

## 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\_OPENSOCKETFUNCTION**

Callback for socket creation. See *CURLOPT\_OPENSOCKETFUNCTION(3)*

**CURLOPT\_OPENSOCKETDATA**

Data pointer to pass to the open socket callback. See *CURLOPT\_OPENSOCKETDATA(3)*

**CURLOPT\_CLOSESOCKETFUNCTION**

Callback for closing socket. See *CURLOPT\_CLOSESOCKETFUNCTION(3)*

**CURLOPT\_CLOSESOCKETDATA**

Data pointer to pass to the close socket callback. See *CURLOPT\_CLOSESOCKETDATA(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 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 service name. *CURLOPT\_PROXY\_SERVICE\_NAME(3)*

**CURLOPT\_SERVICE\_NAME**

SPNEGO 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\_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)*

**SMTTP 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)*

**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),**