

## Ruby trunk - Bug #9187

### st\_table leaks when exception is raised in Hash#rehash

12/01/2013 02:15 PM - Glass\_saga (Masaki Matsushita)

<b>Status:</b>	Closed	
<b>Priority:</b>	Normal	
<b>Assignee:</b>	Glass_saga (Masaki Matsushita)	
<b>Target version:</b>	2.1.0	
<b>ruby -v:</b>	ruby 2.1.0dev (2013-12-01 trunk 43941) [x86_64-linux]	<b>Backport:</b> 1.9.3: DONE, 2.0.0: DONE

#### Description

Following code causes leakage of st\_table:

```
class Foo
  def initialize
    @raise = false
  end

  def hash
    raise if @raise
    @raise = true
    return 0
  end
end

h = {Foo.new => true}
10_0000.times do
  h.rehash rescue nil
end
```

#### Associated revisions

##### Revision bfbe1b9b - 12/01/2013 05:28 AM - glass

- hash.c (rb\_hash\_rehash): fix to free new st\_table when exception is raised in do\_hash(). [Bug #9187]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@43942 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

##### Revision 43942 - 12/01/2013 05:28 AM - glass

- hash.c (rb\_hash\_rehash): fix to free new st\_table when exception is raised in do\_hash(). [Bug #9187]

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**Revision ead0c5d3 - 12/02/2013 12:59 PM - glass**

- hash.c (rb\_hash\_rehash): make temporary st\_table under the control of GC. [Bug #9187]
- test/ruby/test\_hash.rb: add a test for above.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@43957 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

**Revision 43957 - 12/02/2013 12:59 PM - glass**

- hash.c (rb\_hash\_rehash): make temporary st\_table under the control of GC. [Bug #9187]
- test/ruby/test\_hash.rb: add a test for above.

**Revision 43957 - 12/02/2013 12:59 PM - Glass\_saga (Masaki Matsushita)**

- hash.c (rb\_hash\_rehash): make temporary st\_table under the control of GC. [Bug #9187]
- test/ruby/test\_hash.rb: add a test for above.

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**Revision 437b8bc5 - 12/03/2013 11:19 AM - glass**

- array.c (rb\_hash\_rehash): use hash\_alloc() instead of rb\_hash\_new(). [Bug #9187]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@43975 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

**Revision 43975 - 12/03/2013 11:19 AM - glass**

- array.c (rb\_hash\_rehash): use hash\_alloc() instead of rb\_hash\_new(). [Bug #9187]

**Revision 43975 - 12/03/2013 11:19 AM - Glass\_saga (Masaki Matsushita)**

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- array.c (rb\_hash\_rehash): use hash\_alloc() instead of rb\_hash\_new(). [Bug #9187]

**Revision 90d94de3 - 02/14/2014 05:45 AM - usa (Usaku NAKAMURA)**

merge revision(s) 43942,43957,43975: [Backport #9187]

- \* hash.c (rb\_hash\_rehash): fix to free new st\_table when exception is raised in do\_hash(). [Bug #9187]
- \* hash.c (rb\_hash\_rehash): make temporary st\_table under the control of GC. [Bug #9187]
- \* test/ruby/test\_hash.rb: add a test for above.
- \* array.c (rb\_hash\_rehash): use hash\_alloc() instead of rb\_hash\_new(). [Bug #9187]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby\_1\_9\_3@44938 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

**Revision 886142e8 - 02/16/2014 04:47 PM - nagachika (Tomoyuki Chikanaga)**

merge revision(s) r43942,r43957,r43975: [Backport #9187]

- \* hash.c (rb\_hash\_rehash): fix to free new st\_table when exception is raised in do\_hash(). [Bug #9187]
- \* hash.c (rb\_hash\_rehash): make temporary st\_table under the control of GC. [Bug #9187]

\* test/ruby/test\_hash.rb: add a test for above.

\* array.c (rb\_hash\_rehash): use hash\_alloc() instead of rb\_hash\_new().  
[Bug #9187]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby\_2\_0\_0@45011 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

## History

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### #1 - 12/01/2013 02:28 PM - Anonymous

- Status changed from Assigned to Closed
- % Done changed from 0 to 100

This issue was solved with changeset [r43942](#).  
Masaki, thank you for reporting this issue.  
Your contribution to Ruby is greatly appreciated.  
May Ruby be with you.

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- hash.c (rb\_hash\_rehash): fix to free new st\_table when exception is raised in do\_hash(). [Bug [#9187](#)]

### #2 - 02/14/2014 05:45 AM - usa (Usaku NAKAMURA)

- Backport changed from 1.9.3: REQUIRED, 2.0.0: REQUIRED to 1.9.3: DONE, 2.0.0: REQUIRED

backported into ruby\_1\_9\_3 at r44948.

### #3 - 02/16/2014 04:48 PM - nagachika (Tomoyuki Chikanaga)

- Backport changed from 1.9.3: DONE, 2.0.0: REQUIRED to 1.9.3: DONE, 2.0.0: DONE

[r43942](#), [r43957](#) and [r43975](#) were backported to ruby\_2\_0\_0 at r45011.

### #4 - 03/11/2014 04:05 AM - nobu (Nobuyoshi Nakada)

- Description updated