

CURLOPT_PROXYPASSWORD

Proxy password. See *CURLOPT_PROXYPASSWORD(3)*

CURLOPT_HTTPAUTH

HTTP server authentication methods. See *CURLOPT_HTTPAUTH(3)*

CURLOPT_TLSAUTH_USERNAME

TLS authentication user name. See *CURLOPT_TLSAUTH_USERNAME(3)*

CURLOPT_TLSAUTH_PASSWORD

TLS authentication password. See *CURLOPT_TLSAUTH_PASSWORD(3)*

CURLOPT_TLSAUTH_TYPE

TLS authentication methods. See *CURLOPT_TLSAUTH_TYPE(3)*

CURLOPT_PROXYAUTH

HTTP proxy authentication methods. See *CURLOPT_PROXYAUTH(3)*

CURLOPT_SASL_IR

Enable SASL initial response. See *CURLOPT_SASL_IR(3)*

CURLOPT_XOAUTH2_BEARER

OAuth2 bearer token. See *CURLOPT_XOAUTH2_BEARER(3)*

HTTP OPTIONS**CURLOPT_AUTOREFERER**

Automatically set Referer: header. See *CURLOPT_AUTOREFERER(3)*

CURLOPT_ACCEPT_ENCODING

Accept-Encoding and automatic decompressing data. See *CURLOPT_ACCEPT_ENCODING(3)*

CURLOPT_TRANSFER_ENCODING

Request Transfer-Encoding. See *CURLOPT_TRANSFER_ENCODING(3)*

CURLOPT_FOLLOWLOCATION

Follow HTTP redirects. See *CURLOPT_FOLLOWLOCATION(3)*

CURLOPT_UNRESTRICTED_AUTH

Do not restrict authentication to original host. *CURLOPT_UNRESTRICTED_AUTH(3)*

CURLOPT_MAXREDIRS

Maximum number of redirects to follow. See *CURLOPT_MAXREDIRS(3)*

CURLOPT_POSTREDIR

How to act on redirects after POST. See *CURLOPT_POSTREDIR(3)*

CURLOPT_PUT

Issue a HTTP PUT request. See *CURLOPT_PUT(3)*

- CURLOPT_POST**
Issue a HTTP POST request. See *CURLOPT_POST(3)*
- CURLOPT_POSTFIELDS**
Send a POST with this data. See *CURLOPT_POSTFIELDS(3)*
- CURLOPT_POSTFIELDSIZE**
The POST data is this big. See *CURLOPT_POSTFIELDSIZE(3)*
- CURLOPT_POSTFIELDSIZE_LARGE**
The POST data is this big. See *CURLOPT_POSTFIELDSIZE_LARGE(3)*
- CURLOPT_COPYPOSTFIELDS**
Send a POST with this data - and copy it. See *CURLOPT_COPYPOSTFIELDS(3)*
- CURLOPT_HTTPPOST**
Multipart formpost HTTP POST. See *CURLOPT_HTTPPOST(3)*
- CURLOPT_REFERER**
Referer: header. See *CURLOPT_REFERER(3)*
- CURLOPT_USERAGENT**
User-Agent: header. See *CURLOPT_USERAGENT(3)*
- CURLOPT_HTTPHEADER**
Custom HTTP headers. See *CURLOPT_HTTPHEADER(3)*
- CURLOPT_HEADEROPT**
Control custom headers. See *CURLOPT_HEADEROPT(3)*
- CURLOPT_PROXYHEADER**
Custom HTTP headers sent to proxy. See *CURLOPT_PROXYHEADER(3)*
- CURLOPT_HTTP200ALIASES**
Alternative versions of 200 OK. See *CURLOPT_HTTP200ALIASES(3)*
- CURLOPT_COOKIE**
Cookie(s) to send. See *CURLOPT_COOKIE(3)*
- CURLOPT_COOKIEFILE**
File to read cookies from. See *CURLOPT_COOKIEFILE(3)*
- CURLOPT_COOKIEJAR**
File to write cookies to. See *CURLOPT_COOKIEJAR(3)*
- CURLOPT_COOKIESESSION**
Start a new cookie session. See *CURLOPT_COOKIESESSION(3)*
- CURLOPT_COOKIELIST**
Add or control cookies. See *CURLOPT_COOKIELIST(3)*
- CURLOPT_HTTPGET**
Do a HTTP GET request. See *CURLOPT_HTTPGET(3)*
- CURLOPT_HTTP_VERSION**
HTTP version to use. *CURLOPT_HTTP_VERSION(3)*
- CURLOPT_IGNORE_CONTENT_LENGTH**
Ignore Content-Length. See *CURLOPT_IGNORE_CONTENT_LENGTH(3)*
- CURLOPT_HTTP_CONTENT_DECODING**
Disable Content decoding. See *CURLOPT_HTTP_CONTENT_DECODING(3)*
- CURLOPT_HTTP_TRANSFER_DECODING**
Disable Transfer decoding. See *CURLOPT_HTTP_TRANSFER_DECODING(3)*

CURLOPT_EXPECT_100_TIMEOUT_MS

100-continue timeout. See *CURLOPT_EXPECT_100_TIMEOUT_MS(3)*

CURLOPT_PIPEWAIT

Wait on connection to pipeline on it. See *CURLOPT_PIPEWAIT(3)*

CURLOPT_STREAM_DEPENDS

This HTTP/2 stream depends on another. See *CURLOPT_STREAM_DEPENDS(3)*

CURLOPT_STREAM_DEPENDS_E

This HTTP/2 stream depends on another exclusively. See *CURLOPT_STREAM_DEPENDS_E(3)*

CURLOPT_STREAM_WEIGHT

Set this HTTP/2 stream's weight. See *CURLOPT_STREAM_WEIGHT(3)*

SMTP OPTIONS

CURLOPT_MAIL_FROM

Address of the sender. See *CURLOPT_MAIL_FROM(3)*

CURLOPT_MAIL_RCPT

Address of the recipients. See *CURLOPT_MAIL_RCPT(3)*

CURLOPT_MAIL_AUTH

Authentication address. See *CURLOPT_MAIL_AUTH(3)*

TFTP OPTIONS

CURLOPT_TFTP_BLKSIZE

TFTP block size. See *CURLOPT_TFTP_BLKSIZE(3)*

CURLOPT_TFTP_NO_OPTIONS

Do not send TFTP options requests. See *CURLOPT_TFTP_NO_OPTIONS(3)*

FTP OPTIONS

CURLOPT_FTPPORT

Use active FTP. See *CURLOPT_FTPPORT(3)*

CURLOPT_QUOTE

Commands to run before transfer. See *CURLOPT_QUOTE(3)*

CURLOPT_POSTQUOTE

Commands to run after transfer. See *CURLOPT_POSTQUOTE(3)*

CURLOPT_PREQUOTE

Commands to run just before transfer. See *CURLOPT_PREQUOTE(3)*

CURLOPT_APPEND

Append to remote file. See *CURLOPT_APPEND(3)*

CURLOPT_FTP_USE_EPRT

Use EPTR. See *CURLOPT_FTP_USE_EPRT(3)*

CURLOPT_FTP_USE_EPSV

Use EPSV. See *CURLOPT_FTP_USE_EPSV(3)*

CURLOPT_FTP_USE_PRET

Use PRET. See *CURLOPT_FTP_USE_PRET(3)*

CURLOPT_FTP_CREATE_MISSING_DIRS

Create missing directories on the remote server. See *CURLOPT_FTP_CREATE_MISSING_DIRS(3)*

CURLOPT_FTP_RESPONSE_TIMEOUT

Timeout for FTP responses. See *CURLOPT_FTP_RESPONSE_TIMEOUT(3)*

CURLOPT_FTP_ALTERNATIVE_TO_USER

Alternative to USER. See *CURLOPT_FTP_ALTERNATIVE_TO_USER(3)*

CURLOPT_FTP_SKIP_PASV_IP

Ignore the IP address in the PASV response. See *CURLOPT_FTP_SKIP_PASV_IP(3)*

CURLOPT_FTPSSLAUTH

Control how to do TLS. See *CURLOPT_FTPSSLAUTH(3)*

CURLOPT_FTP_SSL_CCC

Back to non-TLS again after authentication. See *CURLOPT_FTP_SSL_CCC(3)*

CURLOPT_FTP_ACCOUNT

Send ACCT command. See *CURLOPT_FTP_ACCOUNT(3)*

CURLOPT_FTP_FILEMETHOD

Specify how to reach files. See *CURLOPT_FTP_FILEMETHOD(3)*

RTSP OPTIONS

CURLOPT_RTSP_REQUEST

RTSP request. See *CURLOPT_RTSP_REQUEST(3)*

CURLOPT_RTSP_SESSION_ID

RTSP session-id. See *CURLOPT_RTSP_SESSION_ID(3)*

CURLOPT_RTSP_STREAM_URI

RTSP stream URI. See *CURLOPT_RTSP_STREAM_URI(3)*

CURLOPT_RTSP_TRANSPORT

RTSP Transport: header. See *CURLOPT_RTSP_TRANSPORT(3)*

CURLOPT_RTSP_CLIENT_CSEQ

Client CSEQ number. See *CURLOPT_RTSP_CLIENT_CSEQ(3)*

CURLOPT_RTSP_SERVER_CSEQ

CSEQ number for RTSP Server->Client request. See *CURLOPT_RTSP_SERVER_CSEQ(3)*

PROTOCOL OPTIONS

CURLOPT_TRANSFERTEXT

Use text transfer. See *CURLOPT_TRANSFERTEXT(3)*

CURLOPT_PROXY_TRANSFER_MODE

Add transfer mode to URL over proxy. See *CURLOPT_PROXY_TRANSFER_MODE(3)*

CURLOPT_CRLF

Convert newlines. See *CURLOPT_CRLF(3)*

CURLOPT_RANGE

Range requests. See *CURLOPT_RANGE(3)*

CURLOPT_RESUME_FROM

Resume a transfer. See *CURLOPT_RESUME_FROM(3)*

CURLOPT_RESUME_FROM_LARGE

Resume a transfer. See *CURLOPT_RESUME_FROM_LARGE(3)*

CURLOPT_CUSTOMREQUEST

Custom request/method. See *CURLOPT_CUSTOMREQUEST(3)*

CURLOPT_FILETIME

Request file modification date and time. See *CURLOPT_FILETIME(3)*

CURLOPT_DIRLISTONLY

List only. See *CURLOPT_DIRLISTONLY(3)*

CURLOPT_NOBODY

Do not get the body contents. See *CURLOPT_NOBODY(3)*

CURLOPT_INFILESIZE

Size of file to send. *CURLOPT_INFILESIZE(3)*

CURLOPT_INFILESIZE_LARGE

Size of file to send. *CURLOPT_INFILESIZE_LARGE(3)*

CURLOPT_UPLOAD

Upload data. See *CURLOPT_UPLOAD(3)*

CURLOPT_MAXFILESIZE

Maximum file size to get. See *CURLOPT_MAXFILESIZE(3)*

CURLOPT_MAXFILESIZE_LARGE

Maximum file size to get. See *CURLOPT_MAXFILESIZE_LARGE(3)*

CURLOPT_TIMECONDITION

Make a time conditional request. See *CURLOPT_TIMECONDITION(3)*

CURLOPT_TIMEVALUE

Time value for the time conditional request. See *CURLOPT_TIMEVALUE(3)*

CONNECTION OPTIONS**CURLOPT_TIMEOUT**

Timeout for the entire request. See *CURLOPT_TIMEOUT(3)*

CURLOPT_TIMEOUT_MS

Millisecond timeout for the entire request. See *CURLOPT_TIMEOUT_MS(3)*

CURLOPT_LOW_SPEED_LIMIT

Low speed limit to abort transfer. See *CURLOPT_LOW_SPEED_LIMIT(3)*

CURLOPT_LOW_SPEED_TIME

Time to be below the speed to trigger low speed abort. See *CURLOPT_LOW_SPEED_TIME(3)*

CURLOPT_MAX_SEND_SPEED_LARGE

Cap the upload speed to this. See *CURLOPT_MAX_SEND_SPEED_LARGE(3)*

CURLOPT_MAX_RECV_SPEED_LARGE

Cap the download speed to this. See *CURLOPT_MAX_RECV_SPEED_LARGE(3)*

CURLOPT_MAXCONNECTS

Maximum number of connections in the connection pool. See *CURLOPT_MAXCONNECTS(3)*

CURLOPT_FRESH_CONNECT

Use a new connection. *CURLOPT_FRESH_CONNECT(3)*

CURLOPT_FORBID_REUSE

Prevent subsequent connections from re-using this. See *CURLOPT_FORBID_REUSE(3)*

CURLOPT_CONNECTTIMEOUT

Timeout for the connection phase. See *CURLOPT_CONNECTTIMEOUT(3)*

CURLOPT_CONNECTTIMEOUT_MS

Millisecond timeout for the connection phase. See *CURLOPT_CONNECTTIMEOUT_MS(3)*

CURLOPT_IPRESOLVE

IP version to resolve to. See *CURLOPT_IPRESOLVE(3)*

CURLOPT_CONNECT_ONLY

Only connect, nothing else. See *CURLOPT_CONNECT_ONLY(3)*

CURLOPT_USE_SSL

Use TLS/SSL. See *CURLOPT_USE_SSL(3)*

CURLOPT_RESOLVE

Provide fixed/fake name resolves. See *CURLOPT_RESOLVE(3)*

CURLOPT_DNS_INTERFACE

Bind name resolves to this interface. See *CURLOPT_DNS_INTERFACE(3)*

CURLOPT_DNS_LOCAL_IP4

Bind name resolves to this IP4 address. See *CURLOPT_DNS_LOCAL_IP4(3)*

CURLOPT_DNS_LOCAL_IP6

Bind name resolves to this IP6 address. See *CURLOPT_DNS_LOCAL_IP6(3)*

CURLOPT_DNS_SERVERS

Preferred DNS servers. See *CURLOPT_DNS_SERVERS(3)*

CURLOPT_ACCEPTTIMEOUT_MS

Timeout for waiting for the server's connect back to be accepted. See *CURLOPT_ACCEPTTIMEOUT_MS(3)*

SSL and SECURITY OPTIONS**CURLOPT_SSLCERT**

Client cert. See *CURLOPT_SSLCERT(3)*

CURLOPT_SSLCERTTYPE

Client cert type. See *CURLOPT_SSLCERTTYPE(3)*

CURLOPT_SSLKEY

Client key. See *CURLOPT_SSLKEY(3)*

CURLOPT_SSLKEYTYPE

Client key type. See *CURLOPT_SSLKEYTYPE(3)*

CURLOPT_KEYPASSWD

Client key password. See *CURLOPT_KEYPASSWD(3)*

CURLOPT_SSL_ENABLE_ALPN

Enable use of ALPN. See *CURLOPT_SSL_ENABLE_ALPN(3)*

CURLOPT_SSL_ENABLE_NPN

Enable use of NPN. See *CURLOPT_SSL_ENABLE_NPN(3)*

CURLOPT_SSLENGINE

Use identifier with SSL engine. See *CURLOPT_SSLENGINE(3)*

CURLOPT_SSLENGINE_DEFAULT

Default SSL engine. See *CURLOPT_SSLENGINE_DEFAULT(3)*

CURLOPT_SSL_FALSESTART

Enable TLS False Start. See *CURLOPT_SSL_FALSESTART(3)*

CURLOPT_SSLVERSION

SSL version to use. See *CURLOPT_SSLVERSION(3)*

CURLOPT_SSL_VERIFYHOST

Verify the host name in the SSL certificate. See *CURLOPT_SSL_VERIFYHOST(3)*

CURLOPT_SSL_VERIFYPEER

Verify the SSL certificate. See *CURLOPT_SSL_VERIFYPEER(3)*

CURLOPT_SSL_VERIFYSTATUS

Verify the SSL certificate's status. See *CURLOPT_SSL_VERIFYSTATUS(3)*

CURLOPT_CAINFO

CA cert bundle. See *CURLOPT_CAINFO(3)*

CURLOPT_ISSUERCERT

Issuer certificate. See *CURLOPT_ISSUERCERT(3)*

CURLOPT_CAPATH

Path to CA cert bundle. See *CURLOPT_CAPATH(3)*

CURLOPT_CRLFILE

Certificate Revocation List. See *CURLOPT_CRLFILE(3)*

CURLOPT_CERTINFO

Extract certificate info. See *CURLOPT_CERTINFO(3)*

CURLOPT_PINNEDPUBLICKEY

Set pinned SSL public key . See *CURLOPT_PINNEDPUBLICKEY(3)*

CURLOPT_RANDOM_FILE

Provide source for entropy random data. See *CURLOPT_RANDOM_FILE(3)*

CURLOPT_EGDSOCKET

Identify EGD socket for entropy. See *CURLOPT_EGDSOCKET(3)*

CURLOPT_SSL_CIPHER_LIST

Ciphers to use. See *CURLOPT_SSL_CIPHER_LIST(3)*

CURLOPT_SSL_SESSIONID_CACHE

Disable SSL session-id cache. See *CURLOPT_SSL_SESSIONID_CACHE(3)*

CURLOPT_SSL_OPTIONS

Control SSL behavior. See *CURLOPT_SSL_OPTIONS(3)*

CURLOPT_KRBLEVEL

Kerberos security level. See *CURLOPT_KRBLEVEL(3)*

CURLOPT_GSSAPI_DELEGATION

Disable GSS-API delegation. See *CURLOPT_GSSAPI_DELEGATION(3)*

SSH OPTIONS**CURLOPT_SSH_AUTH_TYPES**

SSH authentication types. See *CURLOPT_SSH_AUTH_TYPES(3)*

CURLOPT_SSH_HOST_PUBLIC_KEY_MD5

MD5 of host's public key. See *CURLOPT_SSH_HOST_PUBLIC_KEY_MD5(3)*

CURLOPT_SSH_PUBLIC_KEYFILE

File name of public key. See *CURLOPT_SSH_PUBLIC_KEYFILE(3)*

CURLOPT_SSH_PRIVATE_KEYFILE

File name of private key. See *CURLOPT_SSH_PRIVATE_KEYFILE(3)*

CURLOPT_SSH_KNOWNHOSTS

File name with known hosts. See *CURLOPT_SSH_KNOWNHOSTS(3)*

CURLOPT_SSH_KEYFUNCTION

Callback for known hosts handling. See *CURLOPT_SSH_KEYFUNCTION(3)*

CURLOPT_SSH_KEYDATA

Custom pointer to pass to ssh key callback. See *CURLOPT_SSH_KEYDATA(3)*

OTHER OPTIONS**CURLOPT_PRIVATE**

Private pointer to store. See *CURLOPT_PRIVATE(3)*

CURLOPT_SHARE

Share object to use. See *CURLOPT_SHARE(3)*

CURLOPT_NEW_FILE_PERMS

Mode for creating new remote files. See *CURLOPT_NEW_FILE_PERMS(3)*

CURLOPT_NEW_DIRECTORY_PERMS

Mode for creating new remote directories. See *CURLOPT_NEW_DIRECTORY_PERMS(3)*

TELNET OPTIONS**CURLOPT_TELNETOPTIONS**

TELNET options. See *CURLOPT_TELNETOPTIONS(3)*

RETURN VALUE

CURLE_OK (zero) means that the option was set properly, non-zero means an error occurred as *<curl/curl.h>* defines. See the *libcurl-errors(3)* man page for the full list with descriptions.

If you try to set an option that libcurl doesn't know about, perhaps because the library is too old to support it or the option was removed in a recent version, this function will return *CURLE_UNKNOWN_OPTION*. If support for the option was disabled at compile-time, it will return *CURLE_NOT_BUILT_IN*.

EXAMPLE

```
CURL *curl = curl_easy_init();
if(curl) {
    CURLcode res;
    curl_easy_setopt(curl, CURLOPT_URL, "http://example.com");
    res = curl_easy_perform(curl);
    curl_easy_cleanup(curl);
}
```

SEE ALSO

curl_easy_init(3), **curl_easy_cleanup(3),** **curl_easy_reset(3),** **curl_easy_getinfo(3),**
curl_multi_setopt(3),