

Ruby master - Bug #15160

ArgumentError: year too big to marshal

09/25/2018 03:50 PM - Dirk (Dirk Meier-Eickhoff)

Status: Closed	
Priority: Normal	
Assignee:	
Target version:	
ruby -v:	Backport: 2.3: UNKNOWN, 2.4: UNKNOWN, 2.5: UNKNOWN

Description

I encountered the problem, that marshaling a Time object does not always work.

Try run following commands in irb that will raise an error:

```
Marshal.dump(Time.new(1900))
#Traceback (most recent call last):
# 3: from (irb):35
# 2: from (irb):35:in `dump'
# 1: from (irb):35:in `_dump'
#ArgumentError (year too big to marshal: 1899 UTC)
```

```
Marshal.dump(Time.new(1899))
#Traceback (most recent call last):
# 3: from (irb):37
# 2: from (irb):37:in `dump'
# 1: from (irb):37:in `_dump'
#ArgumentError (year too big to marshal: 1898 UTC)
```

Following commands will work fine:

```
Marshal.dump(Time.new(1901))
# => "\x04\bIu:\tTime\r\xF7/\x00\x80\x00\x00\x00\x00\xa:\voffseti\x02\x10\x0E:\tzoneI\"bCET\x06:\x06EF"
```

```
Marshal.dump(Date.new(1899))
# => "\x04\bU:\tDate[\vi\x00i\x03@\xD8$i\x00i\x00i\x00f\f2299161"
```

I'm in timezone CEST (UTC+2).

I tested it at MacOS High Sierra (10.13.6 (17G65)) and Ubuntu 16.04.5 LTS (GNU/Linux 4.4.0-135-generic x86_64) with two Ruby versions:

- ruby 2.5.1p57 (2018-03-29 revision 63029) [x86_64-darwin17]
- ruby 2.6.0preview2 (2018-05-31 trunk 63539) [x86_64-darwin17]

I expect that all Time objects can be marshaled, even if they are prior 1900.

Associated revisions

Revision e690df1f - 06/19/2019 06:26 AM - nobu (Nobuyoshi Nakada)

Marshal distant past/future

[Feature #15160]

History

#1 - 09/27/2018 09:25 AM - nobu (Nobuyoshi Nakada)

- Backport deleted (2.3: UNKNOWN, 2.4: UNKNOWN, 2.5: UNKNOWN)
- ruby -v deleted (ruby 2.6.0preview2 (2018-05-31 trunk 63539) [x86_64-darwin17])
- Tracker changed from Bug to Feature

This is a limit of current marshal format of Time, not a bug.

This is a [patch](#) to extend the limit, but it has a little problem on marshal data compatibility.

```
$ ./ruby -e 'Marshal.dump(Time.new(1900), STDOUT)' | ruby -e 'p Marshal.load(STDIN)'  
67436-01-01 00:00:00 +0900
```

Dumped out-of-range Time with this patch will be loaded as the distant future, when loaded in old ruby.

#2 - 09/27/2018 12:50 PM - Dirk (Dirk Meier-Eickhoff)

- Backport set to 2.3: UNKNOWN, 2.4: UNKNOWN, 2.5: UNKNOWN
- Tracker changed from Feature to Bug

#3 - 06/19/2019 07:04 AM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Closed

Applied in changeset [gitle690df1f1ef4f791295448f9192d6e027400ee72](https://github.com/ruby/ruby/commit/e690df1f1ef4f791295448f9192d6e027400ee72).

Marshal distant past/future

[Feature [#15160](#)]