

NAME

CURLINFO_CERTINFO – TLS certificate chain

SYNOPSIS

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

```
CURLcode curl_easy_getinfo(CURL *handle, CURLINFO_CERTINFO,
                           struct curl_certinfo **chainp);
```

DESCRIPTION

Pass a pointer to a *struct curl_certinfo* * and it is set to point to a struct that holds info about the server's certificate chain, assuming you had *CURLOPT_CERTINFO(3)* enabled when the request was made.

```
struct curl_certinfo {
    int num_of_certs;
    struct curl_slist **certinfo;
};
```

The *certinfo* struct member is an array of linked lists of certificate information. The *num_of_certs* struct member is the number of certificates which is the number of elements in the array. Each certificate's list has items with textual information in the format "name:content" such as "Subject:Foo", "Issuer:Bar", etc. The items in each list varies depending on the SSL backend and the certificate.

PROTOCOLS

This functionality affects all TLS based protocols: HTTPS, FTPS, IMAPS, POP3S, SMTPS etc.

This option works only with the following TLS backends: GnuTLS, OpenSSL, Rustls and Schannel

EXAMPLE

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

        /* connect to any HTTPS site, trusted or not */
        curl_easy_setopt(curl, CURLOPT_SSL_VERIFYPEER, 0L);
        curl_easy_setopt(curl, CURLOPT_SSL_VERIFYHOST, 0L);

        curl_easy_setopt(curl, CURLOPT_CERTINFO, 1L);

        result = curl_easy_perform(curl);

        if(result == CURLE_OK) {
            int i;
            struct curl_certinfo *ci;
            result = curl_easy_getinfo(curl, CURLINFO_CERTINFO, &ci);

            if(result == CURLE_OK) {
                printf("%d certs!\n", ci->num_of_certs);

                for(i = 0; i < ci->num_of_certs; i++) {
                    struct curl_slist *slist;

                    for(slist = ci->certinfo[i]; slist; slist = slist->next)
                        printf("%s\n", slist->data);
                }
            }
        }
    }
}
```

```
    }  
  }  
}  
curl_easy_cleanup(curl);  
}  
}
```

See also the *certinfo.c* example.

HISTORY

GnuTLS support added in 7.42.0. Schannel support added in 7.50.0. mbedTLS support added in 8.9.0.

AVAILABILITY

Added in curl 7.19.1

RETURN VALUE

curl_easy_getinfo(3) returns a CURLcode indicating success or error.

CURLE_OK (0) means everything was OK, non-zero means an error occurred, see *libcurl-errors(3)*.

SEE ALSO

CURLINFO_CAPATH(3), *curl_easy_getinfo(3)*, *curl_easy_setopt(3)*