

**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_RTMP  
CURLPROTO_RTMPTE  
CURLPROTO_RTMPPTS  
CURLPROTO_RTSP  
CURLPROTO_SCP  
CURLPROTO_SFTP  
CURLPROTO_SMB  
CURLPROTO_SMBS  
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),**