

Ruby master - Feature #9794

DateTime.strptime() doesn't work correctly for '%s %z'

05/02/2014 10:21 AM - felipec (Felipe Contreras)

Status:	Closed
Priority:	Normal
Assignee:	tadf (tadayoshi funaba)
Target version:	
Description	
Time.strptime() works correctly:	
<pre>Time.strptime('0 +0100', '%s %z').strftime('%s %z') => "0 +0100"</pre>	
But DateTime.strptime() doesn't:	
<pre>DateTime.strptime('0 +0100', '%s %z').strftime('%s %z') => "0 +0000"</pre>	
In Rubinius it does work correctly:	
<pre>DateTime.strptime('0 +0100', '%s %z').strftime('%s %z') => "0 +0100"</pre>	
This make the RubySL date space fail:	
<pre>DateTime#strptime parses seconds and timezone correctly FAILED Expected "1970-01-01T00:00:00+00:00" to equal "1970-01-01T01:00:00+01:00"</pre>	
In addition, both C and perl preserve the offset correctly when doing '%s %z'.	
So it's very clear DateTime.strptime() has to be fixed.	
Patch attached.	
Related issues:	
Related to Ruby master - Bug #7445: strftime('%s %z') doesn't work	Rejected 11/27/2012

History

#1 - 05/02/2014 10:53 AM - tadf (tadayoshi funaba)

- Category changed from core to ext
- Status changed from Open to Assigned
- Assignee set to tadf (tadayoshi funaba)
- Priority changed from Normal to 3

#2 - 05/02/2014 10:57 AM - tadf (tadayoshi funaba)

- Related to Bug #7445: strftime('%s %z') doesn't work added

#3 - 05/02/2014 10:59 AM - tadf (tadayoshi funaba)

- Status changed from Assigned to Rejected

identical to 7445.

#4 - 05/02/2014 11:14 AM - felipec (Felipe Contreras)

Tadayoshi you are so fucking ridiculous it's not even funny.

You reject a perfectly sensible patch that **EVERYBODY** agrees with for NO REASON AT ALL WHATSOEVER? At the very least give a reason.

#10 - 05/03/2014 06:45 AM - tadf (tadayoshi funaba)

Felipe Contreras

strcut tm %s %z
C
strptime
mktime (gmtime)
%z %s
https://bugs.ruby-lang.org/issues/7445#note-12

%s (DateTime)
ruby Time DateTime

DateTime
(DateTime)
DateTime

strptime
strptime
_strptime lib/time.rb
strptime _strptime

'%s %z'

#11 - 05/03/2014 06:45 AM - tadf (tadayoshi funaba)

- Status changed from Feedback to Rejected

#12 - 05/03/2014 08:37 AM - akr (Akira Tanaka)

tadayoshi funaba wrote:

Felipe Contreras

"%s %z"

strcut tm %s %z
C
strptime
mktime (gmtime)
%z %s
https://bugs.ruby-lang.org/issues/7445#note-12

Ruby strptime struct tm DateTime Time
DateTime Time
"%s %z"

%s %z s z
Time.at(s).getlocal(z)

%s (DateTime)
ruby Time DateTime

%s
Ruby C strptime() strftime()
ext/date

strptime() の実装

Thu Aug 21 00:20:05 2008 Shugo Maeda <shugo@ruby-lang.org>

- * strftime.c: new file.
- * common.mk (COMMONOBS): added strftime.\$(OBJEXT).
- * time.c (time_strftime): do not use strftime(3). supported %L(millisecond) and %N(nanosecond).
- * test/ruby/test_time.rb: added tests for %L and %N.

struct tm のフォーマット %L %N の実装

```

strptime の実装
strptime の実装
strptime の実装
strptime の実装
strptime の実装
strptime の実装
strptime の実装
strptime の実装
strptime の実装
strptime の実装

```

```

lib/time.rb の strptime の実装
lib/time.rb の strptime の実装
lib/time.rb の strptime の実装
lib/time.rb の strptime の実装

```

Fri Mar 4 08:09:12 2005 Yukihiro Matsumoto <matz@ruby-lang.org>

- * lib/time.rb (Time::strptime): add new function. inspired by [ruby-talk: 132815].
- * lib/parsedate.rb (ParseDate::strptime): ditto.

strptime の実装

#13 - 05/03/2014 09:06 AM - tadf (tadayoshi funaba)

Akira Tanaka wrote:

tadayoshi funaba wrote:

Felipe Contreras のコメント

"%s %z" の実装

strptime の実装

```

Ruby の strptime の実装
DateTime の Time の実装
"%s %z" の実装

```

ruby の実装

```

%s %z の実装
Time.at(s).getlocal(z) の実装

```

```

"%s %z" の実装
"%s %z" の実装
"%s %z" の実装

```

```

"%s %z" の実装
"%s %z" の実装
"%s %z" の実装

```

```

%s の実装
Ruby の C の strptime() の実装

```

ext/date
lib/time.rb

%s ruby
'%s %z'

lib/time.rb
strptime
lib/time.rb
strptime

lib/time.rb
strptime

Time.strptime

#14 - 05/03/2014 09:11 AM - felipec (Felipe Contreras)

At some point it would be nice to have something in English so that the international community can comment on that.

#15 - 05/03/2014 09:58 AM - akr (Akira Tanaka)

tadayoshi funaba wrote:

"%s %z"
%s
%z UTC offset

Time
DateTime

%s %z s z
Time.at(s).getlocal(z)

"%s %z"

"%s %z"

%s %z

- %s
- %z

%s %z

Time
Time.at
Time.at

```
Time.strptime("0 -0200", '%s %z')
```

```
git Time.strptime("20010203 -0200", '%Y%m%d %z')
```

```
Time.strptime("0 -0200", '%s %z')
```

```
Time.strptime("20010203 -0200", '%Y%m%d %z')
```

#16 - 05/03/2014 10:29 AM - tadf (tadayoshi funaba)

Akira Tanaka wrote:

tadayoshi funaba wrote:

```
Time.strptime("0 -0200", '%s %z')
```

```
Time.strptime("20010203 -0200", '%Y%m%d %z')
```

```
Time.strptime("0 -0200", '%s %z')
```

```
Time.strptime("0 -0200", '%s %z')
```

```
Time.strptime("20010203 -0200", '%Y%m%d %z')
```

```
Time.strptime("0 -0200", '%s %z')
```

```
Time.strptime("20010203 -0200", '%Y%m%d %z')
```

- %s 1969-12-31 22:00:00 -0200
- %z 1969-12-31 22:00:00 -0200

```
Time.strptime("20010203 -0200", '%Y%m%d %z')
```

```
Time.strptime("0 -0200", '%s %z')
```

```
git Time.strptime("20010203 -0200", '%Y%m%d %z')
```

```
git Time.strptime("20010203 -0200", '%Y%m%d %z')
```

```
Time.strptime("20010203 -0200", '%Y%m%d %z')
```

```
Time.strptime("0 -0200", '%s %z')
```

```
Time.strptime("0 -0200", '%s %z')
```

```
Time.strptime("20010203 -0200", '%Y%m%d %z')
```

#17 - 05/03/2014 11:34 AM - akr (Akira Tanaka)

Time.strptime('20010203 -0200', '%Y%m%d %z')

#18 - 05/03/2014 12:04 PM - tadf (tadayoshi funaba)

Akira Tanaka wrote:

tadayoshi funaba wrote:

Date.today.ctime #=> "Sat May 3 00:00:00 2014"

Sat Fri

php 2014-05-02 2014-05-09

strtotime parse

%s %s

Time.strptime('20010203 -0200', '%Y%m%d %z')

#19 - 05/03/2014 01:00 PM - akr (Akira Tanaka)

tadayoshi funaba wrote:

Date.today.ctime #=> "Sat May 3 00:00:00 2014"

Sat Fri

"Fri May 3 00:00:00 2014"

php 2014-05-02 2014-05-09

%s %z

Time.at(s).getlocal(z) to_i s
Time.at(s).getlocal(z).utc_offset z
Time s z

Time.at(s).getlocal(z) to_i s
Time.at(s).getlocal(z).utc_offset z
Time s z

%s (1970-01-01T00:00:00Z) %z (UTC) %s
Time.strptime parse
Time.strptime

Time.strptime parse
Time.strptime

Time.strptime parse
Time.strptime

Time.strptime parse
Time.strptime

Time.strptime parse
Time.strptime
Time DateTime

Time DateTime
Time DateTime

Time DateTime

Time DateTime
Time DateTime
Time DateTime

Time DateTime
Time DateTime

Time DateTime
Time DateTime

#20 - 05/03/2014 09:18 PM - tadf (tadayoshi funaba)

Akira Tanaka wrote:

tadayoshi funaba wrote:

Time.strptime parse
Time.strptime

Time.strptime parse
Time.strptime
Time.strptime

Time.strptime parse
Time.strptime
Time.strptime

2001-02-03T04:05:06 UTC (+0900)

DateTime.parse('2001-02-03T04:05:06 UTC').new_offset('+0900')

Time.strptime parse
Time.strptime

Time.strptime parse
Time.strptime

Time.strptime parse
Time.strptime

%s

%s

Unix Epoch (1970-01-01T00:00:00Z)

4713

=

(JST)

Time Time#+

%s

%s

#23 - 05/04/2014 02:54 AM - tadf (tadayoshi funaba)

Akira Tanaka wrote:

tadayoshi funaba wrote:

Unix Epoch

Time DateTime UTC

%s %z x %z

#24 - 05/04/2014 03:00 AM - tadf (tadayoshi funaba)

git-1.9.2 strttime time_t

git-1.9.2/date.c /* Gr. strttime is crap for this; it doesn't have a way to require RFC2822 (i.e. English) day/month names, and it doesn't work correctly with %z. */

%z

#25 - 05/04/2014 03:25 AM - felipec (Felipe Contreras)

tadayoshi funaba wrote:

/* Gr. strttime is crap for this; it doesn't have a way to require RFC2822 (i.e. English) day/month names, and it doesn't work correctly with %z. */

This has already been agreed: many options in `strftime()` are not portable, but that includes '%s' as well.

#26 - 05/04/2014 06:58 AM - akr (Akira Tanaka)

tadayoshi funaba wrote:

Unix Epoch

Time DateTime UTC

Time DateTime hour

%s %z %x %z

DateTime.strptime (strftime)

(strftime "%s %z" %z)

#27 - 05/04/2014 08:06 AM - nobu (Nobuyoshi Nakada)

It doesn't seem there is absolute reason that you have to use `Time.strptime`. Particular methods feel more suitable, like `rfc2822`, `httpdate`, and `xml`.

```
class Time
  def self.git(s)
    /\A(\d+)\s+([+-]\d\d)(\d\d)\z/ =~ s or
    raise ArgumentError, "invalid git timestamp: #{s}"
    at($1.to_i).getlocal("#2:#3")
  end
  def git
    strftime("%s %z")
  end
end
```

#28 - 05/04/2014 08:50 AM - tadf (tadayoshi funaba)

Akira Tanaka wrote:

tadayoshi funaba wrote:

DateTime.strptime (strftime)

```
s = 'Sunday 4 May <unknown garbage> 2014; blob'
h = Date.strptime(s, '%a %d %b')
s2 = h[:leftover].gsub(/<.*>*/, "")
h2 = Date.strptime(s2, '%Y')

h.merge(h2) #=> {:yday=>0, :mday=>4, :mon=>5, :leftover=>"; blob", :year=>2014}
```

strftime

#29 - 05/04/2014 09:03 AM - felipec (Felipe Contreras)

Nobuyoshi Nakada wrote:

It doesn't seem there is absolute reason that you have to use `Time.strptime`.

Why wouldn't I? It does **exactly** what I want:

```
Time.strptime('0 +0100', '%s %z').strftime('%s %z')
=> "0 +0100"
```

See? The problem is not Time, the problem is DateTime.

What "absolute" reason could there be for one doing the right thing, and the other one not?

#30 - 05/04/2014 10:12 AM - akr (Akira Tanaka)

tadayoshi funaba wrote:

Akira Tanaka wrote:

tadayoshi funaba wrote:

```
DateTime.strptime (時刻) (時刻)
DateTime.strptime (時刻) (時刻)
```

時刻 (時刻)

時刻 (時刻)

時刻 "%s %z" (時刻)

```
DateTime.strptime (時刻) (時刻)
DateTime.strptime (時刻) (時刻)
DateTime.strptime "%s %z" (時刻) %z (時刻)
DateTime.strptime (時刻) (時刻)
```

時刻 (時刻)

時刻 (時刻)

#31 - 05/04/2014 10:52 AM - tadf (tadayoshi funaba)

時刻 "%s %z" (時刻)

```
DateTime.strptime (時刻) (時刻)
DateTime.strptime (時刻) (時刻)
DateTime.strptime "%s %z" (時刻) %z (時刻)
DateTime.strptime (時刻) (時刻)
```

時刻 (時刻)

時刻 (時刻)

Date.strptime('Sun May 4 00:00:00 2014', '%a %b %d %T %Y')

時刻 Sun (時刻)

DateTime.strptime('2001-02-03/2014-05-04', '%F/%F')

時刻 (時刻)

#32 - 05/04/2014 12:00 PM - akr (Akira Tanaka)

tadayoshi funaba wrote:

```
時刻 (時刻)
時刻 (時刻)
```

時刻 (時刻)

時刻 "%s %z" (時刻)

Time.parse
Time.parse

Time.parse

Matz.

#39 - 05/04/2014 08:01 PM - tadf (tadayoshi funaba)

Time.parse
Time.parse

DateTime

Time.strptime(" ", " ")
r8068 Time.parse
Time.strptime
Time.strptime

'%z'

Time to_time
Time to_time

#40 - 05/04/2014 08:34 PM - tadf (tadayoshi funaba)

Time

git
git

Time

(Time)

#41 - 05/04/2014 09:10 PM - tadf (tadayoshi funaba)

Time

Time date
Time date

Time date

Time
Time

#42 - 05/04/2014 10:16 PM - felipec (Felipe Contreras)

Well, I still don't understand what was discussed here, but it seems we have a fix (r45822).

Thanks for doing the sensible thing :)

#43 - 05/04/2014 11:54 PM - matz (Yukihiro Matsumoto)

tadayoshi funaba wrote:

Time

Time

Time date
Time date

Time date

00000000000000000000000000000000

000000000000000000000000
00000000000000000000000000000000

0000000000000000

#44 - 05/05/2014 03:02 AM - akr (Akira Tanaka)

tadayoshi funaba wrote:

000000'%z' 0000000000000000

000000

Time.strptime("+09:00", "%z") 00

000000Time 000000000000 to_time 000000000000
00000000000000000000000000000000

00

#45 - 05/05/2014 04:45 AM - tadf (tadayoshi funaba)

00

000000000000000000000000

00000000000000000000000000000000000000

#46 - 05/05/2014 04:45 AM - tadf (tadayoshi funaba)

- Status changed from Open to Closed

#47 - 09/16/2014 11:42 AM - sawa (Tsuyoshi Sawada)

Eric Hodel wrote:

Felipe, your extreme rudeness has no place here.

The rejection reason is described in [#7445](#) as linked.

Not every committer is proficient in English so Japanese is just fine.

I don't suspect you'll get a reason.

Eric, your speculation that Tadayoshi Funaba's comment was written in Japanese (only) because he may not be proficient in English is not correct. In the first comment written in Japanese in [#7445](#), he wrote:

00000000000000000000000000000000

which translates to "My English doesn't seem to be understood by you, so I will write it in Japanese for you," which does not make sense at all if interpreted literally under the given situation. I interpret this as a very rude irony. It is Tadayoshi Funaba, who started all the rudeness. Felipe Contreras only responded rudely to a rude comment. I don't think there is anything wrong, generally, if a comment is written in any language. However, in this particular case, it was written in Japanese intentionally to give a certain (negative) effect.

Files

0001-datetime-fix-strptime-s-z.patch	1.94 KB	05/02/2014	felipec (Felipe Contreras)
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