ruby testsuite fails on s390x alpine (musl) with --with-coroutine=copy
04/23/2020 08:05 AM - ncopa (Natanael Copa)

Status: Open
Priority: Normal
Assignee:
Target version:
ruby -v:

```
ruby 2.7.1p83 (2020-03-31 revision a0c7c23c9c) [s390x-linux-musl]
```

Backport:

```
2.5: UNKNOWN, 2.6: UNKNOWN, 2.7: UNKNOWN
```

Description

```
./revision.h unchanged

#190 test_fiber.rb:15:in `<top (required)>'
    Fiber.new()
}.resume
    :ok
 #=> "" (expected "ok")

#192 test_fiber.rb:26:in `<top (required)>'
    fibers = 100.times.collect{Fiber.new{Fiber.yield}}
    fibers.each(&:resume)
    fibers.each(&:resume)
    :ok
 #=> "" (expected "ok")

#193 test_fiber.rb:33:in `<top (required)>'
    at_exit { Fiber.new().resume }
 #=> killed by SIGFPE (signal 8)

#194 test_fiber.rb:37:in `<top (required)>'
    Fiber.new(&Object.method(:class_eval)).resume("foo")
 #=> killed by SIGFPE (signal 8) [ruby-dev:34128]

test_fiber.rb    FAIL 4/5

#934 test_massign.rb:165:in `<top (required)>'
    a,s=[],"aaa"
300.times { a<<s; s=s.succ }
 eval <<-END__
 GC.stress=true
 Fiber.new do
   #{ a.join("",") },*zzz=1
 end.resume
END__
```

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:ok

#> "" (expected "ok")  [ruby-dev:32581]

```
test_massign.rb   FAIL 1/34

#1391 test_thread.rb:310:in `<top (required)>':
  g = enum_for(:local_variables)
  loop { g.next }
  #> killed by SIGFPE (signal 8)  [ruby-dev:34128]

#1392 test_thread.rb:315:in `<top (required)>':
  g = enum_for(:block_given?)
  loop { g.next }
  #> killed by SIGFPE (signal 8)  [ruby-dev:34128]

#1393 test_thread.rb:320:in `<top (required)>':
  g = enum_for(:binding)
  loop { g.next }
  #> killed by SIGFPE (signal 8)  [ruby-dev:34128]

#1394 test_thread.rb:325:in `<top (required)>':
  g = "abc".enum_for(:scan, /./)
  loop { g.next }
  #> killed by SIGFPE (signal 8)  [ruby-dev:34128]

#1395 test_thread.rb:330:in `<top (required)>':
  g = Module.enum_for(:new)
  loop { g.next }
  #> killed by SIGFPE (signal 8)  [ruby-dev:34128]
```

test_thread.rb   FAIL 5/48

Thread count: 10000 (skipping)
FAIL 10/1409 tests failed

make: *** [uncommon.mk:751: yes-btest-ruby] Error 1

May be related to this warning:

compiling coroutine/copy/Context.c
coroutine/copy/Context.c: In function 'coroutine_restore_stack_padded':

coroutine/copy/Context.c:87:34: warning: cast from pointer to integer of different size [-Wpointer-to-int-cast]
  87 |     _longjmp(context->state, 1 | (int)buffer);
      |