

Ruby - Bug #18387

Backport of fix for #16798 to Ruby 2.6 introduced C99 syntax

12/05/2021 03:51 AM - jeremyevans0 (Jeremy Evans)

Status:	Closed	
Priority:	Normal	
Assignee:	usa (Usaku NAKAMURA)	
Target version:		
ruby -v:		Backport: 2.6: DONE, 2.7: DONTNEED, 3.0: DONTNEED
Description		
Building Ruby 2.6.9 on OpenBSD/sparc64 fails with the following error:		
<pre>cc -O2 -pipe -fPIC -D_FORTIFY_SOURCE=2 -fstack-protector-strong -fno-strict-overflow -fvisibility=hidden -DRUBY_EXPORT -DCANONICALIZATION_FOR_MATHN -DOPENSSL_NO_STATIC_ENGINE -I/usr/local/include -I. -I.ext/include/sparc64-openbsd -I./include -I. -I./enc/unicode/12.1.0 -o hash.o -c hash.c hash.c: In function 'keylist_delete': hash.c:5661: error: 'for' loop initial declaration used outside C99 mode</pre>		
The system compiler in this case is gcc 4.2.1, which defaults to C89/C90. I believe Ruby didn't switch to C99 until Ruby 2.7, so I think this is a bug that should be fixed in the next release of Ruby 2.6.		
This issue was introduced by fe85a3d5271c4e3aeda42ec32e9c3f9ee02b6897 , a backport of 08529a61153e5c40f57a65272211357511d6e6db .		
This patch should hopefully fix it (untested):		
<pre>diff --git a/hash.c b/hash.c index 38440f4b96..65a0419af3 100644 --- a/hash.c +++ b/hash.c @@ -5655,10 +5655,10 @@ env_invert(void) static void keylist_delete(VALUE keys, VALUE key) { - long keylen, elen; + long keylen, elen, i; const char *keyp, *eptr; RSTRING_GETMEM(key, keyp, keylen); - for (long i=0; i<RARRAY_LEN(keys); i++) { + for (i=0; i<RARRAY_LEN(keys); i++) { + VALUE e = RARRAY_AREF(keys, i); RSTRING_GETMEM(e, eptr, elen); if (elen != keylen) continue;</pre>		
I'm not sure if this is the only C99 issue introduced in Ruby 2.6.9, so other changes between 2.6.8 and 2.6.9 should be audited to ensure they do not introduce C99 syntax.		

Associated revisions

Revision 560a4cdf0433a42b635384ba1e1324471f19b785 - 04/12/2022 10:52 AM - U.Nakamura

fix for #16798 to Ruby 2.6 introduced C99 syntax [Backport #18387]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_6@67955 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 560a4cdf0433a42b635384ba1e1324471f19b785 - 04/12/2022 10:52 AM - U.Nakamura

fix for #16798 to Ruby 2.6 introduced C99 syntax [Backport #18387]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_6@67955 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 560a4cdf - 04/12/2022 10:52 AM - U.Nakamura

fix for #16798 to Ruby 2.6 introduced C99 syntax [Backport #18387]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_6@67955 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

History

#1 - 12/05/2021 05:17 PM - usa (Usaku NAKAMURA)

it's unintentionally, so I'll fix it later. thx!

#2 - 04/12/2022 10:53 AM - usa (Usaku NAKAMURA)

- Backport changed from 2.6: *REQUIRED*, 2.7: *DONTNEED*, 3.0: *DONTNEED* to 2.6: *DONE*, 2.7: *DONTNEED*, 3.0: *DONTNEED*