With Ruby 3.0.4, I observe the following segfault, which was not the case for Ruby 3.0.2, neither this is issue for Ruby 3.1.2:

... snip ...

```
[ 8892/21302] TestGCCompact#test_ast_compacts<internal:gc>:213: [BUG] Couldn't unprotect page 0x00000158eac000
```

```
ruby 3.0.4p208 (2022-04-12 revision 3fa771dedd) [powerpc64le-linux]
```

```
-- Control frame information -------------------------------
c:0031 p:0003 s:0175 e:000174 METHOD <internal:gc>:213
```
Related issues:
Related to Ruby master - Bug #18394: Backports for read barrier for GC compac... Closed
Related to Ruby master - Bug #18133: LTO: TestGCCompact#test_ast_compacts seg... Assigned

09/01/2022
History

1 - 04/20/2022 03:01 PM - vo.x (Vit Ondruch)
There will probably be more like this, e.g. [8892/21298] TestGCCompact#test_compact_count<internal:gc>:213: [BUG] Couldn't unprotect page 0x000000146808000

2 - 04/20/2022 04:48 PM - vo.x (Vit Ondruch)
- Subject changed from TestGCCompact#test_ast_compacts on PPC to /TestGCCompact#test_(ast_compacts|compact_count|complex_hash_keys|gc_compact_stats)/ fails on PPC

3 - 04/21/2022 07:58 AM - vo.x (Vit Ondruch)
I think this is related to #18133 and #18394

4 - 04/21/2022 07:58 AM - vo.x (Vit Ondruch)
- Related to Bug #18394: Backports for read barrier for GC compaction for Ruby 3.0 added

5 - 04/21/2022 07:58 AM - vo.x (Vit Ondruch)
- Related to Bug #18133: LTO: TestGCCompact#test_ast_compacts segfaults on i686 added

6 - 04/21/2022 09:45 AM - vo.x (Vit Ondruch)
- Status changed from Open to Closed
- Backport changed from 2.7: UNKNOWN, 3.0: UNKNOWN, 3.1: UNKNOWN to 2.7: DONTNEED, 3.0: REQUIRED, 3.1: DONTNEED

Closing this to trigger backport. Either the https://github.com/ruby/ruby/pull/4227 or the patch from #18394 should be applied.