

NAME

CURLINFO_STARTTRANSFER_TIME_T – time to first byte received

SYNOPSIS

#include <curl/curl.h>

```
CURLcode curl_easy_getinfo(CURL *handle, CURLINFO_STARTTRANSFER_TIME_T,
                           curl_off_t *timep);
```

DESCRIPTION

Pass a pointer to a curl_off_t to receive the time, in microseconds, it took from the start until the first byte is received by libcurl. This includes *CURLINFO_PRETRANSFER_TIME_T(3)* and also the time the server needs to calculate the result.

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;
        curl_off_t start;
        curl_easy_setopt(curl, CURLOPT_URL, "https://example.com");
        result = curl_easy_perform(curl);
        if(result == CURLE_OK) {
            result = curl_easy_getinfo(curl, CURLINFO_STARTTRANSFER_TIME_T, &start);
            if(result == CURLE_OK) {
                printf("Time: %" CURL_FORMAT_CURL_OFF_T ".%06ld", start / 1000000,
                    (long)(start % 1000000));
            }
        }
        /* always cleanup */
        curl_easy_cleanup(curl);
    }
}
```

AVAILABILITY

Added in curl 7.61.0

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_STARTTRANSFER_TIME(3), CURLOPT_TIMEOUT(3), curl_easy_getinfo(3),
curl_easy_setopt(3)**