

Ruby - Bug #11483

internal.h included after math.h in complex.c

08/24/2015 06:55 PM - ReiOdaira (Rei Odaira)

Status:	Closed	
Priority:	Normal	
Assignee:		
Target version:		
ruby -v:	ruby 2.3.0dev (2015-08-23 trunk 51669) [powerpc-aix7.1.2.0]	Backport: 2.0.0: UNKNOWN, 2.1: UNKNOWN, 2.2: UNKNOWN
Description <p>r51313 modified complex.c to include internal.h after math.h, so that ruby/missing.h (included from internal.h) can test whether M_PI is defined or not in math.h. Unfortunately, ruby/config.h, which is included from internal.h, defines _LARGE_FILES, which must be defined before sys/types.h is included from math.h. Otherwise, in AIX, off_t would be incorrectly defined as a 32-bit integer even when large files are used.</p> <pre>--- complex.c (revision 51312) +++ complex.c (revision 51313) @@ -5,12 +5,12 @@ which is written in ruby. */ -#include "internal.h" +#if defined _MSC_VER +/* Microsoft Visual C does not define M_PI and others by default */ +#define _USE_MATH_DEFINES 1 +#endif +#include <math.h> + +#include "internal.h" #define NDEBUG #include <assert.h></pre> <p>There would be a couple of workarounds to fix this problem, but since I am relatively new to the Ruby core, I am wondering what would be the most acceptable way.</p>		
Related issues: <p>Blocks Ruby - Misc #11516: Ruby 2.3.0 release engeneering</p>		
		Closed

Associated revisions

Revision c3b02d572c86ba128c25a22d00b3ad3c36ffe295 - 09/23/2015 03:08 PM - Rei Odaira

complex.c: ruby/config.h must be included before math.h because it defines _LARGE_FILES on AIX and _LARGE_FILES must be defined before sys/types.h is included from math.h. [Bug #11483]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@51922 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision c3b02d57 - 09/23/2015 03:08 PM - Rei Odaira

complex.c: ruby/config.h must be included before math.h because it defines _LARGE_FILES on AIX and _LARGE_FILES must be defined before sys/types.h is included from math.h. [Bug #11483]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@51922 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

History

#1 - 09/09/2015 06:13 AM - naruse (Yui NARUSE)

- Blocks Misc #11516: Ruby 2.3.0 release engeneering added

#2 - 09/09/2015 09:36 PM - ReiOdaira (Rei Odaira)

Possible options:

1. Define M_PI and M_PI_2 in complex.c
2. Define _LARGE_FILES not in config.h but in a compiler option
3. Include ruby/config.h before math.h but keep internal.h included after math.h in complex.c
4. Any other options?

Option 3 looks reasonable if it is allowed to directly include ruby/config.h.

#3 - 09/23/2015 03:09 PM - Anonymous

- *Status changed from Open to Closed*

Applied in changeset r51922.

complex.c: ruby/config.h must be included before math.h
because it defines _LARGE_FILES on AIX and _LARGE_FILES
must be defined before sys/types.h is included from math.h.
[Bug [#11483](#)]