

Ruby master - Bug #6066

Fix "control may reach end of non-void function" warnings for clang

02/23/2012 09:39 AM - drbrain (Eric Hodel)

Status:	Closed	
Priority:	Normal	
Assignee:	drbrain (Eric Hodel)	
Target version:	2.0.0	
ruby -v:	ruby 2.0.0dev (2012-02-23 trunk 34755) [x86_64-darwin11.3.0]	Backport:
Description		
=begin clang 3.1 is more picky about "control may reach end of non-void function"		
The attached patches contain add (({return Qnil; /* not reached */})) or the equivalent where the warnings occurred.		
=end		

Associated revisions

Revision da39d32f - 04/13/2012 11:45 PM - drbrain (Eric Hodel)

- encoding.c (rb_enc_codepoint_len): Use UNREACHABLE to avoid "control reaches end of non-void function" warnings. [ruby-trunk - Bug #6066]
- re.c (name_to_backref_number): ditto.
- object.c (rb_Float): ditto.
- io.c (io_readpartial): ditto.
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git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@35321 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

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History

#1 - 02/23/2012 09:41 AM - drbrain (Eric Hodel)

Patches were not added in-order.

Note that return.combined.patch contains all the other patches grouped together

#2 - 02/23/2012 04:42 PM - nobu (Nobuyoshi Nakada)

clang 3.1 is more picky about "control may reach end of non-void function"

or doesn't deal with noreturn attribute properly?

Anyway, (ID)NULL seems odd.

#3 - 02/24/2012 09:29 AM - drbrain (Eric Hodel)

=begin

Yes, (ID)NULL seems odd to me too.

clang supports __builtin_unreachable():

http://clang.lvm.org/docs/LanguageExtensions.html#_builtin_unreachable

It looks like replacing (({return Qnil; /* NOT REACHED */})) lines with __builtin_unreachable() may improve optimizations with clang.

Adding configure support to detect __builtin_unreachable() looks like it is beyond my knowledge based on the __builtin_setjmp() detection, can you help me?

=end

#4 - 02/25/2012 05:19 PM - naruse (Yui NARUSE)

- Status changed from Open to Closed

r34784 uses __builtin_unreachable().

#5 - 02/25/2012 06:03 PM - nobu (Nobuyoshi Nakada)

- Status changed from Closed to Open

No, the commit just checks the function, and defines UNREACHABLE macro.

#6 - 02/26/2012 07:02 AM - drbrain (Eric Hodel)

Thank you, I will post an updated patch using UNREACHABLE

#7 - 02/26/2012 01:39 PM - drbrain (Eric Hodel)

- File return.UNREACHABLE.patch added

This patch updates all -Wreturn-type warning locations to use the UNREACHABLE macro.

#8 - 02/26/2012 02:08 PM - drbrain (Eric Hodel)

- File return.not_reached.convert.patch added

=begin

This patch updates existing (({return Qnil; /* not reached */})) with (({UNREACHABLE;}))

I did not change (({trace_en()})) in variable.c as it seems to return, I think the (({/* not reached */})) should be removed, but can you check it?

=end

#9 - 03/11/2012 05:38 PM - ko1 (Koichi Sasada)

- Assignee set to nobu (Nobuyoshi Nakada)

#10 - 03/18/2012 06:46 PM - shyouhei (Shyouhei Urabe)

- Status changed from Open to Assigned

#11 - 04/12/2012 06:35 AM - drbrain (Eric Hodel)

Nobu, may I commit this?

#12 - 04/12/2012 10:42 AM - nobu (Nobuyoshi Nakada)

- Assignee changed from nobu (Nobuyoshi Nakada) to drbrain (Eric Hodel)

Feel free.

#13 - 04/14/2012 08:45 AM - drbrain (Eric Hodel)

- Status changed from Assigned to Closed

- % Done changed from 0 to 100

This issue was solved with changeset r35321.

Eric, thank you for reporting this issue.

Your contribution to Ruby is greatly appreciated.

May Ruby be with you.

-
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- vm_inshelper.c (vm_search_normal_superclass): ditto.
- bignum.c (big_fdiv): ditto.
- marshal.c (r_symlink): ditto.
- marshal.c (r_symbol): ditto.

#14 - 04/14/2012 09:38 AM - drbrain (Eric Hodel)

r35322 is also part of this bug, but I forgot to mention it in my commit message.

#15 - 04/14/2012 02:16 PM - nobu (Nobuyoshi Nakada)

- Category set to misc

- Status changed from Closed to Assigned

- Target version set to 2.0.0

Thank you for the commit, and found r35322 let older compilers and non-gcc compilers warn unreachable code. UNREACHABLE should not replace those `return`s, but be appended, I think.

#16 - 04/14/2012 02:17 PM - nobu (Nobuyoshi Nakada)

- % Done changed from 100 to 50

#17 - 04/17/2012 08:02 PM - nobu (Nobuyoshi Nakada)

- Status changed from Assigned to Closed

- % Done changed from 50 to 100

Files

fiddle.return.patch	404 Bytes	02/23/2012	drbrain (Eric Hodel)
ripper.return.patch	391 Bytes	02/23/2012	drbrain (Eric Hodel)
socket.return.patch	774 Bytes	02/23/2012	drbrain (Eric Hodel)
tk.return.patch	1.46 KB	02/23/2012	drbrain (Eric Hodel)
return.combined.patch	10.4 KB	02/23/2012	drbrain (Eric Hodel)
core.return.patch	5.75 KB	02/23/2012	drbrain (Eric Hodel)
bigdecimal.return.patch	409 Bytes	02/23/2012	drbrain (Eric Hodel)
digest.return.patch	904 Bytes	02/23/2012	drbrain (Eric Hodel)
dl.return.patch	354 Bytes	02/23/2012	drbrain (Eric Hodel)
return.UNREACHABLE.patch	10.9 KB	02/26/2012	drbrain (Eric Hodel)
return.not_reached.convert.patch	10.7 KB	02/26/2012	drbrain (Eric Hodel)