Ruby - Bug #20783

--enable-shared and the rpath/runpath are broken on Linux on CRuby master

10/04/2024 09:20 AM - Eregon (Benoit Daloze)

Status: Closed **Priority:** Normal Assignee: nobu (Nobuyoshi Nakada) Target version: ruby -v: Backport: 3.1: DONTNEED, 3.2: DONTNEED, 3.3: DONTNEED Description https://github.com/ruby/ruby-dev-builder/actions/runs/11095200420 \$ ruby test_files/cli_test.rb ruby: error while loading shared libraries: libruby.so.3.4: cannot open shared object file: No suc h file or directory And indeed locally I can confirm it's broken (I use ruby-build for convenience, as you can see it just does a bunch of regular build commands): \$ RUBY_CONFIGURE_OPTS=--enable-shared ruby-build ruby-dev -d ~/.rubies ==> Cloning https://github.com/ruby/ruby.git... -> git clone --depth 1 --branch master https://github.com/ruby/ruby.git ruby-master ==> Installing ruby-master... -> autoreconf -i -> ./configure "--prefix=\$HOME/.rubies/ruby-dev" --enable-shared -> make -j 16 -> make update-gems extract-gems install ==> Installed ruby-master to /home/eregon/.rubies/ruby-dev And that build with --enable-shared is not working, same as on GitHub Actions: \$ /home/eregon/.rubies/ruby-dev/bin/ruby -v /home/eregon/.rubies/ruby-dev/bin/ruby: error while loading shared libraries: libruby.so.3.4: cann ot open shared object file: No such file or directory \$ ldd /home/eregon/.rubies/ruby-dev/bin/ruby linux-vdso.so.1 (0x00007fff9018c000) libruby.so.3.4 => not found $libz.so.1 \Rightarrow /lib64/libz.so.1 (0x00007f4c8d928000)$ libcrypt.so.2 => /lib64/libcrypt.so.2 (0x00007f4c8d8ef000) $libm.so.6 \Rightarrow /lib64/libm.so.6 (0x00007f4c8d80e000)$ $libc.so.6 \Rightarrow /lib64/libc.so.6 (0x00007f4c8d62c000)$ /lib64/ld-linux-x86-64.so.2 (0x00007f4c8d95e000) \$ readelf -d /home/eregon/.rubies/ruby-dev/bin/ruby Dynamic section at offset 0x2db8 contains 29 entries: Type Name/Value 0x0000000000000001 (NEEDED) Shared library: [libruby.so.3.4] 0x0000000000000001 (NEEDED) Shared library: [libz.so.1] 0x0000000000000001 (NEEDED) Shared library: [libcrypt.so.2] 0x0000000000000001 (NEEDED) Shared library: [libm.so.6] 0x0000000000000001 (NEEDED) Shared library: [libc.so.6] 0x00000000000001d (RUNPATH) Library runpath: [/home/eregon/.rubies/ruby-dev/lib-L/hom e/eregon/.rubies/ruby-dev/lib]

@hsbt (Hiroshi SHIBATA) said he remembers https://github.com/ruby/ruby/commit/1f6d2e77d9be9a5a829e60908d21d621f4e1ceb0 changed something in this area which might be the cause.

10/05/2025

Associated revisions

Revision 79a8750ade3e332c1ab78aa9cbc6ca7fd823dec2 - 10/04/2024 09:49 AM - nobu (Nobuyoshi Nakada)

[Bug #20783] Insert a space between RPATHFLAG and LIBPATHFLAG

Revision 79a8750ade3e332c1ab78aa9cbc6ca7fd823dec2 - 10/04/2024 09:49 AM - nobu (Nobuyoshi Nakada)

[Bug #20783] Insert a space between RPATHFLAG and LIBPATHFLAG

Revision 79a8750a - 10/04/2024 09:49 AM - nobu (Nobuyoshi Nakada)

[Bug #20783] Insert a space between RPATHFLAG and LIBPATHFLAG

History

#1 - 10/04/2024 09:21 AM - Eregon (Benoit Daloze)

- Description updated

#2 - 10/04/2024 09:40 AM - Eregon (Benoit Daloze)

BTW this also shows the ruby/ruby CI does not currently test an installed ruby with --enable-shared. It seems important to add a test to avoid such regressions.

#3 - 10/04/2024 09:57 AM - nobu (Nobuyoshi Nakada)

https://github.com/ruby/ruby/pull/11797

#4 - 10/04/2024 10:08 AM - hsbt (Hiroshi SHIBATA)

- Status changed from Open to Assigned
- Assignee set to nobu (Nobuyoshi Nakada)

#5 - 10/04/2024 11:06 AM - nobu (Nobuyoshi Nakada)

- Backport changed from 3.1: UNKNOWN, 3.2: UNKNOWN, 3.3: UNKNOWN to 3.1: DONTNEED, 3.2: DONTNEED, 3.3: DONTNEED

#6 - 10/08/2024 06:50 AM - hsbt (Hiroshi SHIBATA)

- Status changed from Assigned to Closed

Fixed at https://bugs.ruby-lang.org/projects/ruby-master/repository/git/revisions/79a8750ade3e332c1ab78aa9cbc6ca7fd823dec2

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