

## NAME

curl\_getdate - Convert a date string to number of seconds since January 1, 1970

## SYNOPSIS

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

```
time_t curl_getdate(char *datestring, time_t *now );
```

## DESCRIPTION

This function returns the number of seconds since January 1st 1970 in the UTC time zone, for the date and time that the *datestring* parameter specifies. The *now* parameter is not used, pass a NULL there.

**NOTE:** This function was rewritten for the 7.12.2 release and this documentation covers the functionality of the new one. The new one is not feature-complete with the old one, but most of the formats supported by the new one was supported by the old too.

## PARSING DATES AND TIMES

A "date" is a string containing several items separated by whitespace. The order of the items is immaterial. A date string may contain many flavors of items:

### calendar date items

Can be specified several ways. Month names can only be three-letter english abbreviations, numbers can be zero-prefixed and the year may use 2 or 4 digits. Examples: 06 Nov 1994, 06-Nov-94 and Nov-94 6.

### time of the day items

This string specifies the time on a given day. You must specify it with 6 digits with two colons: HH:MM:SS. To not include the time in a date string, will make the function assume 00:00:00. Example: 18:19:21.

### time zone items

Specifies international time zone. There are a few acronyms supported, but in general you should instead use the specific relative time compared to UTC. Supported formats include: -1200, MST, +0100.

### day of the week items

Specifies a day of the week. Days of the week may be spelled out in full (using english): 'Sunday', 'Monday', etc or they may be abbreviated to their first three letters. This is usually not info that adds anything.

### pure numbers

If a decimal number of the form YYYYMMDD appears, then YYYY is read as the year, MM as the month number and DD as the day of the month, for the specified calendar date.

## EXAMPLES

```
Sun, 06 Nov 1994 08:49:37 GMT
Sunday, 06-Nov-94 08:49:37 GMT
Sun Nov 6 08:49:37 1994
06 Nov 1994 08:49:37 GMT
06-Nov-94 08:49:37 GMT
Nov 6 08:49:37 1994
06 Nov 1994 08:49:37
06-Nov-94 08:49:37
1994 Nov 6 08:49:37
GMT 08:49:37 06-Nov-94 Sunday
94 6 Nov 08:49:37
1994 Nov 6
06-Nov-94
Sun Nov 6 94
```

1994.Nov.6  
Sun/Nov/6/94/GMT  
Sun, 06 Nov 1994 08:49:37 CET  
06 Nov 1994 08:49:37 EST  
Sun, 12 Sep 2004 15:05:58 -0700  
Sat, 11 Sep 2004 21:32:11 +0200  
20040912 15:05:58 -0700  
20040911 +0200

## STANDARDS

This parser was written to handle date formats specified in RFC 822 (including the update in RFC 1123) using time zone name or time zone delta and RFC 850 (obsoleted by RFC 1036) and ANSI C's `asctime()` format. These formats are the only ones RFC2616 says HTTP applications may use.

## RETURN VALUE

This function returns -1 when it fails to parse the date string. Otherwise it returns the number of seconds as described.

If the year is larger than 2037 on systems with 32 bit `time_t`, this function will return 0x7fffffff (since that is the largest possible signed 32 bit number).

Having a 64 bit `time_t` is not a guarantee that dates beyond 03:14:07 UTC, January 19, 2038 will work fine. On systems with a 64 bit `time_t` but with a crippled `mktime()`, *curl\_getdate* will return -1 in this case.

## REWRITE

The former version of this function was built with yacc and was not only very large, it was also never quite understood and it wasn't possible to build with non-GNU tools since only GNU Bison could make it thread-safe!

The rewrite was done for 7.12.2. The new one is much smaller and uses simpler code.