

Ruby - Bug #16598

Backport af899503 to ruby_2_7

01/28/2020 12:44 AM - nagachika (Tomoyuki Chikanaga)

Status:	Closed	
Priority:	Normal	
Assignee:		
Target version:		
ruby -v:	-	
Backport:		2.5: DONTNEED, 2.6: DONTNEED, 2.7: DONE
Description		
nobu said that the fix at af899503 is also necessary for ruby_2_7 branch.		

Associated revisions

Revision 716e05b82338d75452e86c999ae3e5874a642ecd - 01/30/2020 01:01 AM - nobu (Nobuyoshi Nakada)

Fixed a segfault GC.verify_compaction_references

Which is by coercion of Qundef, when any keyword argument without toward: option is given. [Bug #16598]

Revision 716e05b82338d75452e86c999ae3e5874a642ecd - 01/30/2020 01:01 AM - nobu (Nobuyoshi Nakada)

Fixed a segfault GC.verify_compaction_references

Which is by coercion of Qundef, when any keyword argument without toward: option is given. [Bug #16598]

Revision 716e05b8 - 01/30/2020 01:01 AM - nobu (Nobuyoshi Nakada)

Fixed a segfault GC.verify_compaction_references

Which is by coercion of Qundef, when any keyword argument without toward: option is given. [Bug #16598]

History

#1 - 01/28/2020 12:58 AM - nobu (Nobuyoshi Nakada)

- Description updated

A patch without gc.rb.

```
commit 030a30a0dc301e79b147233d2142822915f7dde9
Author:    Nobuyoshi Nakada <nobu@ruby-lang.org>
AuthorDate: 2020-01-27 10:46:57 +0900
Commit:    Nobuyoshi Nakada <nobu@ruby-lang.org>
CommitDate: 2020-01-28 09:49:53 +0900
```

```
Fixed a segfault `GC.verify_compaction_references`
```

```
Which is by coercion of `Qundef`, when any keyword argument
without `toward:` option is given. [Bug #16598]
```

```
diff --git a/gc.c b/gc.c
index 131ffb8246..4704925abc 100644
--- a/gc.c
+++ b/gc.c
@@ -8618,7 +8618,7 @@ gc_compact_after_gc(rb_objspace_t *objspace, int use_toward_empty, int use_doubl
/*
 * call-seq:
- * GC.verify_compaction_references -> nil
+ * GC.verify_compaction_references(toward: nil, double_heap: nil) -> nil
 *
 * Verify compaction reference consistency.
 *
@@ -8656,7 +8656,7 @@ gc_verify_compaction_references(int argc, VALUE *argv, VALUE mod)
```

```

    }
    rb_get_kwargs(opt, keyword_ids, 0, 2, kwvals);
-   if (rb_intern("empty") == rb_sym2id(kwvals[0])) {
+   if (kwvals[0] != Qundef && rb_intern("empty") == rb_sym2id(kwvals[0])) {
        use_toward_empty = TRUE;
    }
    if (kwvals[1] != Qundef && RTEST(kwvals[1])) {
diff --git a/test/ruby/test_gc_compact.rb b/test/ruby/test_gc_compact.rb
index e93e775279..75d9b01f2c 100644
--- a/test/ruby/test_gc_compact.rb
+++ b/test/ruby/test_gc_compact.rb
@@ -39,6 +39,8 @@
    hash = list_of_objects.hash
    GC.verify_compaction_references(toward: :empty)
    assert_equal hash, list_of_objects.hash
+   GC.verify_compaction_references(double_heap: false)
+   assert_equal hash, list_of_objects.hash
  end

  def walk_ast ast

```

#2 - 03/13/2020 12:24 PM - naruse (Yui NARUSE)

- Backport changed from 2.5: DONTNEED, 2.6: DONTNEED, 2.7: REQUIRED to 2.5: DONTNEED, 2.6: DONTNEED, 2.7: DONE

ruby_2_7 716e05b82338d75452e86c999ae3e5874a642ecd [Backport [#16598](#)].