

Ruby master - Bug #6558

Crash in garbage collection - using caller inside finalizer method

06/08/2012 03:27 AM - wpaulson (Bill Paulson)

Status:	Rejected	Backport:
Priority:	Normal	
Assignee:	authorNari (Narihiro Nakamura)	
Target version:	2.0.0	
ruby -v:	ruby 1.9.2p290 (2011-07-09 revision 32553) [i686-linux]	

Description

While debugging a hangup in a daemon, created the following program that crashes intermittently in 1.9.1 and 1.9.2 (don't have a current 1.9.3), and finishes in 1.8 (ruby 1.8.7 (2012-02-08 patchlevel 358) [i686-linux]):

```
===== infinite.rb
```

```
def foo
  x = "hello world"*100000
  ObjectSpace.define_finalizer(x, lambda { |x| recurse(1000);print "x: "+caller[1]+"\\n"})
  x = nil
end
```

```
def recurse(n)
  y="hello world"*1000
  ObjectSpace.define_finalizer(y, lambda { |x| print "y: "+caller[1]+"\\n" })
  y = nil
  n>0 ? recurse(n-1): nil
end
```

```
500.times do |i|
  foo
end
```

puts "done"

The host machine is running Red Hat Enterprise Linux Server release 5.3 (Tikanga).

The program isn't deterministic - usually it crashes, sometimes not.

In 1.9, even when it finishes it's still got a problem: the number of output messages is less than the number of finalizers that should run. Running it via

```
ruby infinite.rb | sort | uniq -c
gets results like:
```

```
1 done
496 x: infinite.rb:2:in foo'
2 x: infinite.rb:8:inrecurse'
105214 y: infinite.rb:2:in foo'
359123 y: infinite.rb:8:inrecurse'
19099 y: infinite.rb:9:in block in recurse'
999 y: infinite.rb:9:innew'
2004 y: infinite.rb:9:in print'
12013 y: infinite.rb:9:inrecurse'
```

The number of "x: infinite" messages adds to 498 (496+2), rather than the expected 500. The number of "y: infinite" messages adds up to 498452 instead of the expected 500,000.

```
===== Trace from crashing run
```

```
infinite.rb:9: [BUG] rb_gc_mark(): unknown data type 0x0(0xa3a64bc) non object
ruby 1.9.1p429 (2010-07-02 revision 28523) [i686-linux]
```

```
-- control frame -----
```

```
c:0055 p:---- s:0243 b:0243 l:000242 d:000242 CFUNC :caller
```

```
c:0054 p:0012 s:0240 b:0238 l:000e8c d:000237 LAMBDA infinite.rb:9
c:0053 p:---- s:0235 b:0235 l:000234 d:000234 FINISH
c:0052 p:---- s:0233 b:0233 l:000232 d:000232 CFUNC :call
c:0051 p:0009 s:0231 b:0231 l:000230 d:000230 METHOD infinite.rb:8
c:0050 p:0062 s:0226 b:0226 l:00246c d:00246c METHOD infinite.rb:11
c:0049 p:0062 s:0221 b:0221 l:0024dc d:0024dc METHOD infinite.rb:11
c:0048 p:0062 s:0216 b:0216 l:001bf4 d:001bf4 METHOD infinite.rb:11
c:0047 p:0062 s:0211 b:0211 l:001c6c d:001c6c METHOD infinite.rb:11
c:0046 p:0062 s:0206 b:0206 l:001cdc d:001cdc METHOD infinite.rb:11
c:0045 p:0062 s:0201 b:0201 l:001e54 d:001e54 METHOD infinite.rb:11
c:0044 p:0062 s:0196 b:0196 l:0005a4 d:0005a4 METHOD infinite.rb:11
c:0043 p:0062 s:0191 b:0191 l:000ecc d:000ecc METHOD infinite.rb:11
c:0042 p:0062 s:0186 b:0186 l:00007c d:00007c METHOD infinite.rb:11
c:0041 p:0062 s:0181 b:0181 l:0024c4 d:0024c4 METHOD infinite.rb:11
c:0040 p:0062 s:0176 b:0176 l:001654 d:001654 METHOD infinite.rb:11
c:0039 p:0062 s:0171 b:0171 l:001f3c d:001f3c METHOD infinite.rb:11
c:0038 p:0062 s:0166 b:0166 l:002064 d:002064 METHOD infinite.rb:11
c:0037 p:0062 s:0161 b:0161 l:0024c4 d:0024c4 METHOD infinite.rb:11
c:0036 p:0062 s:0156 b:0156 l:001b6c d:001b6c METHOD infinite.rb:11
c:0035 p:0062 s:0151 b:0151 l:00238c d:00238c METHOD infinite.rb:11
c:0034 p:0062 s:0146 b:0146 l:0004bc d:0004bc METHOD infinite.rb:11
c:0033 p:0062 s:0141 b:0141 l:0012d4 d:0012d4 METHOD infinite.rb:11
c:0032 p:0062 s:0136 b:0136 l:0002ac d:0002ac METHOD infinite.rb:11
c:0031 p:0062 s:0131 b:0131 l:001fd4 d:001fd4 METHOD infinite.rb:11
c:0030 p:0062 s:0126 b:0126 l:00131c d:00131c METHOD infinite.rb:11
c:0029 p:0062 s:0121 b:0121 l:00050c d:00050c METHOD infinite.rb:11
c:0028 p:0062 s:0116 b:0116 l:0011c4 d:0011c4 METHOD infinite.rb:11
c:0027 p:0062 s:0111 b:0111 l:0015e4 d:0015e4 METHOD infinite.rb:11
c:0026 p:0062 s:0106 b:0106 l:0013a4 d:0013a4 METHOD infinite.rb:11
c:0025 p:0062 s:0101 b:0101 l:000fe4 d:000fe4 METHOD infinite.rb:11
c:0024 p:0062 s:0096 b:0096 l:000f84 d:000f84 METHOD infinite.rb:11
c:0023 p:0062 s:0091 b:0091 l:0017f4 d:0017f4 METHOD infinite.rb:11
c:0022 p:0062 s:0086 b:0086 l:001e4c d:001e4c METHOD infinite.rb:11
c:0021 p:0062 s:0081 b:0081 l:00113c d:00113c METHOD infinite.rb:11
c:0020 p:0062 s:0076 b:0076 l:00166c d:00166c METHOD infinite.rb:11
c:0019 p:0062 s:0071 b:0071 l:0010b4 d:0010b4 METHOD infinite.rb:11
c:0018 p:0062 s:0066 b:0066 l:00128c d:00128c METHOD infinite.rb:11
c:0017 p:0062 s:0061 b:0061 l:0019a4 d:0019a4 METHOD infinite.rb:11
c:0016 p:0062 s:0056 b:0056 l:000aac d:000aac METHOD infinite.rb:11
c:0015 p:0062 s:0051 b:0051 l:001a8c d:001a8c METHOD infinite.rb:11
c:0014 p:0062 s:0046 b:0046 l:0007f4 d:0007f4 METHOD infinite.rb:11
c:0013 p:0062 s:0041 b:0041 l:0010ac d:0010ac METHOD infinite.rb:11
c:0012 p:0062 s:0036 b:0036 l:001ea4 d:001ea4 METHOD infinite.rb:11
c:0011 p:0062 s:0031 b:0031 l:002004 d:002004 METHOD infinite.rb:11
c:0010 p:0011 s:0026 b:0026 l:0000e0 d:000025 LAMBDA infinite.rb:3
c:0009 p:---- s:0022 b:0022 l:000021 d:000021 FINISH
c:0008 p:---- s:0020 b:0020 l:000019 d:000019 CFUNC :call
c:0007 p:0009 s:0018 b:0018 l:000017 d:000017 METHOD infinite.rb:2
c:0006 p:0009 s:0014 b:0014 l:001384 d:000013 BLOCK infinite.rb:15
c:0005 p:---- s:0011 b:0011 l:000010 d:000010 FINISH
c:0004 p:---- s:0009 b:0009 l:000008 d:000008 CFUNC :times
c:0003 p:0044 s:0006 b:0006 l:001384 d:000f5c EVAL infinite.rb:14
c:0002 p:---- s:0004 b:0004 l:000003 d:000003 FINISH
```

c:0001 p:0000 s:0002 b:0002 l:001384 d:001384 TOP

infinite.rb:9: [BUG] object allocation during garbage collection phase
ruby 1.9.1p429 (2010-07-02 revision 28523) [i686-linux]

-- control frame -----

```
c:0055 p:---- s:0243 b:0243 l:000242 d:000242 CFUNC :caller
c:0054 p:0012 s:0240 b:0238 l:000e8c d:000237 LAMBDA infinite.rb:9
c:0053 p:---- s:0235 b:0235 l:000234 d:000234 FINISH
c:0052 p:---- s:0233 b:0233 l:000232 d:000232 CFUNC :call
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```

c:0049 p:0062 s:0221 b:0221 l:0024dc d:0024dc METHOD infinite.rb:11
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c:0045 p:0062 s:0201 b:0201 l:001e54 d:001e54 METHOD infinite.rb:11
c:0044 p:0062 s:0196 b:0196 l:0005a4 d:0005a4 METHOD infinite.rb:11
c:0043 p:0062 s:0191 b:0191 l:000ecc d:000ecc METHOD infinite.rb:11
c:0042 p:0062 s:0186 b:0186 l:00007c d:00007c METHOD infinite.rb:11
c:0041 p:0062 s:0181 b:0181 l:0024c4 d:0024c4 METHOD infinite.rb:11
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c:0035 p:0062 s:0151 b:0151 l:00238c d:00238c METHOD infinite.rb:11
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c:0033 p:0062 s:0141 b:0141 l:0012d4 d:0012d4 METHOD infinite.rb:11
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c:0003 p:0044 s:0006 b:0006 l:001384 d:000f5c EVAL infinite.rb:14
c:0002 p:---- s:0004 b:0004 l:000003 d:000003 FINISH

c:0001 p:0000 s:0002 b:0002 l:001384 d:001384 TOP

-- Ruby level backtrace information-----

infinite.rb:9:in caller'
infinite.rb:9:inblock in recurse'
infinite.rb:8:in call'
infinite.rb:8:inrecurse'
infinite.rb:11:in recurse'
infinite.rb:11:inrecurse'
infinite.rb:11:in recurse'
infinite.rb:11:inrecurse'
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infinite.rb:11:inrecurse'
infinite.rb:11:in recurse'
infinite.rb:11:inrecurse'

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infinite.rb:11:in recurse'  
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infinite.rb:11:in recurse'  
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infinite.rb:11:in recurse'  
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infinite.rb:11:in recurse'  
infinite.rb:11:in recurse'  
infinite.rb:3:in block in foo'  
infinite.rb:2:in call'  
infinite.rb:2:in foo'  
infinite.rb:15:in block in '  
infinite.rb:14:in times'  
infinite.rb:14:in'
```

-- C level backtrace information -----

```
0x811d0a8 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(rb_vm_bugreport+0x48) [0x811d0a8]  
0x8149538 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x8149538]  
0x81495bb /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(rb_bug+0x2b) [0x81495bb]  
0x8062720 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(rb_data_object_alloc+0) [0x8062720]  
0x81277fc /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x81277fc]  
0x8127a5e /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x8127a5e]  
0x8127fc2 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(rb_ary_new+0x12) [0x8127fc2]  
0x810efb9 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(rb_make_backtrace+0x29) [0x810efb9]  
0x811d08a /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(rb_vm_bugreport+0x2a) [0x811d08a]  
0x8149538 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x8149538]  
0x81495bb /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(rb_bug+0x2b) [0x81495bb]  
0x8061165 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x8061165]  
0x80614ae /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x80614ae]  
0x80617a6 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x80617a6]  
0x80d59c2 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(st_foreach+0xe2) [0x80d59c2]  
0x805f2f7 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x805f2f7]  
0x8061b1d /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x8061b1d]  
0x806268e /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(rb_newobj+0x3e) [0x806268e]  
0x80de02d /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(rb_str_buf_new+0x1d) [0x80de02d]  
0x80d29bb /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(rb_enc_vsprintf+0x2b) [0x80d29bb]  
0x80d2a50 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(rb_vsprintf+0x20) [0x80d2a50]  
0x80d2a7b /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(rb_sprintf+0x1b) [0x80d2a7b]  
0x810ef01 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x810ef01]  
0x810fd32 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x810fd32]  
0x810dea6 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x810dea6]  
0x810f5ea /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x810f5ea]  
0x8110454 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x8110454]  
0x8112b84 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x8112b84]  
0x8116d95 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x8116d95]
```

```

0x8117354 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x8117354]
0x81177d1 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(rb_vm_invoke_proc+0x81) [0x81177d1]
0x805d054 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x805d054]
0x810dea6 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x810dea6]
0x8118caa /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x8118caa]
0x810fe8a /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(rb_funcall2+0x10a) [0x810fe8a]
0x81188a3 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(rb_eval_cmd+0xe3) [0x81188a3]
0x805fc21 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x805fc21]
0x805a1ae /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(rb_protect+0xbe) [0x805a1ae]
0x805f91e /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x805f91e]
0x805f9cc /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x805f9cc]
0x805fbde /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x805fbde]
0x81204da /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x81204da]
0x81105bb /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x81105bb]
0x8111c1f /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x8111c1f]
0x8116d95 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x8116d95]
0x8117354 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x8117354]
0x81177d1 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(rb_vm_invoke_proc+0x81) [0x81177d1]
0x805d054 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x805d054]
0x810dea6 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x810dea6]
0x8118caa /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x8118caa]
0x810fe8a /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(rb_funcall2+0x10a) [0x810fe8a]
0x81188a3 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(rb_eval_cmd+0xe3) [0x81188a3]
0x805fc21 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x805fc21]
0x805a1ae /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(rb_protect+0xbe) [0x805a1ae]
0x805f91e /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x805f91e]
0x805f9cc /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x805f9cc]
0x805fbde /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x805fbde]
0x81204da /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x81204da]
0x81105bb /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x81105bb]
0x8111c1f /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x8111c1f]
0x8116d95 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x8116d95]
0x8117354 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x8117354]
0x8117c57 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(rb_yield+0x47) [0x8117c57]
0x807b641 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x807b641]
0x810f5ea /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x810f5ea]
0x8110454 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x8110454]
0x8112b84 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x8112b84]
0x8116d95 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x8116d95]
0x8116f45 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(rb_iseq_eval_main+0x95) [0x8116f45]
0x805aaef /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(ruby_exec_node+0x9f) [0x805aaef]
0x805bb62 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(ruby_run_node+0x42) [0x805bb62]
0x8059680 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby(main+0x60) [0x8059680]
0x343e8c /lib/libc.so.6(__libc_start_main+0xdc) [0x343e8c]
0x8059561 /opt/swe/tools/ext/gnu/ruby-1.9.1_p429/i686-linux2.6/bin/ruby [0x8059561]

```

[NOTE]

You may encounter a bug of Ruby interpreter. Bug reports are welcome.

For details: <http://www.ruby-lang.org/bugreport.html>

```

1 <internal:gem_prelude>:286:in `push_all_highest_version_gems_on_load_path'
1 <internal:gem_prelude>:355:in `<compiled>'
1 <internal:gem_prelude>:38:in `dir'
1 <internal:gem_prelude>:47:in `path'
1 <internal:gem_prelude>:69:in `force_encoding'
1 <internal:gem_prelude>:69:in `set_home'
1 <internal:gem_prelude>:76:in `set_paths'
1 Error loading gem paths on load path in gem_prelude
1 can't modify frozen string
35 x: infinite.rb:2:in `foo'
8 x: infinite.rb:8:in `recurse'

```

7002 y: infinite.rb:2:in foo'

31485 y: infinite.rb:8:inrecurse'

1017 y: infinite.rb:9:in block in recurse'

2002 y: infinite.rb:9:inprint'

1 y: infinite.rb:9:in `recurse'

History

#1 - 06/08/2012 09:09 AM - **ibc (Iñaki Baz Castillo)**

It does not crash for me using Ruby 1.9.3p0. I've also added a thread on top of the above script:

```
Thread.new do
  loop do
    sleep 0.01
    GC.start
  end
end
```

I use it to force GC and detect C extensions errors. As said before, I cannot reproduce the crash in 1.9.3p0.

#2 - 07/14/2012 01:49 PM - **ko1 (Koichi Sasada)**

- *Status changed from Open to Feedback*
- *Target version set to 2.0.0*

Can you reproduce it on the trunk?

#3 - 10/27/2012 09:25 AM - **ko1 (Koichi Sasada)**

- *Assignee set to authorNari (Narihiro Nakamura)*

nari-san, could you check it?

#4 - 10/27/2012 02:55 PM - **authorNari (Narihiro Nakamura)**

- *Status changed from Feedback to Rejected*

Ummm.. I can't reproduce SEGV in trunk.

Please reopen this ticket if you reproduce it.

Thanks.