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.

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_COPYPOSTFIELDS(3)* has some usage characteristics you need to read up on.

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_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_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)*

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)*

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_multi_setopt**(3),