Ruby master - Bug #6462

Broken build under MinGW due undefined references
05/20/2012 12:50 AM - luislavena (Luis Lavena)

<table>
<thead>
<tr>
<th>Status:</th>
<th>Closed</th>
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<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
</tr>
<tr>
<td>Assignee:</td>
<td>nobu (Nobuyoshi Nakada)</td>
</tr>
<tr>
<td>Target version:</td>
<td>2.0.0</td>
</tr>
<tr>
<td>ruby -v:</td>
<td>ruby 1.9.3p194</td>
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</tbody>
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Description

Attempt to compile latest trunk (r35721) result in the following errors:

linking shared-library msvcrt-ruby200.dll
Creating library file: libmsvcrt-ruby200.dll.a
dln.o: In function rb_w32_check_imported:
C:\Users\Worker\Code\ruby\ruby\build32/../dln.c:1212: undefined reference to `impImageDirectoryEntryToData@16'
vm_dump.o: In function dump_thread:
C:\Users\Worker\Code\ruby\ruby\build32/../vm_dump.c:696: undefined reference to `impSymSetOptions@4'
win32/win32.o: In function StartSockets:
C:\Users\Worker\Code\ruby\ruby\build32/../win32/win32.c:670: undefined reference to `imp_WSASTartup@8'

Full output:
https://gist.github.com/2731272

Build was done with GCC 4.6.3 (mingw-w64) under Windows 7 x64. Base Ruby was 1.9.3-p194

The top output from make was:

CC = gcc
LD = ld
LDSHARED = gcc -shared -s
XCFLAGS = -include ruby/config.h -include ruby/missing.h -D_FORTIFY_SOURCE=2 -fno-strict-overflow -fvisibility=hidden -DRUBY_EXPORT
CPPFLAGS = -DFD_SETSIZE=32767 -D_WIN32_WINNT=0x0501   -I. -I.ext/include/i386-mingw32 -I../include -I..
DLDFLAGS = -WI,-enable-auto-image-base,-enable-auto-import -WI,-out-implib=libmsvcrt-ruby200.dll.a msvcrt-ruby200.def
-SI,-stack,0x02000000,-enable-auto-import
SOLIBS = msvcrt-ruby200.res.o -lshell32 -lws2_32 -limagehlp

I'm running git-bisect right now, but things were fine at r35648

I believe this is caused by static-link-ext, so I'm assigning to Nobu

Associated revisions

Revision a906a9d9 - 05/20/2012 03:25 AM - nobu (Nobuyoshi Nakada)
Bug #6462: EXTSOLIBS

- Makefile.in (LIBRUBY_SO): link EXTSOLIBS too.
- ext/extmk.rb (mf.macro): use EXTSOLIBS instead of SOLIBS to get rid of discard libraries needed by default. [Bug #6462]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@35722 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 35722 - 05/20/2012 03:25 AM - nobu (Nobuyoshi Nakada)
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History

#1 - 05/20/2012 04:37 AM - luislavena (Luis Lavena)

=begin
After git bisect was done, I can confirm that r35709 (SHA1 0e60b2c6a3c51522fc4ff06054a4ae79edaf9276) introduced the breakage:

commit 0e60b2c6a3c51522fc4ff06054a4ae79edaf9276
Author: nobu nobu@b2dd03c8-39d4-4d8f-98ff-823fe69b080e
Date: Sat May 19 02:37:21 2012 +0000

static-linked-ext: into libruby

- Makefile.in, common.mk (PROGRAM): no extension libraries.
- common.mk (build-ext): pass macros for libruby.so.
- ext/extmk.rb (command_output): link extension libraries and encoding libraries into libruby.so, not ruby executable.

=end

#2 - 05/20/2012 06:03 AM - luislavena (Luis Lavena)

=begin
The issue seems to be caused by the override of SOLIBS when --enable-shared is used to build Ruby:

https://github.com/ruby/ruby/blob/trunk/ext/extmk.rb#L665-668

By doing that, system libraries defined by LIBS (which later are used as SOLIBS) like ws2_32, shell32 and others are gone.

=end

#3 - 05/20/2012 12:25 PM - nobu (Nobuyoshi Nakada)

- Status changed from Assigned to Closed
- % Done changed from 0 to 100

This issue was solved with changeset r35722.
Luis, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.
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