

Ruby master - Bug #15520

[patch] configure should refuse to build with jemalloc when headers are missing

01/10/2019 04:03 AM - mistydemeo (Misty De Meo)

Status:	Closed	
Priority:	Normal	
Assignee:		
Target version:		
ruby -v:	ruby 2.7.0dev (2019-01-10 fix_jemalloc_i.. 66768) [x86_64-darwin18]	Backport: 2.4: REQUIRED, 2.5: DONE, 2.6: DONE

Description

When the `--with-jemalloc` option is passed, the configure script will correctly fail with an error if the library is missing. However, if the library is present and headers are missing, configure will succeed and allow the build to proceed. The actual build is unlikely to succeed in this case since the functions won't be defined.

Steps to reproduce:

1. Install jemalloc.
2. Delete jemalloc's headers.
3. Run `./configure --with-jemalloc && make`

Expected behaviour:

configure fails because the requested jemalloc's headers are missing

Actual behaviour:

configure succeeds. On macOS, the build then fails with the following:

```
compiling gc.c
gc.c:7955:12: error: implicit declaration of function 'malloc_usable_size' is invalid in C99
      [-Werror,-Wimplicit-function-declaration]
      return malloc_usable_size(ptr);
             ^
gc.c:7955:12: note: did you mean 'malloc_good_size'?
/Library/Developer/CommandLineTools/SDKs/MacOSX10.14.sdk/usr/include/malloc/malloc.h:134:15: note:
  'malloc_good_size' declared here
extern size_t malloc_good_size(size_t size);
             ^
1 error generated.
make: *** [gc.o] Error 1
```

The attached patch fixes this by ensuring that configure fails if `--with-jemalloc` is passed but the headers are missing in the same way that it will fail if the library is missing.

This patch is against trunk. I've also reproduced it in several previous versions of Ruby.

Associated revisions

Revision `bb44d9ec` - 01/10/2019 02:44 PM - nobu (Nobuyoshi Nakada)

configure: refuse to build with jemalloc when header is missing

[ruby-core:90964] [Bug #15520]

From: Misty De Meo mistydemeo@github.com

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@66779 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision `66779` - 01/10/2019 02:44 PM - nobu (Nobuyoshi Nakada)

configure: refuse to build with jemalloc when header is missing

[ruby-core:90964] [Bug #15520]

From: Misty De Meo mistydemeo@github.com

Revision d79405ff - 01/17/2019 10:07 PM - naruse (Yui NARUSE)

merge revision(s) 66779: [Backport #15520]

configure: refuse to build with jemalloc when header is missing

[ruby-core:90964] [Bug #15520]

From: Misty De Meo <mistydemeo@github.com>

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_6@66852 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 66852 - 01/17/2019 10:07 PM - naruse (Yui NARUSE)

merge revision(s) 66779: [Backport #15520]

configure: refuse to build with jemalloc when header is missing

[ruby-core:90964] [Bug #15520]

From: Misty De Meo <mistydemeo@github.com>

Revision 7e157824 - 03/13/2019 12:06 AM - nagachika (Tomoyuki Chikanaga)

merge revision(s) 66779: [Backport #15520]

configure: refuse to build with jemalloc when header is missing

[ruby-core:90964] [Bug #15520]

From: Misty De Meo <mistydemeo@github.com>

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_5@67240 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 67240 - 03/13/2019 12:06 AM - nagachika (Tomoyuki Chikanaga)

merge revision(s) 66779: [Backport #15520]

configure: refuse to build with jemalloc when header is missing

[ruby-core:90964] [Bug #15520]

From: Misty De Meo <mistydemeo@github.com>

History

#1 - 01/10/2019 07:53 AM - shevegen (Robert A. Heiler)

The actual build is unlikely to succeed in this case since the functions won't be defined.

Agreed, makes sense to me. I remember that I may run into similar situations every now and then when I e. g. wish to upgrade some program manually on my own but may have forgotten to remove all old parts of that program (e. g. under the /usr/ hierarchy). I don't know if this applies to Mac but on Linux I remember similar situations here and there.

#2 - 01/10/2019 02:44 PM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Closed

Applied in changeset [trunk|r66779](#).

configure: refuse to build with jemalloc when header is missing

[ruby-core:90964] [Bug [#15520](#)]

From: Misty De Meo mistydemeo@github.com

#3 - 01/10/2019 11:40 PM - mistydemeo (Misty De Meo)

Thanks for the quick response! Could you backport this to the active backport branches, too?

#4 - 01/15/2019 02:59 AM - nagachika (Tomoyuki Chikanaga)

- Backport changed from 2.4: UNKNOWN, 2.5: UNKNOWN, 2.6: UNKNOWN to 2.4: REQUIRED, 2.5: REQUIRED, 2.6: REQUIRED

#5 - 01/17/2019 10:07 PM - naruse (Yui NARUSE)

- Backport changed from 2.4: REQUIRED, 2.5: REQUIRED, 2.6: REQUIRED to 2.4: REQUIRED, 2.5: REQUIRED, 2.6: DONE

ruby_2_6 r66852 merged revision(s) 66779.

#6 - 03/13/2019 12:06 AM - nagachika (Tomoyuki Chikanaga)

- Backport changed from 2.4: REQUIRED, 2.5: REQUIRED, 2.6: DONE to 2.4: REQUIRED, 2.5: DONE, 2.6: DONE

ruby_2_5 r67240 merged revision(s) 66779.

Files

0001-configure-refuse-to-build-with-jemalloc-when-header-.patch	933 Bytes	01/10/2019	mistydemeo (Misty De Meo)
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