

## Ruby trunk - Bug #2279

### When embedding Ruby 1.9.1 it's impossible to disable GC

10/27/2009 02:17 AM - romanbsd (Roman Shterenzon)

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b>	
<b>Target version:</b>	
<b>ruby -v:</b> ruby 1.9.1p291 (2009-10-25 revision 25484) [i386-darwin10.0.0]	<b>Backport:</b>
<b>Description</b> =begin The function <code>vm_xmalloc()</code> will call <code>garbage_collect_with_gvl()</code> even if <code>dont_gc</code> is set by <code>rb_gc_disable()</code> . This is ok (though wastes some CPU cycles) when the code is running in native Ruby interpreter, as later the <code>garbage_collect</code> checks this flag. What happens in embedded ruby, is that in <code>garbage_collect_with_gvl()</code> the <code>ruby_native_thread_p()</code> returns false, and the process exits with "[FATAL] failed to allocate memory" (so it seems, that the problem is even more serious, as if the GC is enabled, and the code which triggers GC is in C, then the program will exit as well).  I propose not to invoke <code>garbage_collect_with_gvl</code> in the first place, or, exit it right away if <code>dont_gc</code> is true. =end	

#### History

##### #1 - 10/27/2009 08:07 AM - matz (Yukihiro Matsumoto)

- Status changed from Open to Closed

- % Done changed from 0 to 100

=begin  
This issue was solved with changeset r25498.  
Roman, thank you for reporting this issue.  
Your contribution to Ruby is greatly appreciated.  
May Ruby be with you.

=end

##### #2 - 10/27/2009 04:09 PM - romanbsd (Roman Shterenzon)

=begin  
r21463 (originally r21441) still bothers me, as a GC which is triggered in C code of the embedding application (say `rb_ary_new`) will cause the application to exit with fatal error, as it's not `ruby_native_thread_p()`. Should I open a separate bug for this issue? Thank you in advance.  
=end

##### #3 - 10/27/2009 09:40 PM - matz (Yukihiro Matsumoto)

=begin  
Hi,

In message "Re: [ruby-core:26356] [Bug #2279] When embedding Ruby 1.9.1 it's impossible to disable GC" on Tue, 27 Oct 2009 16:09:49 +0900, Roman Shterenzon [redmine@ruby-lang.org](mailto:redmine@ruby-lang.org) writes:

|r21463 (originally r21441) still bothers me, as a GC which is triggered in C code of the embedding application (say `rb_ary_new`) will cause the application to exit with fatal error, as it's not `ruby_native_thread_p()`. Should I open a separate bug for this issue? Thank you in advance.

I don't get the situation yet. Please file another bug.

matz.

=end