cURL / libcurl / API / **curl_easy_getinfo**

curl_easy_getinfo - extract information from a curl handle

NAME

Related: info options multi options API

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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

CURLINFO_RESPONSE_CODE

Last received response code. See CURLINFO_RESPONSE_CODE

CURLINFO_HTTP_CONNECTCODE

Last proxy CONNECT response code. See CURLINFO_HTTP_CONNECTCODE

CURLINFO_HTTP_VERSION

The http version used in the connection. See CURLINFO_HTTP_VERSION

CURLINFO_FILETIME

Remote time of the retrieved document. See CURLINFO_FILETIME

CURLINFO_TOTAL_TIME

Total time of previous transfer. See CURLINFO_TOTAL_TIME

CURLINFO_NAMELOOKUP_TIME

Time from start until name resolving completed. See
CURLINFO_NAMELOOKUP_TIME

CURLINFO_CONNECT_TIME

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

CURLINFO_APPCONNECT_TIME

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

CURLINFO_PRETRANSFER_TIME

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

CURLINFO_STARTTRANSFER_TIME

Time from start until just when the first byte is received. See
CURLINFO_STARTTRANSFER_TIME

CURLINFO_REDIRECT_TIME

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

CURLINFO_REDIRECT_COUNT

Total number of redirects that were followed. See CURLINFO_REDIRECT_COUNT

CURLINFO_REDIRECT_URL

URL a redirect would take you to, had you enabled redirects. See
CURLINFO_REDIRECT_URL

CURLINFO_SIZE_UPLOAD

Number of bytes uploaded. See CURLINFO_SIZE_UPLOAD

CURLINFO_SIZE_DOWNLOAD

Number of bytes downloaded. See CURLINFO_SIZE_DOWNLOAD

CURLINFO_SPEED_DOWNLOAD

Average download speed. See CURLINFO_SPEED_DOWNLOAD

CURLINFO_SPEED_UPLOAD

Average upload speed. See CURLINFO_SPEED_UPLOAD

CURLINFO_HEADER_SIZE

Number of bytes of all headers received. See CURLINFO_HEADER_SIZE

CURLINFO_REQUEST_SIZE

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

CURLINFO_SSL_VERIFYRESULT

Certificate verification result. See CURLINFO_SSL_VERIFYRESULT

CURLINFO_SSL_ENGINES

A list of OpenSSL crypto engines. See CURLINFO_SSL_ENGINES

CURLINFO_CONTENT_LENGTH_DOWNLOAD

Content length from the Content-Length header. See
CURLINFO_CONTENT_LENGTH_DOWNLOAD

CURLINFO_CONTENT_LENGTH_UPLOAD

Upload size. See CURLINFO_CONTENT_LENGTH_UPLOAD

CURLINFO_CONTENT_TYPE

Content type from the Content-Type header. See CURLINFO_CONTENT_TYPE

CURLINFO_PRIVATE

User's private data pointer. See CURLINFO_PRIVATE

CURLINFO_HTTPAUTH_AVAIL

Available HTTP authentication methods. See CURLINFO_HTTPAUTH_AVAIL

CURLINFO_PROXYAUTH_AVAIL

Available HTTP proxy authentication methods. See
CURLINFO_PROXYAUTH_AVAIL

CURLINFO_OS_ERRNO

The errno from the last failure to connect. See CURLINFO_OS_ERRNO

CURLINFO_NUM_CONNECTS

Number of new successful connections used for previous transfer. See

CURLINFO_NUM_CONNECTS

CURLINFO_PRIMARY_IP

IP address of the last connection. See CURLINFO_PRIMARY_IP

CURLINFO_PRIMARY_PORT

Port of the last connection. See CURLINFO_PRIMARY_PORT

CURLINFO_LOCAL_IP

Local-end IP address of last connection. See CURLINFO_LOCAL_IP

CURLINFO_LOCAL_PORT

Local-end port of last connection. See CURLINFO_LOCAL_PORT

CURLINFO_COOKIELIST

List of all known cookies. See CURLINFO_COOKIELIST

CURLINFO_LASTSOCKET

Last socket used. See CURLINFO_LASTSOCKET

CURLINFO_ACTIVESOCKET

The session's active socket. See CURLINFO_ACTIVESOCKET

CURLINFO_FTP_ENTRY_PATH

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

CURLINFO_CERTINFO

Certificate chain. See CURLINFO_CERTINFO

CURLINFO_TLS_SSL_PTR

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

CURLINFO_TLS_SESSION

TLS session info that can be used for further processing. See
CURLINFO_TLS_SESSION. Deprecated option, use CURLINFO_TLS_SSL_PTR
instead!

CURLINFO_CONDITION_UNMET

Whether or not a time conditional was met. See CURLINFO_CONDITION_UNMET

CURLINFO_RTSP_SESSION_ID

RTSP session ID. See CURLINFO_RTSP_SESSION_ID

CURLINFO_RTSP_CLIENT_CSEQ

> RTSP CSeq that will next be used. See CURLINFO_RTSP_CLIENT_CSEQ

CURLINFO_RTSP_SERVER_CSEQ

> RTSP CSeq that will next be expected. See CURLINFO_RTSP_SERVER_CSEQ

CURLINFO_RTSP_CSEQ_RECV

> RTSP CSeq last received. See CURLINFO_RTSP_CSEQ_RECV

TIMES

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

```
curl_easy_perform()
    |
    |--NAMELOOKUP
    |--|--CONNECT
    |--|--|--APPCONNECT
    |--|--|--|--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/handshake 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

curl_easy_setopt

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