NAME

curl_easy_getinfo - extract information from a curl handle

SYNOPSIS

#include <curl/curl.h>

CURLcode curl_easy_getinfo(CURL *curl, CURLINFO info, ...);

DESCRIPTION

Request internal information from the curl session with this function. The third argument **MUST** be a pointer to a long, a pointer to a char *, a pointer to a struct curl_slist * or a pointer to a double (as this documentation describes further down). The data pointed-to will be filled in accordingly and can be relied upon only if the function returns CURLE_OK. Use this function AFTER a performed transfer if you want to get transfer related data.

You should not free the memory returned by this function unless it is explicitly mentioned below.

AVAILABLE INFORMATION

The following information can be extracted:

CURLINFO EFFECTIVE URL

Last used URL. See CURLINFO EFFECTIVE URL(3)

CURLINFO RESPONSE CODE

Last received response code. See CURLINFO_RESPONSE_CODE(3)

CURLINFO_HTTP_CONNECTCODE

Last proxy CONNECT response code. See CURLINFO_HTTP_CONNECTCODE(3)

CURLINFO FILETIME

Remote time of the retrieved document. See *CURLINFO_FILETIME*(3)

CURLINFO_TOTAL_TIME

Total time of previous transfer. See CURLINFO_TOTAL_TIME(3)

CURLINFO_NAMELOOKUP_TIME

Time from start until name resolving completed. See CURLINFO_NAMELOOKUP_TIME(3)

CURLINFO_CONNECT_TIME

Time from start until remote host or proxy completed. See CURLINFO_CONNECT_TIME(3)

CURLINFO_APPCONNECT_TIME

Time from start until SSL/SSH handshake completed. See CURLINFO_APPCONNECT_TIME(3)

CURLINFO PRETRANSFER TIME

Time from start until just before the transfer begins. See CURLINFO_PRETRANSFER_TIME(3)

CURLINFO_STARTTRANSFER_TIME

Time from start until just when the first byte is received. See CURLINFO_STARTTRANS-FER_TIME(3)

CURLINFO_REDIRECT_TIME

Time taken for all redirect steps before the final transfer. See CURLINFO_REDIRECT_TIME(3)

CURLINFO_REDIRECT_COUNT

Total number of redirects that were followed. See CURLINFO_REDIRECT_COUNT(3)

CURLINFO_REDIRECT_URL

URL a redirect would take you to, had you enabled redirects. See CURLINFO_REDI-RECT_URL(3)

CURLINFO_SIZE_UPLOAD

Number of bytes uploaded. See CURLINFO_SIZE_UPLOAD(3)

CURLINFO_SIZE_DOWNLOAD

Number of bytes downloaded. See CURLINFO_SIZE_DOWNLOAD(3)

CURLINFO_SPEED_DOWNLOAD

Average download speed. See CURLINFO_SPEED_DOWNLOAD(3)

CURLINFO SPEED UPLOAD

Average upload speed. See CURLINFO_SPEED_UPLOAD(3)

CURLINFO HEADER SIZE

Number of bytes of all headers received. See CURLINFO HEADER SIZE(3)

CURLINFO_REQUEST_SIZE

Number of bytes sent in the issued HTTP requests. See CURLINFO_REQUEST_SIZE(3)

CURLINFO_SSL_VERIFYRESULT

Certificate verification result. See CURLINFO_SSL_VERIFYRESULT(3)

CURLINFO_SSL_ENGINES

A list of OpenSSL crypto engines. See CURLINFO_SSL_ENGINES(3)

CURLINFO_CONTENT_LENGTH_DOWNLOAD

Content length from the Content-Length header. See *CURLINFO_CONTENT_LENGTH_DOWN-LOAD(3)*

CURLINFO_CONTENT_LENGTH_UPLOAD

Upload size. See CURLINFO_CONTENT_LENGTH_UPLOAD(3)

CURLINFO_CONTENT_TYPE

Content type from the Content-Type header. See *CURLINFO_CONTENT_TYPE(3)*

CURLINFO PRIVATE

User's private data pointer. See CURLINFO_PRIVATE(3)

CURLINFO_HTTPAUTH_AVAIL

Available HTTP authentication methods. See CURLINFO_HTTPAUTH_AVAIL(3)

CURLINFO_PROXYAUTH_AVAIL

Available HTTP proxy authentication methods. See CURLINFO_PROXYAUTH_AVAIL(3)

CURLINFO OS ERRNO

The errno from the last failure to connect. See CURLINFO_OS_ERRNO(3)

CURLINFO_NUM_CONNECTS

Number of new successful connections used for previous transfer. See *CURLINFO_NUM_CON-NECTS(3)*

CURLINFO_PRIMARY_IP

IP address of the last connection. See CURLINFO_PRIMARY_IP(3)

CURLINFO_PRIMARY_PORT

Port of the last connection. See CURLINFO_PRIMARY_PORT(3)

CURLINFO_LOCAL_IP

Local-end IP address of last connection. See CURLINFO_LOCAL_IP(3)

CURLINFO_LOCAL_PORT

Local-end port of last connection. See CURLINFO LOCAL PORT(3)

CURLINFO_COOKIELIST

List of all known cookies. See CURLINFO_COOKIELIST(3)

CURLINFO_LASTSOCKET

Last socket used. See CURLINFO_LASTSOCKET(3)

CURLINFO_ACTIVESOCKET

The session's active socket. See CURLINFO_ACTIVESOCKET(3)

CURLINFO_FTP_ENTRY_PATH

The entry path after logging in to an FTP server. See CURLINFO_FTP_ENTRY_PATH(3)

CURLINFO_CERTINFO

Certificate chain. See CURLINFO_CERTINFO(3)

CURLINFO TLS SSL PTR

TLS session info that can be used for further processing. See CURLINFO_TLS_SSL_PTR(3)

CURLINFO_CONDITION_UNMET

Whether or not a time conditional was met. See CURLINFO_CONDITION_UNMET(3)

CURLINFO_RTSP_SESSION_ID

RTSP session ID. See CURLINFO_RTSP_SESSION_ID(3)

CURLINFO_RTSP_CLIENT_CSEQ

RTSP CSeq that will next be used. See CURLINFO_RTSP_CLIENT_CSEQ(3)

CURLINFO_RTSP_SERVER_CSEQ

RTSP CSeq that will next be expected. See CURLINFO_RTSP_SERVER_CSEQ(3)

CURLINFO_RTSP_CSEQ_RECV

RTSP CSeq last received. See CURLINFO_RTSP_CSEQ_RECV(3)

TIMES

An overview of the six time values available from curl_easy_getinfo()

```
curl_easy_perform()

|--NAMELOOKUP
|--|--CONNECT
|--|--|--PRETRANSFER
|--|--|--|--STARTTRANSFER
|--|--|--|--|--TOTAL
|--|--|--|--|--REDIRECT
```

NAMELOOKUP

CURLINFO_NAMELOOKUP_TIME. The time it took from the start until the name resolving was completed.

CONNECT

CURLINFO_CONNECT_TIME. The time it took from the start until the connect to the remote host (or proxy) was completed.

APPCONNECT

CURLINFO_APPCONNECT_TIME. The time it took from the start until the SSL connect/hand-shake with the remote host was completed. (Added in in 7.19.0)

PRETRANSFER

CURLINFO_PRETRANSFER_TIME. The time it took from the start until the file transfer is just about to begin. This includes all pre-transfer commands and negotiations that are specific to the particular protocol(s) involved.

STARTTRANSFER

CURLINFO_STARTTRANSFER_TIME. The time it took from the start until the first byte is received by libcurl.

TOTAL

CURLINFO_TOTAL_TIME. Total time of the previous request.

REDIRECT

CURLINFO_REDIRECT_TIME. The time it took for all redirection steps include name lookup, connect, pretransfer and transfer before final transaction was started. So, this is zero if no redirection took place.

RETURN VALUE

If the operation was successful, CURLE_OK is returned. Otherwise an appropriate error code will be returned.

SEE ALSO

 $\boldsymbol{curl_easy_setopt}(3)$