Initialization-error of sortedset

When we use multithreading environment, sortedset-initialization always fails.

Reproducible programs and the logs are below.

```ruby
$ cat sortedset-test.rb
require "set"

def func1
  set = SortedSet.new([2, 1, 5, 6, 4, 5, 3, 3])
  ary = []
  set.each do |obj|
    ary << obj
    p ary
  end
end

def func2
  set = SortedSet.new([2, 1, 5, 6, 4, 5, 3, 3])
  ary = []
  set.each do |obj|
    ary << obj
    p ary
  end
end

puts "Started At #{Time.now}"
t1 = Thread.new{func1()}
t2 = Thread.new{func2()}
t1.join
t2.join
puts "End at #{Time.now}"

$ ruby sortedset-test.rb
Started At 2017-07-10 10:08:14 +0900
[1]
[1, 2]
[1, 2, 3]
[1, 2, 3, 4]
[1, 2, 3, 4, 5]
[1, 2, 3, 4, 5, 6]
/home/hogeuser/.rbenv/versions/2.4.1/lib/ruby/2.4.0/set.rb:711:in `remove_method': method `old_init' not defined in SortedSet (NameError)
  from /home/hogeuser/.rbenv/versions/2.4.1/lib/ruby/2.4.0/set.rb:711:in `block in setup'
  from /home/hogeuser/.rbenv/versions/2.4.1/lib/ruby/2.4.0/set.rb:709:in `module_eval'
  from /home/hogeuser/.rbenv/versions/2.4.1/lib/ruby/2.4.0/set.rb:709:in `setup'
  from /home/hogeuser/.rbenv/versions/2.4.1/lib/ruby/2.4.0/set.rb:719:in `initialize'
  from sortedset-test.rb:15:in `new'
  from sortedset-test.rb:15:in `func2'
  from sortedset-test.rb:26:in `block in <main>'
```
Following tickets may have a same problem.

https://github.com/jubos/fake-s3/pull/55

https://github.com/synthetichealth/synthea/issues/156

Following link has initialization error of sortedset, too.
But it does not use multithreading.


Associated revisions

Revision 8daa6985 - 10/21/2017 03:57 PM - knu (Akinori MUSHA)
Use a mutex to make SortedSet.setup thread-safe

This should fix [Bug #13735].

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@60304 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 60304 - 10/21/2017 03:57 PM - knu (Akinori MUSHA)
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History

#1 - 07/10/2017 01:23 AM - junjihashimoto (Junji Hashimoto)
- Description updated

#2 - 07/10/2017 01:25 AM - junjihashimoto (Junji Hashimoto)
- Subject changed from Initializing error of sortedset to Initialization-error of sortedset

#3 - 07/14/2017 08:21 AM - knu (Akinori MUSHA)
- Assignee set to knu (Akinori MUSHA)
- Status changed from Open to Assigned

#4 - 10/21/2017 03:57 PM - knu (Akinori MUSHA)
- Status changed from Assigned to Closed

Applied in changeset trunk|r60304.

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This should fix [Bug #13735].