Ruby - Bug #7350

Segmentation fault with ruby 1.9.3p328 (2012-11-13) [x86_64-linux]

11/14/2012 02:08 PM - ggiesemann (Geoffrey Giesemann)

Status:	Rejected		
Priority:	Normal		
Assignee:	mame (Yusuke Endoh)		
Target version:	2.0.0		
ruby -v:	ruby 1.9.3p328 (2012-11-13) [x86_64-linux]	**Backport:**	

Description

I'm experiencing sporadic segmentation faults in a ruby daemon running with:

ruby 1.9.3p328 (2012-11-13) [x86_64-linux]

This is actually the 1.9.3p327 ruby patched with https://github.com/ruby/ruby/commit/ae2df330 as the issue http://bugs.ruby-lang.org/issues/7123 looked similar to the one I was experiencing.

The daemon in question sits in a loop pulling messages out of an ActiveMQ server using the stomp gem; DOM parsing a file locally using libxml-ruby; then stuffing another message back on to the server using the same stomp client. I haven't been able to isolate the problem into a smaller block; but I can reproduce it in ~15 minutes on an AWS test server.

I've included two examples of crash output, I have several more from 1.9.3p286.

Happy to try patches or anything further to help debug/diagnose the issue.

History

#1 - 11/14/2012 02:34 PM - usa (Usaku NAKAMURA)

Can you check with trunk?

Yes, it may be difficult, I know.

It seems that crash1.log suggests the cause is in libxml-ruby gem, maybe GC bug.
crash2.log suggests ... . a string passed to Pathname is broken.

Does anyone have any idea?

#2 - 11/20/2012 08:28 AM - ggiesemann (Geoffrey Giesemann)

Argh, my bad - I think it's a problem with how we were using libxml-ruby rather thank a ruby bug.

We had an area of code where we weren't correctly importing nodes into documents (see "Memory Management" in http://libxml.rubyforge.org/rdoc/) which looks like it caused bizarro heap corruption :S

For some reason this is much easier to replicate when you have a deeper call stack - like if you're inside a stomp gem handling a message frame - than it is with a vanilla code sample.

I have a reasonably small code sample to reproduce this, but you'll need a STOMP server to make it work.

#3 - 11/24/2012 06:12 PM - mame (Yusuke Endoh)

- Status changed from Open to Feedback

- Target version set to 2.0.0

Could you show the small code sample?
I'm very happy if you kindly show the process to setup STOMP server :-)
We can make no progress without it.

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Yusuke Endoh mame@tsg.ne.jp

#4 - 02/17/2013 01:54 PM - ko1 (Koichi Sasada)

- Assignee set to mame (Yusuke Endoh)

#5 - 02/17/2013 02:50 PM - mame (Yusuke Endoh)

- Status changed from Feedback to Rejected

Marking as rejected due to no response from OP.

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Yusuke Endoh mame@tsg.ne.jp

Files

ruby-1.9.3p328.crash1.log	27.6 KB	11/14/2012	ggiesemann (Geoffrey Giesemann)
ruby-1.9.3p328.crash2.log	27.7 KB	11/14/2012	ggiesemann (Geoffrey Giesemann)