

Backport191 - Bug #2295

segmentation faults

10/28/2009 08:41 AM - tomer.doron (tomdor)

Status: Closed	
Priority: Normal	
Assignee:	
Target version:	
ruby -v: ruby 1.9.1p243 (2009-07-16 revision 24175) [i686-linux]	
Description =begin My server crashes 3-4 times a day with segmentation faults. the fault is not always a same spot, so the attached is just an example of one occurrence. I will keep adding more reports as they come along. The application is a ruby in rails stack on top of mysql. Ruby compiled from source on fedora 8 running on EC2. =end	
Related issues:	
Related to Backport191 - Bug #2019: Segmentation fault in ruby 1.9.1-p243 on ...	Rejected 08/31/2009
Related to Backport191 - Bug #2309: Segfault, repeatable testcase, possibly r...	Closed
Related to Ruby master - Bug #4350: Segmentation fault and Bus Error	Rejected 01/31/2011

History

#1 - 10/28/2009 08:45 AM - tomer.doron (tomdor)

- File *segfault2.txt* added

=begin
another example
=end

#2 - 10/28/2009 08:46 AM - tomer.doron (tomdor)

- File *segfault3.txt* added

=begin
same as attachment 1, so you can ignore this one
=end

#3 - 10/28/2009 08:49 AM - tomer.doron (tomdor)

- File *segfault3.txt* added

=begin
another example
=end

#4 - 10/28/2009 08:51 AM - tomer.doron (tomdor)

=begin
looks similar to what is described in [#2019](#)
=end

#5 - 10/28/2009 09:47 AM - nobu (Nobuyoshi Nakada)

- Status changed from *Open* to *Feedback*

=begin
Which of MySQL/Ruby or Ruby/MySQL, and what version of it and Rails?
=end

#6 - 10/28/2009 12:30 PM - tomer.doron (tomdor)

=begin
rails 2.3.4
mysql gem 2.8.1

=end

#7 - 10/28/2009 12:43 PM - tomer.doron (tomdor)

- *File related_error.txt added*

=begin
another c level exception that shows up in log and may be related
=end

#8 - 10/28/2009 01:14 PM - marcandre (Marc-Andre Lafortune)

- *Status changed from Feedback to Open*

=begin

=end

#9 - 10/28/2009 03:43 PM - tomer.doron (tomdor)

- *File segfault4.txt added*

=begin
and one last example for today :)
=end

#10 - 10/29/2009 04:47 AM - rogerdpack (Roger Pack)

=begin
any way to reliably recreate? Maybe try it with the trunk version of 1.9.1?
GL.
-r
=end

#11 - 10/29/2009 07:49 AM - tomer.doron (tomdor)

=begin
while this is happening on production several times a day, there is not a specific scenario i can refer you to. it is more random in nature like memory issues tend to be. so, while I cant say it is easily recreatable, it is most certainly reliably recreatable... I can keep uploading the crash reports as they come through.

few data points:

- this is running on fedora 8 VM in amazon EC2
- ruby compiled from source.

=end

#12 - 10/30/2009 01:43 AM - rogerdpack (Roger Pack)

=begin
Have you tried it on other servers? under valgrind?
Can you create unit tests that thrash the system until it occurs? (No reproducibility...hard).
-r
=end

#13 - 10/30/2009 05:25 AM - tomer.doron (tomdor)

=begin
Same exact applications was deployed on a different production environment using OSX server with ruby 1.9.1 from MacPorts, I did not experience these issues in that environment. As I moved my servers to amazon EC2 redeployed on amazon's Fedora 8 core VMs and compiled ruby 1.9.1 from source. At first everything seemed fine, but then as users started pounding the system these crashes started to appear, as this is a production environment I could not stay with it crashing all the time and I rebuilt the server with ruby 1.8 and the issues are gone.

I still have the 1.9.1. installation available, but without stress it would be more difficult to recreate. I can certainly install valgrind and do some further debugging. will update with info once I have some.
=end

#14 - 11/24/2009 10:53 AM - jarrednicholls (Jarred Nicholls)

=begin
to mer,

I ran into seg faults on my EC2 boxes with 1.9.1 as well. If your issue is that same as mine, you need to change your kernel and ramdisk for your EC2 instance from the default (which I believe is 2.6.21) to a different version (i.e., 2.6.18). Amazon is doing updates to fix their 2.6.21 and their Ubuntu Server 2.6.31 (beta) kernel. But, if you load the 2.6.18 kernel and associated ramdisk, you might not have those problems anymore. However, my issue literally crashed the kernel/instance and forced a reboot of the instance. But, you can at least give it a shot.

Kernel ID: aki-f5c1219c
Ramdisk ID: ari-dbc121b2

I wish you luck. For me, I simply went back to using Passenger with Ruby EE (which is 1.8.7), and did a patch to the Passenger gem to do asynchronous request dispatching to allow for long running I/O requests to run in parallel so they wouldn't block short quick requests from getting through. I'll move to 1.9 when everything is more stable, and/or go to JRuby if I need true & fast multi-threading. I tried JRuby and was having issues with Cookie Store and decided its memory footprint was way too big for the time being.

Jarred
=end

#15 - 12/20/2009 06:22 AM - tomer.doron (tom er doron)

=begin
I have set up a new EC2 instance with the suggested kernel, but i am afraid that has not solved the issue and I am still getting similar segmentation faults. I will have to roll back again to 1.8 until this is resolved.

Because the segmentation faults are inconsistent and not unique to one area of the code, I assume this is somewhere deeper in the EC2 kernel or core ruby code or (and more likely) in the combination of 1.9 and EC2 kernel. if anyone has good suggestions as to how to trace the root cause, I am willing to invest the time to do the research.
=end

#16 - 12/22/2009 03:30 PM - tomer.doron (tom er doron)

=begin
attempted upgrading to 1.9.1-p376, ruby compiled from source using gcc with --enable-shared option

similar segmentation faults occur on both fedora 8 and ubuntu 9.04 jaunty

=end

#17 - 08/27/2019 04:50 PM - jeremyevans0 (Jeremy Evans)

- Status changed from Open to Closed
- Description updated

Files

segfault1.txt	20.5 KB	10/28/2009	tom er.doron (tom er doron)
segfault2.txt	3.55 KB	10/28/2009	tom er.doron (tom er doron)
segfault3.txt	20.5 KB	10/28/2009	tom er.doron (tom er doron)
segfault3.txt	16 KB	10/28/2009	tom er.doron (tom er doron)
related_error.txt	1.9 KB	10/28/2009	tom er.doron (tom er doron)
segfault4.txt	29.6 KB	10/28/2009	tom er.doron (tom er doron)