Ruby - Feature #4257

switch_hitter - an acceleration of date library

01/10/2011 09:52 PM - tadf (tadayoshi funaba)

Status: Closed

Priority: Normal

Assignee: tadf (tadayoshi funaba)

Target version:

Description

=begin

switch_hitter'ed already passed nearly all of tests (except some tests of class name and some confirmations of format of inspect).

- The constructors may return Date::Light instead of Date.
- as fast as home_run when it represents simple date of proleptic gregorian of the age of the human race.
- · keeps compatibility.
 - o can load ruby 1.9.2 dumped marshal.
- accepts flonum explicitly with limitations.
 - If the given offset is flonum, DateTime assumes its precision is at most second.
 - If the given +/- argument is flonum, DateTime assumes its precision is at most nanosecond.

I'd like to apply this to trunk in the near future.

I also have a plan of improvement about some format methods.

see also http://redmine.ruby-lang.org/issues/show/4068

=end

Related issues:

Related to Ruby - Feature #4068: Replace current standard Date/DateTime libra... Rejected 11/18/2010

Associated revisions

Revision fdf36118 - 02/26/2011 08:10 AM - Tadayoshi Funaba

- lib/date.rb: [Feature #4257]
 - * ext/date/extconf.rb: new
 - * ext/date/date_core.c: new

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@30961 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

History

#1 - 01/12/2011 06:20 AM - jeremyevans0 (Jeremy Evans)

=begin

I ran switch_hitter against home_run's test suites. Most of the failures are due to differences between home_run and the standard library. There are a few failures that I think should be addressed in switch_hitter:

- 1. Operator methods such as >>, <<, +, and and methods such as next_day and prev_day should return instances that are the same class of the receiver. This could be complicated as subclasses are generally going to subclass Date and DateTime instead of Date::Light and DateTime::Light. I think it's fair to return a Date::Light for a Date or DateTime::Light for a DateTime, but if the receiver is an instance of a subclass of Date or DateTime, the operator method should return an instance the same subclass.
- 2. Class methods such as civil, new, commercial, ordinal, and jd should return instances of the class. Similar to 1), Date.new can return Date or Date::Light, but a subclass of Date should return an instance of that subclass.
- 3. Strings returned by Date or DateTime methods should use US-ASCII encoding by default, or the default internal encoding if set.
- 4. Date parsing methods such as parse, strptime, httpdate, iso8601, etc. are broken (but the DateTime versions are not).

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ruby-head :001 > Date.parse '1/1/2011'

ArgumentError: cannot create

 $from /home/jeremy/.rvm/rubies/ruby-head/lib/ruby/1.9.1/date.rb:803:in new_!!' from /home/jeremy/.rvm/rubies/ruby-head/lib/ruby-h$

new!

from /home/jeremy/.rvm/rubies/ruby-head/lib/ruby/1.9.1/date.rb:1081:in new_by_frags' from

/home/jeremy/.rvm/rubies/ruby-head/lib/ruby/1.9.1/date.rb:1123:in parse'

from (irb):1

from /home/jeremy/.rvm/rubies/ruby-head/bin/irb:16:in `'

Related to 1) is that with switch_hitter's design, subclasses of Date and DateTime are not going to have optimized performance. A user would have to subclass Date::Light or DateTime::Light if they wanted their subclass to have optimized performance. I don't really see a way around this without having some Date objects use internal type T_DATA and other Date objects use internal type T_OBJECT, and having a ruby class whose objects can differ in internal type is probably not a good idea.

#2 - 01/16/2011 09:25 PM - tadf (tadayoshi funaba)

- File switch_hitter.patch3 added

=begin

i've integrated both.

=end

#3 - 01/21/2011 11:41 AM - jeremyevans0 (Jeremy Evans)

=begin

Looks good. The only thing I noticed is that DateTime#amjd is broken:

\$ ruby -v -r date -e 'DateTime.new.amjd'

ruby 1.9.3dev (2011-01-21 trunk 30620) [x86_64-openbsd4.8]

-e:1:in amjd': undefined method amjd_r' for #<DateTime[R]: -4712-01-01T00:00:00+00:00 (-1/2,0,2299161)> (NoMethodError)

from -e:1:in "

=end

#4 - 02/13/2011 01:22 AM - tadf (tadayoshi funaba)

- File switch hitter.patch4 added

=begin

i'm planning to apply this change within a couple of weeks.

=end

#5 - 02/17/2011 06:43 AM - headius (Charles Nutter)

=begin

Added http://jira.codehaus.org/browse/JRUBY-5518 to track this. We'll want to implement a Java version of switch_hitter, most likely. =end

#6 - 02/17/2011 12:44 PM - jeremyevans0 (Jeremy Evans)

=beain

Looks good, no unexpected failures in home_run's test suite.

=end

#7 - 03/02/2011 09:01 PM - tadf (tadayoshi funaba)

- Status changed from Open to Closed

=begin

=end

Files

switch_hitter.patch2	83.8 KB	01/10/2011	tadf (tadayoshi funaba)
switch_hitter.patch3	97.4 KB	01/16/2011	tadf (tadayoshi funaba)
switch_hitter.patch4	97.4 KB	02/13/2011	tadf (tadayoshi funaba)

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