

NAME

curl_easy_setopt – set options for a curl easy handle

SYNOPSIS

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

```
CURLcode curl_easy_setopt(CURL *handle, CURLoption 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.

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

Options set with this function call are sticky. They remain set 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)*.

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

STRINGS

Strings passed to libcurl as 'char *' arguments, are copied by the library; the string storage associated to the pointer argument may be discarded or reused 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_COPYPOSTFIELDS(3)* has some usage characteristics you need to read up on.

This function does not accept input strings longer than **CURL_MAX_INPUT_LENGTH** (8 MB).

libcurl does little to no verification of the contents of provided strings. Passing in "creative octets" like newlines where they are not expected might trigger unexpected results.

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

OPTIONS

CURLOPT_ABSTRACT_UNIX_SOCKET

Path to an abstract Unix domain socket. See *CURLOPT_ABSTRACT_UNIX_SOCKET(3)*

CURLOPT_ACCEPTTIMEOUT_MS

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

CURLOPT_ACCEPT_ENCODING

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

CURLOPT_ADDRESS_SCOPE

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

CURLOPT_ALTSVC

Specify the Alt-Svc: cache filename. See *CURLOPT_ALTSVC(3)*

CURLOPT_ALTSVC_CTRL

Enable and configure Alt-Svc: treatment. See *CURLOPT_ALTSVC_CTRL(3)*

CURLOPT_APPEND

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

CURLOPT_AUTOREFERER

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

CURLOPT_AWS_SIGV4

AWS HTTP V4 Signature. See *CURLOPT_AWS_SIGV4(3)*

CURLOPT_BUFFERSIZE

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

CURLOPT_CAINFO

CA cert bundle. See *CURLOPT_CAINFO(3)*

CURLOPT_CAINFO_BLOB

CA cert bundle memory buffer. See *CURLOPT_CAINFO_BLOB(3)*

CURLOPT_CAPATH

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

CURLOPT_CA_CACHE_TIMEOUT

Timeout for CA cache. See *CURLOPT_CA_CACHE_TIMEOUT(3)*

CURLOPT_CERTINFO

Extract certificate info. See *CURLOPT_CERTINFO(3)*

CURLOPT_CHUNK_BGN_FUNCTION

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

CURLOPT_CHUNK_DATA

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

CURLOPT_CHUNK_END_FUNCTION

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

CURLOPT_CLOSESOCKETDATA

Data pointer to pass to the close socket callback. See *CURLOPT_CLOSESOCKETDATA(3)*

CURLOPT_CLOSESOCKETFUNCTION

Callback for closing socket. See *CURLOPT_CLOSESOCKETFUNCTION(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_CONNECT_ONLY

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

CURLOPT_CONNECT_TO

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

CURLOPT_CONV_FROM_NETWORK_FUNCTION

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

CURLOPT_CONV_FROM_UTF8_FUNCTION

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

CURLOPT_CONV_TO_NETWORK_FUNCTION

OBSOLETE Callback for code base conversion. See *CURLOPT_CONV_TO_NETWORK_FUNCTION(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_COOKIELIST

Add or control cookies. See *CURLOPT_COOKIELIST(3)*

CURLOPT_COOKIESESSION

Start a new cookie session. See *CURLOPT_COOKIESESSION(3)*

CURLOPT_COPYPOSTFIELDS

Send a POST with this data – and copy it. See *CURLOPT_COPYPOSTFIELDS(3)*

CURLOPT_CRLF

Convert newlines. See *CURLOPT_CRLF(3)*

CURLOPT_CRLFILE

Certificate Revocation List. See *CURLOPT_CRLFILE(3)*

CURLOPT_CURLU

Set URL to work on with a URL handle. See *CURLOPT_CURLU(3)*

CURLOPT_CUSTOMREQUEST

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

CURLOPT_DEBUGDATA

Data pointer to pass to the debug callback. See *CURLOPT_DEBUGDATA(3)*

CURLOPT_DEBUGFUNCTION

Callback for debug information. See *CURLOPT_DEBUGFUNCTION(3)*

CURLOPT_DEFAULT_PROTOCOL

Default protocol. See *CURLOPT_DEFAULT_PROTOCOL(3)*

CURLOPT_DIRLISTONLY

List only. See *CURLOPT_DIRLISTONLY(3)*

CURLOPT_DISALLOW_USERNAME_IN_URL

Do not allow username in URL. See *CURLOPT_DISALLOW_USERNAME_IN_URL(3)*

CURLOPT_DNS_CACHE_TIMEOUT

Timeout for DNS cache. See *CURLOPT_DNS_CACHE_TIMEOUT(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_DNS_SHUFFLE_ADDRESSES

Shuffle addresses before use. See *CURLOPT_DNS_SHUFFLE_ADDRESSES(3)*

CURLOPT_DNS_USE_GLOBAL_CACHE

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

CURLOPT_DOH_SSL_VERIFYHOST

Verify the hostname in the DoH (DNS-over-HTTPS) SSL certificate. See *CURLOPT_DOH_SSL_VERIFYHOST(3)*

CURLOPT_DOH_SSL_VERIFYPEER

Verify the DoH (DNS-over-HTTPS) SSL certificate. See *CURLOPT_DOH_SSL_VERIFYPEER(3)*

CURLOPT_DOH_SSL_VERIFYSTATUS

Verify the DoH (DNS-over-HTTPS) SSL certificate's status. See *CURLOPT_DOH_SSL_VERIFYSTATUS(3)*

CURLOPT_DOH_URL

Use this DoH server for name resolves. See *CURLOPT_DOH_URL(3)*

CURLOPT_ECH

Set the configuration for ECH. See *CURLOPT_ECH(3)*

CURLOPT_EGDSOCKET

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

CURLOPT_ERRORBUFFER

Error message buffer. See *CURLOPT_ERRORBUFFER(3)*

CURLOPT_EXPECT_100_TIMEOUT_MS

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

CURLOPT_FAILONERROR

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

CURLOPT_FILETIME

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

CURLOPT_FNMATCH_DATA

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

CURLOPT_FNMATCH_FUNCTION

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

CURLOPT_FOLLOWLOCATION

Follow HTTP redirects. See *CURLOPT_FOLLOWLOCATION(3)*

CURLOPT_FORBID_REUSE

Prevent subsequent connections from reusing this. See *CURLOPT_FORBID_REUSE(3)*

CURLOPT_FRESH_CONNECT

Use a new connection. *CURLOPT_FRESH_CONNECT(3)*

CURLOPT_FTPPORT

Use active FTP. See *CURLOPT_FTPPORT(3)*

CURLOPT_FTPSSLAUTH

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

CURLOPT_FTP_ACCOUNT

Send ACCT command. See *CURLOPT_FTP_ACCOUNT(3)*

CURLOPT_FTP_ALTERNATIVE_TO_USER

Alternative to USER. See *CURLOPT_FTP_ALTERNATIVE_TO_USER(3)*

CURLOPT_FTP_CREATE_MISSING_DIRS

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

CURLOPT_FTP_FILEMETHOD

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

CURLOPT_FTP_SKIP_PASV_IP

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

CURLOPT_FTP_SSL_CCC

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

CURLOPT_FTP_USE_EPRT

Use EPRT. 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_GSSAPI_DELEGATION

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

CURLOPT_HAPPY_EYEBALLS_TIMEOUT_MS

Timeout for happy eyeballs. See *CURLOPT_HAPPY_EYEBALLS_TIMEOUT_MS(3)*

CURLOPT_HAPROXYPROTOCOL

Send an HAProxy PROXY protocol v1 header. See *CURLOPT_HAPROXYPROTOCOL(3)*

CURLOPT_HAPROXY_CLIENT_IP

Spoof the client IP in an HAProxy PROXY protocol v1 header. See *CURLOPT_HAPROXY_CLIENT_IP(3)*

CURLOPT_HEADER

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

CURLOPT_HEADERDATA

Data pointer to pass to the header callback. See *CURLOPT_HEADERDATA(3)*

CURLOPT_HEADERFUNCTION

Callback for writing received headers. See *CURLOPT_HEADERFUNCTION(3)*

CURLOPT_HEADEROPT

Control custom headers. See *CURLOPT_HEADEROPT(3)*

CURLOPT_HSTS

Set HSTS cache file. See *CURLOPT_HSTS(3)*

CURLOPT_HSTSREADDATA

Pass pointer to the HSTS read callback. See *CURLOPT_HSTSREADDATA(3)*

CURLOPT_HSTSREADFUNCTION

Set HSTS read callback. See *CURLOPT_HSTSREADFUNCTION(3)*

CURLOPT_HSTSWRITEDATA

Pass pointer to the HSTS write callback. See *CURLOPT_HSTSWRITEDATA(3)*

CURLOPT_HSTSWRITEFUNCTION

Set HSTS write callback. See *CURLOPT_HSTSWRITEFUNCTION(3)*

CURLOPT_HSTS_CTRL

Enable HSTS. See *CURLOPT_HSTS_CTRL(3)*

CURLOPT_HTTP09_ALLOWED

Allow HTTP/0.9 responses. See *CURLOPT_HTTP09_ALLOWED(3)*

CURLOPT_HTTP200ALIASES

Alternative versions of 200 OK. See *CURLOPT_HTTP200ALIASES(3)*

CURLOPT_HTTPAUTH

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

CURLOPT_HTTPGET

Do an HTTP GET request. See *CURLOPT_HTTPGET(3)*

CURLOPT_HTTPHEADER

Custom HTTP headers. See *CURLOPT_HTTPHEADER(3)*

CURLOPT_HTTPPOST

Deprecated option Multipart formpost HTTP POST. See *CURLOPT_HTTPPOST(3)*

CURLOPT_HTTPPROXYTUNNEL

Tunnel through the HTTP proxy. *CURLOPT_HTTPPROXYTUNNEL(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_HTTP_VERSION

HTTP version to use. *CURLOPT_HTTP_VERSION(3)*

CURLOPT_IGNORE_CONTENT_LENGTH

Ignore Content-Length. See *CURLOPT_IGNORE_CONTENT_LENGTH(3)*

CURLOPT_INFILESIZE

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

CURLOPT_INFILESIZE_LARGE

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

CURLOPT_INTERFACE

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

CURLOPT_INTERLEAVEDATA

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

CURLOPT_INTERLEAVEFUNCTION

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

CURLOPT_IOCTLDATA

Deprecated option Data pointer to pass to the I/O callback. See *CURLOPT_IOCTLDATA(3)*

CURLOPT_IOCTLFUNCTION

Deprecated option Callback for I/O operations. See *CURLOPT_IOCTLFUNCTION(3)*

CURLOPT_IPRESOLVE

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

CURLOPT_ISSUERCERT

Issuer certificate. See *CURLOPT_ISSUERCERT(3)*

CURLOPT_ISSUERCERT_BLOB

Issuer certificate memory buffer. See *CURLOPT_ISSUERCERT_BLOB(3)*

CURLOPT_KEEP_SENDING_ON_ERROR

Keep sending on HTTP >= 300 errors. *CURLOPT_KEEP_SENDING_ON_ERROR(3)*

CURLOPT_KEYPASSWD

Client key password. See *CURLOPT_KEYPASSWD(3)*

CURLOPT_KRBLEVEL

OBSOLETE. Kerberos security level. See *CURLOPT_KRBLEVEL(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_LOGIN_OPTIONS

Login options. See *CURLOPT_LOGIN_OPTIONS(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_MAIL_AUTH

Authentication address. See *CURLOPT_MAIL_AUTH(3)*

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_RCPT_ALLOWFAILS

Allow RCPT TO command to fail for some recipients. See *CURLOPT_MAIL_RCPT_ALLOWFAILS(3)*

CURLOPT_MAXAGE_CONN

Limit the age (idle time) of connections for reuse. See *CURLOPT_MAXAGE_CONN(3)*

CURLOPT_MAXCONNECTS

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

Limit the age (since creation) of connections for reuse. See *CURLOPT_MAXLIFETIME_CONN(3)*

CURLOPT_MAXREDIRS

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

CURLOPT_MAX_RECV_SPEED_LARGE

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

CURLOPT_MAX_SEND_SPEED_LARGE

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

CURLOPT_MIMEPOST

Post/send MIME data. See *CURLOPT_MIMEPOST(3)*

CURLOPT_MIME_OPTIONS

Set MIME option flags. See *CURLOPT_MIME_OPTIONS(3)*

CURLOPT_NETRC

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

CURLOPT_NETRC_FILE

.netrc filename. See *CURLOPT_NETRC_FILE(3)*

CURLOPT_NEW_DIRECTORY_PERMS

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

CURLOPT_NEW_FILE_PERMS

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

CURLOPT_NOBODY

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

CURLOPT_NOPROGRESS

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

CURLOPT_NOPROXY

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

CURLOPT_NOSIGNAL

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

CURLOPT_OPENSOCKETDATA

Data pointer to pass to the open socket callback. See *CURLOPT_OPENSOCKETDATA(3)*

CURLOPT_OPENSOCKETFUNCTION

Callback for socket creation. See *CURLOPT_OPENSOCKETFUNCTION(3)*

CURLOPT_PASSWORD

Password. See *CURLOPT_PASSWORD(3)*

CURLOPT_PATH_AS_IS

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

CURLOPT_PINNEDPUBLICKEY

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

CURLOPT_PIPEWAIT

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

CURLOPT_PORT

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

CURLOPT_POST

Make an HTTP POST. See *CURLOPT_POST(3)*

CURLOPT_POSTFIELDS

Send a POST with this data – does not copy it. 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_POSTQUOTE

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

CURLOPT_POSTREDIR

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

CURLOPT_PREQUOTE

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

CURLOPT_PREREQDATA

Data pointer to pass to the *CURLOPT_PREREQFUNCTION* callback. See *CURLOPT_PREREQ-DATA(3)*

CURLOPT_PREREQFUNCTION

Callback to be called after a connection is established but before a request is made on that connection. See *CURLOPT_PREREQFUNCTION(3)*

CURLOPT_PRE_PROXY

Socks proxy to use. See *CURLOPT_PRE_PROXY(3)*

CURLOPT_PRIVATE

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

CURLOPT_PROGRESSDATA

Data pointer to pass to the progress meter callback. See *CURLOPT_PROGRESSDATA(3)*

CURLOPT_PROGRESSFUNCTION

OBSOLETE callback for progress meter. See *CURLOPT_PROGRESSFUNCTION(3)*

CURLOPT_PROTOCOLS

Deprecated option Allowed protocols. See *CURLOPT_PROTOCOLS(3)*

CURLOPT_PROTOCOLS_STR

Allowed protocols. See *CURLOPT_PROTOCOLS_STR(3)*

CURLOPT_PROXY

Proxy to use. See *CURLOPT_PROXY(3)*

CURLOPT_PROXYAUTH

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

CURLOPT_PROXYHEADER

Custom HTTP headers sent to proxy. See *CURLOPT_PROXYHEADER(3)*

CURLOPT_PROXYPASSWORD

Proxy password. See *CURLOPT_PROXYPASSWORD(3)*

CURLOPT_PROXYPORT

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

CURLOPT_PROXYTYPE

Proxy type. See *CURLOPT_PROXYTYPE(3)*

CURLOPT_PROXYUSERNAME

Proxy username. See *CURLOPT_PROXYUSERNAME(3)*

CURLOPT_PROXYUSERPWD

Proxy username and password. See *CURLOPT_PROXYUSERPWD(3)*

CURLOPT_PROXY_CAINFO

Proxy CA cert bundle. See *CURLOPT_PROXY_CAINFO(3)*

CURLOPT_PROXY_CAINFO_BLOB

Proxy CA cert bundle memory buffer. See *CURLOPT_PROXY_CAINFO_BLOB(3)*

CURLOPT_PROXY_CAPATH

Path to proxy CA cert bundle. See *CURLOPT_PROXY_CAPATH(3)*

CURLOPT_PROXY_CRLFILE

Proxy Certificate Revocation List. See *CURLOPT_PROXY_CRLFILE(3)*

CURLOPT_PROXY_ISSUERCERT

Proxy issuer certificate. See *CURLOPT_PROXY_ISSUERCERT(3)*

CURLOPT_PROXY_ISSUERCERT_BLOB

Proxy issuer certificate memory buffer. See *CURLOPT_PROXY_ISSUERCERT_BLOB(3)*

CURLOPT_PROXY_KEYPASSWD

Proxy client key password. See *CURLOPT_PROXY_KEYPASSWD(3)*

CURLOPT_PROXY_PINNEDPUBLICKEY

Set the proxy's pinned SSL public key. See *CURLOPT_PROXY_PINNEDPUBLICKEY(3)*

CURLOPT_PROXY_SERVICE_NAME

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

CURLOPT_PROXY_SSLCERT

Proxy client cert. See *CURLOPT_PROXY_SSLCERT(3)*

CURLOPT_PROXY_SSLCERTTYPE

Proxy client cert type. See *CURLOPT_PROXY_SSLCERTTYPE(3)*

CURLOPT_PROXY_SSLCERT_BLOB

Proxy client cert memory buffer. See *CURLOPT_PROXY_SSLCERT_BLOB(3)*

CURLOPT_PROXY_SSLKEY

Proxy client key. See *CURLOPT_PROXY_SSLKEY(3)*

CURLOPT_PROXY_SSLKEYTYPE

Proxy client key type. See *CURLOPT_PROXY_SSLKEYTYPE(3)*

CURLOPT_PROXY_SSLKEY_BLOB

Proxy client key. See *CURLOPT_PROXY_SSLKEY_BLOB(3)*

CURLOPT_PROXY_SSLVERSION

Proxy SSL version to use. See *CURLOPT_PROXY_SSLVERSION(3)*

CURLOPT_PROXY_SSL_CIPHER_LIST

Proxy ciphers to use. See *CURLOPT_PROXY_SSL_CIPHER_LIST(3)*

CURLOPT_PROXY_SSL_OPTIONS

Control proxy SSL behavior. See *CURLOPT_PROXY_SSL_OPTIONS(3)*

CURLOPT_PROXY_SSL_VERIFYHOST

Verify the hostname in the proxy SSL certificate. See *CURLOPT_PROXY_SSL_VERIFYHOST(3)*

CURLOPT_PROXY_SSL_VERIFYPEER

Verify the proxy SSL certificate. See *CURLOPT_PROXY_SSL_VERIFYPEER(3)*

CURLOPT_PROXY_TLS13_CIPHERS

Proxy TLS 1.3 cipher suites to use. See *CURLOPT_PROXY_TLS13_CIPHERS(3)*

CURLOPT_PROXY_TLSAUTH_PASSWORD

Proxy TLS authentication password. See *CURLOPT_PROXY_TLSAUTH_PASSWORD(3)*

CURLOPT_PROXY_TLSAUTH_TYPE

Proxy TLS authentication methods. See *CURLOPT_PROXY_TLSAUTH_TYPE(3)*

CURLOPT_PROXY_TLSAUTH_USERNAME

Proxy TLS authentication username. See *CURLOPT_PROXY_TLSAUTH_USERNAME(3)*

CURLOPT_PROXY_TRANSFER_MODE

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

CURLOPT_PUT

Deprecated option Issue an HTTP PUT request. See *CURLOPT_PUT(3)*

CURLOPT_QUICK_EXIT

To be set by toplevel tools like "curl" to skip lengthy cleanups when they are about to call exit() anyway. See *CURLOPT_QUICK_EXIT(3)*

CURLOPT_QUOTE

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

CURLOPT_RANDOM_FILE

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

CURLOPT_RANGE

Range requests. See *CURLOPT_RANGE(3)*

CURLOPT_READDATA

Data pointer to pass to the read callback. See *CURLOPT_READDATA(3)*

CURLOPT_READFUNCTION

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

CURLOPT_REDIR_PROTOCOLS

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

CURLOPT_REDIR_PROTOCOLS_STR

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

CURLOPT_REFERER

Referer: header. See *CURLOPT_REFERER(3)*

CURLOPT_REQUEST_TARGET

Set the request target. *CURLOPT_REQUEST_TARGET(3)*

CURLOPT_RESOLVE

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

CURLOPT_RESOLVER_START_DATA

Data pointer to pass to resolver start callback. See *CURLOPT_RESOLVER_START_DATA(3)*

CURLOPT_RESOLVER_START_FUNCTION

Callback to be called before a new resolve request is started. See *CURLOPT_RESOLVER_START_FUNCTION(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_RTSP_CLIENT_CSEQ

Client CSEQ number. See *CURLOPT_RTSP_CLIENT_CSEQ(3)*

CURLOPT_RTSP_REQUEST

RTSP request. See *CURLOPT_RTSP_REQUEST(3)*

CURLOPT_RTSP_SERVER_CSEQ

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

SASL authorization identity (identity to act as). See *CURLOPT_SASL_AUTHZID(3)*

CURLOPT_SASL_IR

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

CURLOPT_SEEKDATA

Data pointer to pass to the seek callback. See *CURLOPT_SEEKDATA(3)*

CURLOPT_SEEKFUNCTION

Callback for seek operations. See *CURLOPT_SEEKFUNCTION(3)*

CURLOPT_SERVER_RESPONSE_TIMEOUT

Timeout for server responses. See *CURLOPT_SERVER_RESPONSE_TIMEOUT(3)*

- CURLOPT_SERVER_RESPONSE_TIMEOUT_MS**
Timeout for server responses. See *CURLOPT_SERVER_RESPONSE_TIMEOUT_MS(3)*
- CURLOPT_SERVICE_NAME**
Authentication service name. *CURLOPT_SERVICE_NAME(3)*
- CURLOPT_SHARE**
Share object to use. See *CURLOPT_SHARE(3)*
- CURLOPT_SOCKOPTDATA**
Data pointer to pass to the sockopt callback. See *CURLOPT_SOCKOPTDATA(3)*
- CURLOPT_SOCKOPTFUNCTION**
Callback for sockopt operations. See *CURLOPT_SOCKOPTFUNCTION(3)*
- CURLOPT SOCKS5_AUTH**
Socks5 authentication methods. See *CURLOPT SOCKS5_AUTH(3)*
- CURLOPT SOCKS5_GSSAPI_NEC**
Socks5 GSSAPI NEC mode. See *CURLOPT SOCKS5_GSSAPI_NEC(3)*
- CURLOPT SOCKS5_GSSAPI_SERVICE**
Deprecated option Socks5 GSSAPI service name. See *CURLOPT SOCKS5_GSSAPI_SERVICE(3)*
- CURLOPT_SSH_AUTH_TYPES**
SSH authentication types. See *CURLOPT_SSH_AUTH_TYPES(3)*
- CURLOPT_SSH_COMPRESSION**
Enable SSH compression. See *CURLOPT_SSH_COMPRESSION(3)*
- CURLOPT_SSH_HOSTKEYDATA**
Custom pointer to pass to ssh host key callback. See *CURLOPT_SSH_HOSTKEYDATA(3)*
- CURLOPT_SSH_HOSTKEYFUNCTION**
Callback for checking host key handling. See *CURLOPT_SSH_HOSTKEYFUNCTION(3)*
- CURLOPT_SSH_HOST_PUBLIC_KEY_MD5**
MD5 of host's public key. See *CURLOPT_SSH_HOST_PUBLIC_KEY_MD5(3)*
- CURLOPT_SSH_HOST_PUBLIC_KEY_SHA256**
SHA256 of host's public key. See *CURLOPT_SSH_HOST_PUBLIC_KEY_SHA256(3)*
- CURLOPT_SSH_KEYDATA**
Custom pointer to pass to ssh key callback. See *CURLOPT_SSH_KEYDATA(3)*
- CURLOPT_SSH_KEYFUNCTION**
Callback for known hosts handling. See *CURLOPT_SSH_KEYFUNCTION(3)*
- CURLOPT_SSH_KNOWNHOSTS**
Filename with known hosts. See *CURLOPT_SSH_KNOWNHOSTS(3)*
- CURLOPT_SSH_PRIVATE_KEYFILE**
Filename of the private key. See *CURLOPT_SSH_PRIVATE_KEYFILE(3)*
- CURLOPT_SSH_PUBLIC_KEYFILE**
Filename of the public key. See *CURLOPT_SSH_PUBLIC_KEYFILE(3)*
- CURLOPT_SSLCERT**
Client cert. See *CURLOPT_SSLCERT(3)*
- CURLOPT_SSLCERTTYPE**
Client cert type. See *CURLOPT_SSLCERTTYPE(3)*
- CURLOPT_SSLCERT_BLOB**
Client cert memory buffer. See *CURLOPT_SSLCERT_BLOB(3)*

CURLOPT_SSLENGINE

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

CURLOPT_SSLENGINE_DEFAULT

Default SSL engine. See *CURLOPT_SSLENGINE_DEFAULT(3)*

CURLOPT_SSLKEY

Client key. See *CURLOPT_SSLKEY(3)*

CURLOPT_SSLKEYTYPE

Client key type. See *CURLOPT_SSLKEYTYPE(3)*

CURLOPT_SSLKEY_BLOB

Client key memory buffer. See *CURLOPT_SSLKEY_BLOB(3)*

CURLOPT_SSLVERSION

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

CURLOPT_SSL_CIPHER_LIST

Ciphers to use. See *CURLOPT_SSL_CIPHER_LIST(3)*

CURLOPT_SSL_CTX_DATA

Data pointer to pass to the SSL context callback. See *CURLOPT_SSL_CTX_DATA(3)*

CURLOPT_SSL_CTX_FUNCTION

Callback for SSL context logic. See *CURLOPT_SSL_CTX_FUNCTION(3)*

CURLOPT_SSL_EC_CURVES

Set key exchange curves. See *CURLOPT_SSL_EC_CURVES(3)*

CURLOPT_SSL_ENABLE_ALPN

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

CURLOPT_SSL_ENABLE_NPN

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

CURLOPT_SSL_FALSESTART

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

CURLOPT_SSL_OPTIONS

Control SSL behavior. See *CURLOPT_SSL_OPTIONS(3)*

CURLOPT_SSL_SESSIONID_CACHE

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

CURLOPT_SSL_SIGNATURE_ALGORITHMS

TLS signature algorithms to use. See *CURLOPT_SSL_SIGNATURE_ALGORITHMS(3)*

CURLOPT_SSL_VERIFYHOST

Verify the hostname 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_STDERR

Redirect stderr to another stream. See *CURLOPT_STDERR(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)*

CURLOPT_SUPPRESS_CONNECT_HEADERS

Suppress proxy CONNECT response headers from user callbacks. See *CURLOPT_SUPPRESS_CONNECT_HEADERS(3)*

CURLOPT_TCP_FASTOPEN

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

CURLOPT_TCP_KEEPALIVE

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

CURLOPT_TCP_KEEPCNT

Maximum number of keep-alive probes. See *CURLOPT_TCP_KEEPCNT(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_TCP_NODELAY

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

CURLOPT_TELNETOPTIONS

TELNET options. See *CURLOPT_TELNETOPTIONS(3)*

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)*

CURLOPT_TIMECONDITION

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

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_TIMEVALUE

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

CURLOPT_TIMEVALUE_LARGE

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

CURLOPT_TLS13_CIPHERS

TLS 1.3 cipher suites to use. See *CURLOPT_TLS13_CIPHERS(3)*

CURLOPT_TLSAUTH_PASSWORD

TLS authentication password. See *CURLOPT_TLSAUTH_PASSWORD(3)*

CURLOPT_TLSAUTH_TYPE

TLS authentication methods. See *CURLOPT_TLSAUTH_TYPE(3)*

CURLOPT_TLSAUTH_USERNAME

TLS authentication username. See *CURLOPT_TLSAUTH_USERNAME(3)*

CURLOPT_TRAILERDATA

Custom pointer passed to the trailing headers callback. See *CURLOPT_TRAILERDATA(3)*

CURLOPT_TRAILERFUNCTION

Set callback for sending trailing headers. See *CURLOPT_TRAILERFUNCTION(3)*

CURLOPT_TRANSFERTEXT

Use text transfer. See *CURLOPT_TRANSFERTEXT(3)*

CURLOPT_TRANSFER_ENCODING

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

CURLOPT_UNIX_SOCKET_PATH

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

CURLOPT_UNRESTRICTED_AUTH

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

CURLOPT_UPKEEP_INTERVAL_MS

Sets the interval at which connection upkeep are performed. See *CURLOPT_UPKEEP_INTERVAL_MS(3)*

CURLOPT_UPLOAD

Upload data. See *CURLOPT_UPLOAD(3)*

CURLOPT_UPLOAD_BUFFERSIZE

Set upload buffer size. See *CURLOPT_UPLOAD_BUFFERSIZE(3)*

CURLOPT_UPLOAD_FLAGS

Set upload flags. See *CURLOPT_UPLOAD_FLAGS(3)*

CURLOPT_URL

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

CURLOPT_USERAGENT

User-Agent: header. See *CURLOPT_USERAGENT(3)*

CURLOPT_USERNAME

Username. See *CURLOPT_USERNAME(3)*

CURLOPT_USERPWD

Username and password. See *CURLOPT_USERPWD(3)*

CURLOPT_USE_SSL

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

CURLOPT_VERBOSE

Display verbose information. See *CURLOPT_VERBOSE(3)*

CURLOPT_WILDCARDMATCH

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

CURLOPT_WRITEDATA

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

CURLOPT_WRITEFUNCTION

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

CURLOPT_WS_OPTIONS

Set WebSocket options. See *CURLOPT_WS_OPTIONS(3)*

CURLOPT_XFERINFODATA

Data pointer to pass to the progress meter callback. See *CURLOPT_XFERINFODATA(3)*

CURLOPT_XFERINFOFUNCTION

Callback for progress meter. See *CURLOPT_XFERINFOFUNCTION(3)*

CURLOPT_XOAUTH2_BEARER

OAuth2 bearer token. See *CURLOPT_XOAUTH2_BEARER(3)*

PROTOCOLS

This functionality affects all supported protocols

EXAMPLE

```
int main(void)
{
    CURL *curl = curl_easy_init();
    if(curl) {
        CURLcode result;
        curl_easy_setopt(curl, CURLOPT_URL, "https://example.com");
        result = curl_easy_perform(curl);
        curl_easy_cleanup(curl);
    }
}
```

AVAILABILITY

Added in curl 7.1

RETURN VALUE

This function returns a CURLcode indicating success or error.

CURLE_OK (0) means everything was OK, non-zero means an error occurred, see *libcurl-errors(3)*. If *CURLOPT_ERRORBUFFER(3)* was set with *curl_easy_setopt(3)* there can be an error message stored in the error buffer when non-zero is returned.

Strings passed on to libcurl must be shorter than 8000000 bytes, otherwise *curl_easy_setopt(3)* returns **CURLE_BAD_FUNCTION_ARGUMENT** (added in 7.65.0).

CURLE_BAD_FUNCTION_ARGUMENT is returned when the argument to an option is invalid, like perhaps out of range.

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

SEE ALSO

curl_easy_cleanup(3), **curl_easy_getinfo(3)**, **curl_easy_init(3)**, **curl_easy_option_by_id(3)**, **curl_easy_option_by_name(3)**, **curl_easy_option_next(3)**, **curl_easy_reset(3)**, **curl_multi_setopt(3)**