

Ruby - Bug #8095

[patch] gc: fix unlimited memory growth with large values of RUBY_FREE_MIN

03/14/2013 06:46 PM - tmm1 (Aman Karmani)

Status:	Closed	Backport:
Priority:	Normal	
Assignee:	authorNari (Narihiro Nakamura)	
Target version:		
ruby -v:	ruby 2.1.0dev (2013-03-14 trunk 39748) [x86_64-darwin12.2.1]	
Description		
Normally, do_heap_free is set to 65% of total slots available.		
But if you specify a very large RUBY_FREE_MIN, then do_heap_free is always set to 100%. This results in a memory leak over time. Instead of forcing do_heap_free = 100%, the following patch sets do_heap_free = max(RUBY_FREE_MIN, 65%)		
<pre>diff --git a/gc.c b/gc.c index bd95073..4103af6 100644 --- a/gc.c +++ b/gc.c @@ -1973,8 +1973,9 @@ before_gc_sweep(rb_objspace_t *objspace) objspace->heap.do_heap_free = (size_t)((heaps_used * HEAP_OBJ_LIMIT) * 0.65); objspace->heap.free_min = (size_t)((heaps_used * HEAP_OBJ_LIMIT) * 0.2); if (objspace->heap.free_min < initial_free_min) { [REDACTED] objspace->heap.free_min = initial_free_min; [REDACTED] [REDACTED] } objspace->heap.sweep_slots = heaps; objspace->heap.free_num = 0;</pre>		

Associated revisions

Revision 03c7f0ca43a65b18d81387f82bf91e5d5bc14bee - 03/18/2013 09:03 AM - authorNari (Narihiro Nakamura)

- gc.c: Fix unlimited memory growth with large values of RUBY_FREE_MIN. patched by tmm1(Aman Gupta). [Bug #8095] [ruby-core:53405]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@39810 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 03c7f0ca - 03/18/2013 09:03 AM - authorNari (Narihiro Nakamura)

- gc.c: Fix unlimited memory growth with large values of RUBY_FREE_MIN. patched by tmm1(Aman Gupta). [Bug #8095] [ruby-core:53405]

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Revision 8e4d69ade41440c86fdbb766c77145013f12a48d - 04/07/2013 03:11 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) 39810: [Backport #8145]

```
* gc.c: Fix unlimited memory growth with large values of
RUBY_FREE_MIN. patched by tmm1(Aman Gupta).
[Bug #8095] [ruby-core:53405]
```

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_0_0@40177 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

merge revision(s) 39810: [Backport #8145]

```
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  RUBY_FREE_MIN. patched by tmm1 (Aman Gupta).
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History

#1 - 03/18/2013 06:03 PM - authorNari (Narihiro Nakamura)

- Status changed from Open to Closed

- % Done changed from 0 to 100

This issue was solved with changeset r39810.
Aman, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

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[Bug [#8095](#)] [[ruby-core:53405](#)]