Ruby master - Bug #3931

Timezone offset changing during addition

10/12/2010 02:04 PM - ebryn (Erik Bryn)

<table>
<thead>
<tr>
<th>Status</th>
<th>Rejected</th>
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</thead>
<tbody>
<tr>
<td>Priority</td>
<td>Normal</td>
</tr>
<tr>
<td>Assignee</td>
<td></td>
</tr>
<tr>
<td>Target version</td>
<td>2.0.0</td>
</tr>
<tr>
<td>ruby -v</td>
<td>1.9.2-p0</td>
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</tbody>
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**Description**

=begin
Here's the original code that I found this bug with:
ruby-1.9.2-p0 > t = Time.local(1900, nil, nil, nil, nil, nil)
=> 1900-01-01 00:00:00 -0800
ruby-1.9.2-p0 > t + 5_630_617_200
=> 2078-06-05 05:20:00 -0700

After looking into it further, it seems if I add >2816474399 to t, the timezone offset will change:
ruby-1.9.2-p0 > t + 2816474399
=> 1989-04-02 01:59:59 -0800
ruby-1.9.2-p0 > t + 2816474400
=> 1989-04-02 03:00:00 -0700
=end

**History**

#1 - 10/12/2010 07:05 PM - nobu (Nobuyoshi Nakada)
- Status changed from Open to Rejected

=begin
It's Daylight Saving Time.
=end

#2 - 10/12/2010 07:56 PM - ebryn (Erik Bryn)

=begin
Are you sure? This is new behavior in 1.9.2. I've tested with 1.8.7 & 1.9.1 and this doesn't occur.
=end

#3 - 10/13/2010 09:00 PM - dkelley (Daniel Kelley)

=begin
1989-04-02 is the first Sunday in April, which is the transition to daylight savings time in the US in that year.
I see your 1.9.2 behavior in my 1.8.7p72 and 1.9.1p243, so it doesn't look like a change in behavior to me.
=end