Ruby master - Bug #14241

Time.strptime() doesn't support the directive "%W".

12/26/2017 10:10 AM - stsuboi (Sougo TSUBOI)

Status:	Assigned			
Priority:	Normal			
Assignee:	akr (Akira Tanaka)			
Target version:				
ruby -v:	ruby 2.3.3p222 (2016-11-21 revision 56859) [x64-mingw32]		**Backport:**	2.3: UNKNOWN, 2.4: UNKNOWN, 2.5: UNKNOWN

Description

According to reference manual, Time.strptime() accepts the directive "%W" in a format string, but it seems not to be worked.
On the other hand, Date.strptime() accepts "%W" correctly.

```
C:>ruby -v
ruby 2.3.3p222 (2016-11-21 revision 56859) [x64-mingw32]

C:>irb
irb(main):001:0> require "time"
=> true
irb(main):003:0> Time.strptime("2017 1", "%Y %W").strftime("%F")
=> "2017-01-01"
irb(main):004:0> Date.strptime("2017 1", "%Y %W").strftime("%F")
=> "2017-01-02"
```

Related issues:

Related to Ruby master - Bug #9836: Bad Implementation of Time.strptime	**Feedback**

History

#1 - 12/26/2017 10:13 AM - stsuboi (Sougo TSUBOI)

- Description updated

#2 - 12/26/2017 10:14 AM - stsuboi (Sougo TSUBOI)

- Description updated

#3 - 12/26/2017 10:16 AM - stsuboi (Sougo TSUBOI)

- Description updated

#4 - 12/26/2017 10:17 AM - stsuboi (Sougo TSUBOI)

- Subject changed from Time.strptime() doesn't support the directive "%W" in . to Time.strptime() doesn't support the directive "%W".

#5 - 12/26/2017 07:37 PM - Anonymous

To add to the report, the Time.strptime doesn't support any of the following directives

```
%w %W %j %u
```

basically, it doesn't support anything outputted from the Date._strptim that is not in the following hash keys (https://github.com/ruby/ruby/blob/ruby_2_5/lib/time.rb#L448)

```
:year , :mon, :mday, :hour, :min, :sec, :sec_fraction, :zone
```

and the previous format directives produce various different keys like

```
:wnum1, :cwday, :wday, :yday
```

examples:

```
Date.strptime("2017 1 3", "%Y %W %u").strftime("%F")
=> "2017-01-04"
Time.strptime("2017 1 3", "%Y %W %u").strftime("%F")
=> "2017-01-01"
```

```
Date.strptime("2017 20", "%Y %j").strftime("%F")
=> "2017-01-20"
Time.strptime("2017 20", "%Y %j").strftime("%F")
=> "2017-01-01"
```

#6 - 06/21/2019 05:48 PM - jeremyevans0 (Jeremy Evans)

- Assignee set to akr (Akira Tanaka)

- Status changed from Open to Assigned

- File time-strptime-wnum.patch added

I agree this is a bug that should be fixed. Attached is a patch that implements support for %U/%W/%u/%w in Time#strptime.

#7 - 08/11/2019 07:32 PM - jeremyevans0 (Jeremy Evans)

- Related to Bug #9836: Bad Implementation of Time.strptime added

#8 - 08/11/2019 07:32 PM - jeremyevans0 (Jeremy Evans)

- File time-strptime-wnum-cw-14241.patch added

Here's an updated patch that handles %V, %g, and %G as well.

Files

time-strptime-wnum.patch	1.89 KB	06/21/2019	jeremyevans0 (Jeremy Evans)
time-strptime-wnum-cw-14241.patch	3.2 KB	08/11/2019	jeremyevans0 (Jeremy Evans)