

Ruby - Bug #15179

Segfault caused by only 'loop{ x<<[] }'

09/30/2018 09:22 AM - aki.k ()

Status:	Closed	
Priority:	Normal	
Assignee:		
Target version:		
ruby -v:	ruby 2.5.1p57 (2018-03-29 revision 63029) [x86_64-linux-gnu]	Backport: 2.3: UNKNOWN, 2.4: UNKNOWN, 2.5: UNKNOWN

Description

Segmentation fault is caused after many objects allocation instead of ' '.
About 30sec and 16-26GB memory used.

OS: Ubuntu 18.04LTS ja (Remix) on VMware ESXi 6.7
RAM: 32GB
apt install ruby-dev

user@ruby:~\$ ruby -v ruby 2.5.1p57 (2018-03-29 revision 63029) [x86_64-linux-gnu] user@ruby:~\$ uname -a Linux ruby 4.15.0-34-generic #37-Ubuntu SMP Mon Aug 27 15:21:48 UTC 2018 x86_64 x86_64 x86_64 GNU/Linux user@ruby: free -g total used free shared buff/cache available Mem: 31 1 28 0 1 29 Swap: 1 0 1

x=[] loop { x << [] }
or
ruby -e x=[]; loop { x << [] }"

Ubuntu18.04LTS
ruby16GB26GB

32GB

Ubuntu16.04LTS, Windows10

OS
ruby
ruby -e; free -g; ruby -e 2 core dump
OS

errorrebootSegmentation fault
initSegmentation fault->

History

#1 - 10/01/2018 03:32 AM - yugui (Yuki Sonoda)

- Status changed from Open to Feedback

Linuxvm.overcommit_memory

#2 - 10/01/2018 04:09 AM - aki.k ()

```
$ cat /proc/sys/vm/overcommit_memory
0
$ sudo sh -c "echo 2 > /proc/sys/vm/overcommit_memory"
$ cat /proc/sys/vm/overcommit_memory
2
$ ruby -e 'x=[]; loop { x<<[] }'
[FATAL] failed to allocate memory

overcommit_ratio 50
overcommit_ratio 17GB OOM killer
overcommit OOM killer
ruby
  • ruby /
    overcommit_memory=2, overcommit_ratio=90
  • Ubuntu16.04LTS overcommit_memory
#3 - 10/01/2018 01:33 PM - aki.k ( )
  overcommit ubuntu
  18.04LTS segfault
  OS
```

#4 - 10/17/2019 09:59 PM - jeremyevans0 (Jeremy Evans)
- Status changed from Feedback to Closed

Files			
log.txt	26.1 KB	09/30/2018	aki.k ()