

**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\_STARTTRANSFER\_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\_REDIRECT\_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\_DOWNLOAD(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\_CONNECTS(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\_SESSION**

TLS session info that can be used for further processing. See *CURLINFO\_TLS\_SESSION(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
|--|--|--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(3)**