Ruby master - Bug #13537

ruby crash in rb_gc_mark

05/02/2017 02:28 PM - viamin (Bart Agapinan)

Status: Closed
Priority: Normal
Assignee: 
Target version: ruby -v: 2.4.1p111
Backport: 2.2: DONTNEED, 2.3: DONTNEED, 2.4: DONE

Description
ruby crashes on me fairly regularly while working on a rails app. It happens after a file has changed and the guard gem fires up some tests. It appears to be happening when running rubycritic via guard:

```
running flay smells
running flog smells
...
running reek smells
...
running complexity
...
running attributes
...
running churn
```

```
/usr/local/var/rbenv/versions/2.4.1/lib/ruby/2.4.0/pathname.rb:41: [BUG] rb_gc_mark(): 0x007fd0efd68a68 is T_NONE
ruby 2.4.1p111 (2017-03-22 revision 58053) [x86_64-darwin16]
```

Related issues:
Related to Ruby master - Bug #13605: GC bug calling `ObjectSpace.each_object` Closed

History
#1 - 05/02/2017 03:09 PM - ko1 (Koichi Sasada)
It should be marking miss failure.
Could you give us the way to reproduce it?

#2 - 05/02/2017 05:49 PM - nobu (Nobuyoshi Nakada)
- File bug-13537.log added
- Description updated

#3 - 05/29/2017 02:50 PM - kwilczynski (Krzysztof Wilczynski)
I can confirm having the same issue. It's intermediate but reproducible, and affects both 2.4.0 and 2.4.1 versions.

The setup is simple:

- OS X (macOS 10.12.5 with latest patches)
- XCode command line tools (also latest)
- rbenv with ruby-install (installed via Homebrew)

The guard Ruby gem is installed and run using fnotify events to trigger builds, and it would randomly crash Ruby interpreter. Sometimes at the very beginning, sometimes after running a while.

Since I test against multiple Ruby versions, I can confirm that this does not happen on 2.2.6 and 2.3.3, only 2.4.x family is affected.

#4 - 05/30/2017 02:16 AM - ko1 (Koichi Sasada)
If you can modify MRI source code, please try to change RGENG.CHECK_MODE in gc.c to 2 and run your program on your modified MRI again. It will inserts many assertions and it may help.

Thanks,

09/01/2022
#5 - 06/28/2017 03:07 AM - wanabe (_wanabe)
Is this same to #13605 and fixed at r59063?

#6 - 06/28/2017 03:07 AM - wanabe (_wanabe)
- Related to Bug #13605: GC bug calling "ObjectSpace.each_object" added

#7 - 08/01/2017 07:15 AM - djellemah (John Anderson)
I get the same error running the Pry rspec suite.

[BUG] rb_gc_mark(): 0x0000000036d2bc8 is T_NONE

The value 0x0000000036d2bc8 varies.

Using ruby 2.4.2p161 (2017-07-23 revision 59409) [x86_64-linux]

When I change RGENGC_CHECK_MODE in gc.c to 2, it fails every time and I get this output

verify_internal_consistency_reachable_i: WB miss (O->Y) 0x0000000000000000 6fd868 [0 ] T_OBJECT (Time)
verify_internal_consistency_reachable_i: WB miss (O->Y) 0x0000000000000000 6fd870 [0 ] T_OBJECT (Time)
verify_internal_consistency_reachable_i: WB miss (O->Y) 0x0000000000000000 6fd878 [0 ] T_OBJECT (Time)
ruby 2.4.2p161 (2017-07-23 revision 59409) [x86_64-linux]

#8 - 08/02/2017 02:11 AM - ko1 (Koichi Sasada)
could you with check recent trunk (2.5dev)? I'm not sure recent 2.4 has backport patch (r59063).

#9 - 08/05/2017 04:21 PM - djellemah (John Anderson)
I've been running the Pry rspec suite repeatedly with
ruby 2.5.0dev (2017-08-05 trunk 59519) [x86_64-linux]
ruby 2.4.2p181 (2017-08-05 revision 59520) [x86_64-linux]
and I don't get the crash.

Thanks :-)

#10 - 08/07/2017 01:22 AM - ko1 (Koichi Sasada)
- Status changed from Open to Closed

:tda:

#11 - 08/08/2017 11:45 AM - usa (Usaku NAKAMURA)
- Backport changed from 2.2: UNKNOWN, 2.3: UNKNOWN, 2.4: UNKNOWN to 2.2: DONTNEED, 2.3: DONTNEED, 2.4: DONE

Files
ruby_2017-05-02-065959_Barts-iMac.crash 27.2 KB 05/02/2017 viamin (Bart Agapinan)
bug-13537.log 159 KB 05/02/2017 nobu (Nobuyoshi Nakada)