

NAME

curl_version_info - returns run-time libcurl version info

SYNOPSIS

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

```
curl_version_info_data *curl_version_info( CURLversion type);
```

DESCRIPTION

Returns a pointer to a filled in struct with information about various run-time features in libcurl. *type* should be set to the version of this functionality by the time you write your program. This way, libcurl will always return a proper struct that your program understands, while programs in the future might get a different struct. CURLVERSION_NOW will be the most recent one for the library you have installed:

```
data = curl_version_info(CURLVERSION_NOW);
```

Applications should use this information to judge if things are possible to do or not, instead of using compile-time checks, as dynamic/DLL libraries can be changed independent of applications.

The curl_version_info_data struct looks like this

```
typedef struct {
    CURLversion age;          /* see description below */

    /* when 'age' is 0 or higher, the members below also exist: */
    const char *version;     /* human readable string */
    unsigned int version_num; /* numeric representation */
    const char *host;       /* human readable string */
    int features;          /* bitmask, see below */
    char *ssl_version;     /* human readable string */
    long ssl_version_num;  /* not used, always zero */
    const char *libz_version; /* human readable string */
    const char **protocols; /* list of protocols */

    /* when 'age' is 1 or higher, the members below also exist: */
    const char *ares;       /* human readable string */
    int ares_num;          /* number */

    /* when 'age' is 2 or higher, the member below also exists: */
    const char *libidn;     /* human readable string */

    /* when 'age' is 3 or higher, the members below also exist: */
    int iconv_ver_num;     /* '_libiconv_version' if iconv support enabled */

    const char *libssh_version; /* human readable string */

} curl_version_info_data;
```

age describes what the age of this struct is. The number depends on how new the libcurl you're using is. You are however guaranteed to get a struct that you have a matching struct for in the header, as you tell libcurl your "age" with the input argument.

version is just an ascii string for the libcurl version.

version_num is a 24 bit number created like this: <8 bits major number> | <8 bits minor number> | <8 bits patch number>. Version 7.9.8 is therefore returned as 0x070908.

host is an ascii string showing what host information that this libcurl was built for. As discovered by a configure script or set by the build environment.

features can have none, one or more bits set, and the currently defined bits are:

- CURL_VERSION_IPV6
supports IPv6
- CURL_VERSION_KERBEROS4
supports kerberos4 (when using FTP)
- CURL_VERSION_SSL
supports SSL (HTTPS/FTPS) (Added in 7.10)
- CURL_VERSION_LIBZ
supports HTTP deflate using libz (Added in 7.10)
- CURL_VERSION_NTLM
supports HTTP NTLM (added in 7.10.6)
- CURL_VERSION_GSSNEGOTIATE
supports HTTP GSS-Negotiate (added in 7.10.6)
- CURL_VERSION_DEBUG
libcurl was built with debug capabilities (added in 7.10.6)
- CURL_VERSION_CURLDEBUG
libcurl was built with memory tracking debug capabilities. This is mainly of interest for libcurl hackers. (added in 7.19.6)
- CURL_VERSION_ASYNC DNS
libcurl was built with support for asynchronous name lookups, which allows more exact timeouts (even on Windows) and less blocking when using the multi interface. (added in 7.10.7)
- CURL_VERSION_SPNEGO
libcurl was built with support for SPNEGO authentication (Simple and Protected GSS-API Negotiation Mechanism, defined in RFC 2478.) (added in 7.10.8)
- CURL_VERSION_LARGEFILE
libcurl was built with support for large files. (Added in 7.11.1)
- CURL_VERSION_IDN
libcurl was built with support for IDNA, domain names with international letters. (Added in 7.12.0)
- CURL_VERSION_SSPI
libcurl was built with support for SSPI. This is only available on Windows and makes libcurl use Windows-provided functions for NTLM authentication. It also allows libcurl to use the current user and the current user's password without the app having to pass them on. (Added in 7.13.2)
- CURL_VERSION_CONV
libcurl was built with support for character conversions, as provided by the CURLOPT_CONV_* callbacks. (Added in 7.15.4)

ssl_version is an ASCII string for the OpenSSL version used. If libcurl has no SSL support, this is NULL.

ssl_version_num is the numerical OpenSSL version value as defined by the OpenSSL project. If libcurl has no SSL support, this is 0.

libz_version is an ASCII string (there is no numerical version). If libcurl has no libz support, this is NULL.

protocols is a pointer to an array of char * pointers, containing the names protocols that libcurl supports

(using lowercase letters). The protocol names are the same as would be used in URLs. The array is terminated by a NULL entry.

RETURN VALUE

A pointer to a `curl_version_info_data` struct.

SEE ALSO

curl_version(3)