

Ruby trunk - Bug #9167

Segmentation fault in cleanup

11/27/2013 09:49 PM - BertramScharpf (Bertram Scharpf)

Status: Closed	
Priority: Normal	
Assignee:	
Target version:	
ruby -v: ruby 1.9.3p448 (2013-06-27 revision 41675) [i386-ruby 1.9.3p448 (2013-06-27 revision 41675) [i386-freebsd9]freebsd9]	Backport: 1.9.3: UNKNOWN, 2.0.0: UNKNOWN

Description

I don't know whether it is the interpreters fault or mine.
This is what I do:

- Subclassing StandardError in C
- Encapsulating some data into it using Data_Make_Struct
- Raising this exception
- Not catching it by "rescue"

If I catch it by "rescue", everything is fine. If I don't, the finalizer crashes with a segmentation fault.

I made a gem out of it containing the full example and a little bit more description. See the attached file.

This gem contains a build dependency, so you probably prefer to untar it and compile it on the command line by "cc". This is what I have to do here:

```
$ cc -c -DHAVE_HEADER_RUBY_RUBY_H -I/usr/local/include/ruby-1.9 -I/usr/local/include/ruby-1.9/i386-freebsd9 -fPIC -o dataerr.o dataerr.c
$ cc --shared -o dataerr.so dataerr.o
$ ruby -r ./dataerr -e 'begin ; raise_it! ; rescue ; end'
-> Return code 0
$ ruby -r ./dataerr -e 'raise_it!'
-> Segmentation fault
```

Associated revisions

Revision 04ca48fc - 11/30/2013 08:46 AM - nobu (Nobuyoshi Nakada)

eval.c: determine exit status and signal before finalization

- eval.c (ruby_cleanup): determine exit status and signal to terminate before finalization, to get rid of access destroyed T_DATA exception object. [ruby-core:58643] [Bug #9167]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@43930 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 43930 - 11/30/2013 08:46 AM - nobu (Nobuyoshi Nakada)

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History

#1 - 11/30/2013 01:53 PM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Feedback

Fundamentally, subclasses of Exception are not expected other than T_OBJECT.
And I couldn't reproduce it with the trunk, can't you show your backtrace?

#2 - 11/30/2013 05:46 PM - nobu (Nobuyoshi Nakada)

- Status changed from Feedback to Closed

- % Done changed from 0 to 100

This issue was solved with changeset r43930.
Bertram, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

eval.c: determine exit status and signal before finalization

- eval.c (ruby_cleanup): determine exit status and signal to terminate before finalization, to get rid of access destroyed T_DATA exception object. [ruby-core:58643] [Bug #9167]

#3 - 12/06/2013 06:38 AM - BertramScharpf (Bertram Scharpf)

nobu (Nobuyoshi Nakada) wrote:

Bertram, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.

Thank you for fixing it.
I'll keep my eyes open.

Files

dataerr-0.0.gem	6 KB	11/27/2013	BertramScharpf (Bertram Scharpf)
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