

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/ecbfdeb2b71e155222b1d3df0a33685247f00616/2.4/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:

```
&& 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/utf_8.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
```

```
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
make: *** [uncommon.mk:643: .rbconfig.time] Segmentation fault
```

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