

Ruby master - Feature #16795

build ruby.exe on Windows against ruby-static.lib omitting x64-vcruntime-ruby.dll (no '--enable-shared' option for Windows)

04/16/2020 07:23 PM - repu1sion (Andrii Guriev)

Status:	Open
Priority:	Normal
Assignee:	
Target version:	
Description	
<p>I'm trying to build ruby for embedded windows environment. It would help a lot if I would be able to do it without '--enable-shared' as it could be done for Linux platform. So on linux just ruby-static.a built, without any .so.</p> <p>Executable is about 10Mb and it depends only on libc, libm, libdl, libpthread.</p> <p>But in windows case there is no such option in configure.bat and as a result I have 18Kb executable and 3Mb x64-vcruntime-ruby.dll. Even if I hack Makefile.sub and change 'enable_shared' from 'yes' to 'no' it just doesn't build .dll but executable is still 18Kb and relies on missed dll, it doesn't get linked against libruby-static.lib.</p> <p>The real problem I have later when I try to build some C native extensions, so byebug for example generates its makefile automatically and builds also against x64-vcruntime-ruby.dll which leads to some segfaults because it just calls functions from .dll which is present on host but not in embedded environment. In case of linux nmap just shows that during byebug linking all ruby functions like st_lookup etc are undefined ('U' symbol). So it finds this functions later.</p> <p>But on Windows when I build byebug it already depends on x64-vcruntime-ruby.dll</p> <p>Is there any way to build ruby.exe on Windows against static lib, without relying on .dll ?</p> <p>So it seems '--enable-shared' on Windows is just enabled by default and there is no correct way to disable it (but could be done on Linux platform)</p>	

History

#1 - 04/17/2020 03:01 AM - shevegen (Robert A. Heiler)

I feel you here. Not so much due to windows, but I totally understand every preference for --enable-shared and --enable-static. :-)

Perhaps nobu and greg can help for the windows-related issues; perhaps greg even through some automated testing of required build options for your described goal ("ruby for an embedded windows environment").

May also be that not many people test the windows-build options, I think, as there may be fewer ruby devs on windows (but I do not know this for certain, I just assume). But I completely understand it - I want a super-easy, super-modular ruby too, with lots of flexibility for usage/deployment. And to work on every operating system too. :-)

#2 - 04/17/2020 01:22 PM - repu1sion (Andrii Guriev)

shevegen (Robert A. Heiler) wrote in [#note-1](#):

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just simple instructions how to build ruby.exe against static library instead of linking with x64-vcruntime-ruby.dll would be enough ;)