

Ruby - Bug #18050

Cannot build ruby-2.7.4 on NetBSD

07/27/2021 03:00 PM - sydoofficialous (Kenneth Dunlap)

Status:	Closed	
Priority:	Normal	
Assignee:		
Target version:		
ruby -v:		Backport: 2.6: UNKNOWN, 2.7: UNKNOWN, 3.0: UNKNOWN

Description

NetBSD juggler.panix.com 9.1 NetBSD 9.1 (PANIX-STD) #2: Thu Mar 18 17:46:23 EDT 2021 root@juggler.panix.com:/misc/obj64/misc/devel/netbsd/9.1/src/sys/arch/amd64/compile/PANIX-STD amd64

Configuration summary for ruby version 2.7.4

```
* Installation prefix: /usr/local
* exec prefix:      ${prefix}
* arch:            x86_64-netbsd9.1
* site arch:       ${arch}
* RUBY_BASE_NAME:  ruby
* enable shared:    yes
* ruby lib prefix:  ${libdir}/${RUBY_BASE_NAME}
* site libraries path: ${rubylibprefix}/${sitearch}
* vendor path:     ${rubylibprefix}/vendor_ruby
* target OS:       netbsd9.1
* compiler:        gcc
* with pthread:    yes
* with coroutine:  ucontext
* enable shared libs: yes
* dynamic library ext: so
* CFLAGS:          ${optflags} ${debugflags} ${warnflags}
* LDFLAGS:          -L. -L/usr/local/lib -fstack-protector-strong\
                  -Wl,-export-dynamic
* DLDFLAGS:        -L. -L/usr/local/lib\
                  -Wl,--compress-debug-sections=zlib
* optflags:        -O3
* debugflags:      -ggdb3
* warnflags:       -Wall -Wextra -Wdeprecated-declarations\
                  -Wduplicated-cond -Wimplicit-function-declaration\
                  -Wimplicit-int -Wmisleading-indentation\
                  -Wpointer-arith -Wwrite-strings\
                  -Wimplicit-fallthrough=0 -Wmissing-noreturn\
                  -Wno-cast-function-type\
                  -Wno-constant-logical-operand -Wno-long-long\
                  -Wno-missing-field-initializers\
                  -Wno-overlength-strings\
                  -Wno-packed-bitfield-compat\
                  -Wno-parentheses-equality -Wno-self-assign\
                  -Wno-tautological-compare -Wno-unused-parameter\
                  -Wno-unused-value -Wsuggest-attribute=format\
                  -Wsuggest-attribute=noreturn -Wunused-variable

* strip command:   strip
* install doc:     no
* JIT support:     yes
* man page type:   man
* BASERUBY -v:     ruby 2.7.3p183 (2021-04-05 revision 6847ee089d)\
                  [x86_64-netbsd9.1]
```

In this case, make made it to here:

generating encdb.h

```

encdb.h updated
-e:1: [BUG] Segmentation fault
ruby 2.7.3p183 (2021-04-05 revision 6847ee089d) [x86_64-netbsd9.1]

-- Control frame information -----
c:0004 p:---- s:0015 e:000014 CFUNC :gets
c:0003 p:---- s:0012 e:000011 CFUNC :gets
c:0002 p:0102 s:0008 E:000750 EVAL -e:1 [FINISH]
c:0001 p:0000 s:0003 E:001d70 (none) [FINISH]

-- Ruby level backtrace information -----
-e:1:in `<main>'
-e:1:in `gets'
-e:1:in `gets'

-- C level backtrace information -----
/usr/local/lib/libruby.so.27(rb_profile_frame_full_label+0x19) [0x79121c4bc4b7]
/usr/local/lib/libruby.so.27(rb_profile_frame_full_label+0x7c) [0x79121c4bc54a]
/usr/local/lib/libruby.so.27(rb_bug+0x124) [0x79121c2bca75]
/usr/local/lib/libruby.so.27(ruby_posix_signal+0x0) [0x79121c40ef41]
/usr/lib/libc.so.12(__sigtramp_siginfo_2+0x0) [0x79121a0a1d50]

-- Other runtime information -----

* Loaded script: -e

* Loaded features:

 0 enumerator.so
 1 thread.rb
 2 rational.so
 3 complex.so
 4 ruby2_keywords.rb
 5 /usr/local/lib/ruby/2.7.0/x86_64-netbsd9.1/enc/encdb.so
 6 /usr/local/lib/ruby/2.7.0/x86_64-netbsd9.1/enc/trans/transdb.so

gmake: *** [Makefile:1489: .rbconfig.time] Abort trap (core dumped)

```

Again, it seems pretty random. First attempt, it didn't segfault until the make install phase.

Related issues:

Is duplicate of Ruby - Bug #18049: Cannot build ruby-3.0.2 on NetBSD

[Feedback](#)

History

#1 - 07/28/2021 07:36 PM - sydofficious (Kenneth Dunlap)

This turned out to be an issue with miniruby when the NetBSD kernel has PaX ASLR (Address Space Layout Randomization) enabled. The following patch, applied post-configure, works around the problem.

```

--- Makefile.orig      2021-07-28 13:31:38.018160281 -0400
+++ Makefile           2021-07-28 13:37:35.292884198 -0400
@@ -270,6 +270,7 @@
     $(ECHO) linking $@
     $(Q) $(PURIFY) $(CC) $(LDFLAGS) $(XLDFLAGS) $(NORMALMAINOBJ) $(MINIOBJS) $(COMMONOBJS) $(MAINLIBS) $(LIBS) $(OUTFLAG) $@
     $(Q) $(POSTLINK)
+    paxctl +a $@

$(PROGRAM) :
    @$ (RM) $@

```

#2 - 07/29/2021 06:47 AM - nobu (Nobuyoshi Nakada)

- Is duplicate of Bug #18049: Cannot build ruby-3.0.2 on NetBSD added

#3 - 07/29/2021 06:47 AM - nobu (Nobuyoshi Nakada)

- Description updated

#4 - 06/10/2022 07:24 AM - mame (Yusuke Endoh)

- Status changed from Open to Closed

According to the OP, there is the same issue in Ruby 3.0 and the same fix works for Ruby 3.0. Continue to discuss it in [#18049](#). Closing this.