

NAME

CURLOPT_STREAM_WEIGHT – numerical stream weight

SYNOPSIS

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

```
CURLcode curl_easy_setopt(CURL *handle, CURLOPT_STREAM_WEIGHT, long weight);
```

DESCRIPTION

Set the long *weight* to a number between 1 and 256.

When using HTTP/2, this option sets the individual weight for this particular stream used by the easy *handle*. Setting and using weights only makes sense and is only usable when doing multiple streams over the same connections, which thus implies that you use *CURLOPT_PIPELINING*(3).

This option can be set during transfer and causes the updated weight info get sent to the server the next time an HTTP/2 frame is sent to the server.

See section 5.3 of RFC 7540 for protocol details.

Streams with the same parent should be allocated resources proportionally based on their weight. If you have two streams going, stream A with weight 16 and stream B with weight 32, stream B gets two thirds (32/48) of the available bandwidth (assuming the server can send off the data equally for both streams).

DEFAULT

16

PROTOCOLS

This functionality affects http only

EXAMPLE

```
int main(void)
{
    CURL *curl = curl_easy_init();
    CURL *curl2 = curl_easy_init(); /* a second handle */
    if(curl) {
        curl_easy_setopt(curl, CURLOPT_URL, "https://example.com/one");
        curl_easy_setopt(curl, CURLOPT_STREAM_WEIGHT, 10L);

        /* the second has twice the weight */
        curl_easy_setopt(curl2, CURLOPT_URL, "https://example.com/two");
        curl_easy_setopt(curl2, CURLOPT_STREAM_WEIGHT, 20L);

        /* then add both to a multi handle and transfer them */
    }
}
```

AVAILABILITY

Added in curl 7.46.0

RETURN VALUE

curl_easy_setopt(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

CURLOPT_PIPELINING(3), *CURLOPT_PIPEWAIT*(3), *CURLOPT_STREAM_DEPENDS*(3), *CURLOPT_STREAM_DEPENDS_E*(3)