Ruby master - Bug #13811
Ruby 2.4.1 fails to compile inside qemu armhf - signal 11 (Segmentation fault)

08/13/2017 09:45 PM - hackeron (Roman Gaufman)

Status: Closed
Priority: Normal
Assignee: 
Target version: 
ruby -v: 2.4.1
Backport: 2.2: UNKNOWN, 2.3: UNKNOWN, 2.4: UNKNOWN

Description
I'm using this Dockerfile to compile:
https://github.com/docker-library/ruby/blob/ecbfdeb2b71e15522b1d3df0a33685247f00616/2.4/alpine3.6/Dockerfile, except with
FROM resin/armhf-alpine (https://hub.docker.com/r/resin/armhf-alpine/) which forces docker to run through qemu with armhf
emulation.

The compile is pretty standard:

```bash
>>> autoconf
 >>> gnuArch="$(dpkg-architecture --query DEB_BUILD_GNU_TYPE)"
 # the configure script does not detect isnan/isinf as macros
 >>> export ac_cv_func_isnan=yes ac_cv_func_isinf=yes
 >>> ./configure
 --build="$gnuArch"
 --disable-install-doc
 --enable-shared
 >>> make -j "$nproc"
 >>> make install
```

The above compiles without issues on an armhf and amd64 device, however when compiling through qemu armhf, it throws the
following segmentation fault:

```
compiling util.c
compiling variable.c
compiling version.c
compiling vm.c
In file included from vm.c:293:0:
vm_exec.c: In function 'vm_exec_core':
vm_exec.c:83:18: warning: variable 'reg_pc' set but not used [-Wunused-but-set-variable]
         const VALUE *reg_pc;        ^~
compiling vm_backtrace.c
compiling vm_dump.c
compiling vm_trace.c
compiling ./missing/explicit_bzero.c
compiling ./missing/setproctitle.c
compiling addr2line.c
compiling dmyenc.c
compiling dln.c
compiling localeinit.c
compiling prelude.c
compiling array.c
compiling enc/ascii.c
compiling enc/us_ascii.c
compiling enc/unicode.c
compiling enc/trans/newline.c
vm.c: At top level:
cc1: warning: unrecognized command line option '-Wno-self-assign'
cc1: warning: unrecognized command line option '-Wno-constant-logical-operand'
cc1: warning: unrecognized command line option '-Wno-parentheses-equality'
linking miniruby
```

12/17/2020
generating encdb.h
qemu: uncaught target signal 11 (Segmentation fault) - core dumped
make: *** [uncommon.mk:854: encdb.h] Segmentation fault
make: *** Waiting for unfinished jobs....
qemu: uncaught target signal 11 (Segmentation fault) - core dumped

Any ideas?

History
#1 - 07/26/2019 09:33 PM - jeremyevans0 (Jeremy Evans)
- Status changed from Open to Feedback

Does this still happen with Ruby 2.5.5, 2.6.3, or the master branch?

#2 - 08/13/2019 05:10 AM - jeremyevans0 (Jeremy Evans)
- Status changed from Feedback to Closed