Ruby master - Bug #10698

Time#local behaves differently during clock change

01/05/2015 08:53 PM - boris (Boris Ruf)

<table>
<thead>
<tr>
<th>Status</th>
<th>Closed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority</td>
<td>Normal</td>
</tr>
<tr>
<td>Assignee</td>
<td>nobu (Nobuyoshi Nakada)</td>
</tr>
<tr>
<td>Target version</td>
<td>2.2.0</td>
</tr>
<tr>
<td>Backport</td>
<td>2.0.0: DONTNEED, 2.1: DONTNEED, 2.2: DONE</td>
</tr>
</tbody>
</table>

Description

This is probably not a bug but since it changes previous behavior it should be noted somewhere.

Ruby 2.1.5:

```ruby
>> ENV['TZ'] = 'Europe/Berlin'
=> "Europe/Berlin"
>> Time.local(2011,10,30,2,0,0).zone
=> "CET"
```

Ruby 2.2.0:

```ruby
>> ENV['TZ'] = 'Europe/Berlin'
=> "Europe/Berlin"
>> Time.local(2011,10,30,2,0,0).zone
=> "CEST"
```

So in older Ruby versions the object represents the time after the clock change (within the extra hour), while in Ruby 2.2.0 it represents the time before time is set back.

Associated revisions

Revision 9bbe6b9d - 01/06/2015 12:41 PM - akr (Akira Tanaka)

- time.c (timelocalw): Set tm_isdst field -1 if vtm->isdst is VTM_ISDST_INITVAL. This bug is introduced at packing struct vtm (r45155).
  [ruby-core:67345] [Bug #10698] Reported by Boris Ruf.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@49162 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 49162 - 01/06/2015 12:41 PM - akr (Akira Tanaka)

- time.c (timelocalw): Set tm_isdst field -1 if vtm->isdst is VTM_ISDST_INITVAL. This bug is introduced at packing struct vtm (r45155).
  [ruby-core:67345] [Bug #10698] Reported by Boris Ruf.

Revision 49162 - 01/06/2015 12:41 PM - akr (Akira Tanaka)

- time.c (timelocalw): Set tm_isdst field -1 if vtm->isdst is VTM_ISDST_INITVAL. This bug is introduced at packing struct vtm (r45155).
  [ruby-core:67345] [Bug #10698] Reported by Boris Ruf.

Revision 49162 - 01/06/2015 12:41 PM - akr (Akira Tanaka)

- time.c (timelocalw): Set tm_isdst field -1 if vtm->isdst is VTM_ISDST_INITVAL. This bug is introduced at packing struct vtm (r45155).
  [ruby-core:67345] [Bug #10698] Reported by Boris Ruf.

Revision 49162 - 01/06/2015 12:41 PM - akr (Akira Tanaka)

- time.c (timelocalw): Set tm_isdst field -1 if vtm->isdst is VTM_ISDST_INITVAL. This bug is introduced at packing struct vtm (r45155).
  [ruby-core:67345] [Bug #10698] Reported by Boris Ruf.
time.c (timelocalw): Set tm_isdst field -1 if vtm->isdst is VTM_ISDST_INTERNAL. This bug is introduced at packing struct vtm (r45155).
[ruby-core:67345] [Bug #10698] Reported by Boris Ruf.

Revision d022e13f - 01/16/2015 04:53 PM - naruse (Yui NARUSE)
merge revision(s) 49162: [Backport #10698]

* time.c (timelocalw): Set tm_isdst field -1 if vtm->isdst is VTM_ISDST_INTERNAL. This bug is introduced at packing struct vtm (r45155).
[ruby-core:67345] [Bug #10698] Reported by Boris Ruf.

Revision 49284 - 01/16/2015 04:53 PM - naruse (Yui NARUSE)
merge revision(s) 49162: [Backport #10698]

* time.c (timelocalw): Set tm_isdst field -1 if vtm->isdst is VTM_ISDST_INTERNAL. This bug is introduced at packing struct vtm (r45155).
[ruby-core:67345] [Bug #10698] Reported by Boris Ruf.

History

#1 - 01/06/2015 12:41 PM - akr (Akira Tanaka)
- Status changed from Open to Closed
- % Done changed from 0 to 100

Applied in changeset r49162.

#2 - 01/06/2015 04:09 PM - nagachika (Tomoyuki Chikanaga)
- Backport changed from 2.0.0: UNKNOWN, 2.1: UNKNOWN, 2.2: UNKNOWN to 2.0.0: DONTNEED, 2.1: DONTNEED, 2.2: REQUIRED

#3 - 01/16/2015 04:53 PM - naruse (Yui NARUSE)
- Backport changed from 2.0.0: DONTNEED, 2.1: DONTNEED, 2.2: REQUIRED to 2.0.0: DONTNEED, 2.1: DONTNEED, 2.2: DONE

ruby_2_2 r49284 merged revision(s) 49162.