

NAME

CURLINFO_APPCONNECT_TIME – time until the SSL/SSH handshake is completed

SYNOPSIS

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

```
CURLcode curl_easy_getinfo(CURL *handle, CURLINFO_APPCONNECT_TIME,  
                           double *timep);
```

DESCRIPTION

Pass a pointer to a double to receive the time, in seconds, it took from the start until the SSL/SSH connect/handshake to the remote host was completed. This time is most often close to the *CURLINFO_PRETRANSFER_TIME(3)* time, except for cases such as HTTP multiplexing where the pretransfer time can be delayed due to waits in line for the stream and more.

When a redirect is followed, the time from each request is added together.

See also the TIMES overview in the *curl_easy_getinfo(3)* man page.

PROTOCOLS

This functionality affects all supported protocols

EXAMPLE

```
int main(void)
{
    CURL *curl = curl_easy_init();
    if(curl) {
        CURLcode result;
        double connect;
        curl_easy_setopt(curl, CURLOPT_URL, "https://example.com/");
        result = curl_easy_perform(curl);
        if(result == CURLE_OK) {
            result = curl_easy_getinfo(curl, CURLINFO_APPCONNECT_TIME, &connect);
            if(result == CURLE_OK) {
                printf("Time: %.1f", connect);
            }
        }
        /* always cleanup */
        curl_easy_cleanup(curl);
    }
}
```

AVAILABILITY

Added in curl 7.19.0

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_APPCONNECT_TIME_T(3), **curl_easy_getinfo(3)**, **curl_easy_setopt(3)**