

**NAME**

CURLOPT\_PROTOCOLS – set allowed protocols

**SYNOPSIS**

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

```
CURLcode curl_easy_setopt(CURL *handle, CURLOPT_PROTOCOLS, long bitmask);
```

**DESCRIPTION**

Pass a long that holds a bitmask of `CURLPROTO_*` defines. If used, this bitmask limits what protocols libcurl may use in the transfer. This allows you to have a libcurl built to support a wide range of protocols but still limit specific transfers to only be allowed to use a subset of them. By default libcurl will accept all protocols it supports (`CURLPROTO_ALL`). See also `CURLOPT_REDIR_PROTOCOLS(3)`.

These are the available protocol defines:

```
CURLPROTO_DICT
CURLPROTO_FILE
CURLPROTO_FTP
CURLPROTO_FTPS
CURLPROTO_GOPHER
CURLPROTO_HTTP
CURLPROTO_HTTPS
CURLPROTO_IMAP
CURLPROTO_IMAPS
CURLPROTO_LDAP
CURLPROTO_LDAPS
CURLPROTO_POP3
CURLPROTO_POP3S
CURLPROTO_RTMP
CURLPROTO_RTMPE
CURLPROTO_RTMS
CURLPROTO_RTMP
CURLPROTO_RTMPTE
CURLPROTO_RTMPPTS
CURLPROTO_RTSP
CURLPROTO_SCP
CURLPROTO_SFTP
CURLPROTO_SMB
CURLPROTO_SMTP
CURLPROTO_SMTPS
CURLPROTO_TELNET
CURLPROTO_TFTP
```

**DEFAULT**

All protocols built-in

**PROTOCOLS**

All

**EXAMPLE**

```
curl = curl_easy_init();
if(curl) {
    /* pass in the URL from an external source */
    curl_easy_setopt(curl, CURLOPT_URL, argv[1]);

    /* only allow HTTP, TFTP and SFTP */
    curl_easy_setopt(curl, CURLOPT_PROTOCOLS,
```

```
CURLPROTO_HTTP | CURLPROTO_TFTP | CURLPROTO_SFTP);
```

```
/* Perform the request */  
curl_easy_perform(curl);  
}
```

**AVAILABILITY**

Added in 7.19.4

**RETURN VALUE**

Returns CURLE\_OK if the option is supported, and CURLE\_UNKNOWN\_OPTION if not.

**SEE ALSO**

**CURLOPT\_REDIRECT\_PROTOCOLS(3)**, **CURLOPT\_URL(3)**,