When compiling Ruby 2.1.1, I get the following error:

```
make[2]: Entering directory '/tmp/ruby-build.20140228114849.30108/ruby-2.1.1/ext/readline'
compiling readline.c
readline.c: In function `Init_readline':
  readline.c:1977:26: error: `Function' undeclared (first use in this function)
    rl_pre_input_hook = (Function *)readline_pre_input_hook;
    ^
readline.c:1977:26: note: each undeclared identifier is reported only once for each function it appears in
readline.c:1977:36: error: expected expression before `)' token
    rl_pre_input_hook = (Function *)readline_pre_input_hook;
    ^
readline.c: At top level:
readline.c:634:1: warning: `readline_pre_input_hook' defined but not used [-Wunused-function]
  readline_pre_input_hook(void)
  ^
Makefile:228: recipe for target 'readline.o' failed
make[2]: *** [readline.o] Error 1
make[2]: Leaving directory '/tmp/ruby-build.20140228114849.30108/ruby-2.1.1/ext/readline'
exts.mk:198: recipe for target 'ext/readline/all' failed
make[1]: *** [ext/readline/all] Error 2
```

```
Readline version:
/* Hex-encoded Readline version number. */
#define RL_READLINE_VERSION 0x0603 /* Readline 6.3 */
#define RL_VERSION_MAJOR 6
#define RL_VERSION_MINOR 3
...

extern rl_hook_func_t *rl_pre_input_hook;
```

```
OS version:
Linux 3.13.5-1-ARCH #1 SMP PREEMPT Sun Feb 23 00:25:24 CET 2014 x86_64 GNU/Linux
```

I can provide full configure and make logs, if required.
Revision 45225 - 03/01/2014 07:19 AM - akr (Akira Tanaka)

- ext/readline/readline.c (Init_readline): Use rl_hook_func_t instead of Function to support readline-6.3. (rl_hook_func_t is available since readline-4.2.) Reported by Dmitry Medvinsky. [ruby-core:61141] [Bug #9578]

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Revision 4bb88114 - 03/02/2014 02:13 AM - nobu (Nobuyoshi Nakada)

extconf.rb: rl_hook_func_t for old readline

- ext/readline/extconf.rb (rl_hook_func_t): define as Function for very old readline versions. [ruby-core:61209] [Bug #9578]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@45240 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 45240 - 03/02/2014 02:13 AM - nobu (Nobuyoshi Nakada)

extconf.rb: rl_hook_func_t for old readline

- ext/readline/extconf.rb (rl_hook_func_t): define as Function for very old readline versions. [ruby-core:61209] [Bug #9578]

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Revision 45240 - 03/02/2014 02:13 AM - nobu (Nobuyoshi Nakada)

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- ext/readline/extconf.rb (rl_hook_func_t): define as Function for very old readline versions. [ruby-core:61209] [Bug #9578]

Revision 6df2fbf0 - 03/02/2014 04:33 PM - nagachika (Tomoyuki Chikanaga)
merge revision(s) r45225, r45240: [Backport #9578]

* ext/readline/extconf.rb (rl_hook_func_t): define as Function for very old readline versions. [ruby-core:61209] [Bug #9578]

Revision 66481367 - 03/31/2014 02:57 PM - nobu (Nobuyoshi Nakada)

readline/extconf.rb: fix typo

ext/readline/extconf.rb: fix typo, $defs not $DEFS. [ruby-core:61756] [Bug #9578]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_0_0@45252 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 45488 - 03/31/2014 02:57 PM - nobu (Nobuyoshi Nakada)

readline/extconf.rb: fix typo

ext/readline/extconf.rb: fix typo, $defs not $DEFS. [ruby-core:61756] [Bug #9578]

Revision 45488 - 03/31/2014 02:57 PM - nobu (Nobuyoshi Nakada)

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Revision 45488 - 03/31/2014 02:57 PM - nobu (Nobuyoshi Nakada)

readline/extconf.rb: fix typo

ext/readline/extconf.rb: fix typo, $defs not $DEFS. [ruby-core:61756] [Bug #9578]

Revision a2542330 - 04/30/2014 06:04 AM - usa (Usaku NAKAMURA)
merge revision(s) 45488: [Backport #9631]

* ext/readline/extconf.rb: fix typo, `$defs` not `$DEFS`. [ruby-core:61756] [Bug #9578]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@45488 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 45746 - 04/30/2014 06:04 AM - usa (Usaku NAKAMURA)
merge revision(s) 45488: [Backport #9631]
* ext/readline/extconf.rb: fix typo, `$defs` not `$DEFS`.
  [ruby-core:61756] [Bug #9578]

Revision ab58587f - 05/01/2014 11:55 AM - nagachika (Tomoyuki Chikanaga)
merge revision(s) r45225,r45240,r45488: [Backport #9578] [Backport #9630]

* ext/readline/readline.c (Init_readline): Use rl_hook_func_t instead of Function to support readline-6.3. (rl_hook_func_t is available since readline-4.2.)
  Reported by Dmitry Medvinsky.  [ruby-core:61141] [Bug #9578]

* ext/readline/extconf.rb (rl_hook_func_t): define as Function for very old readline versions.  [ruby-core:61209] [Bug #9578]

* ext/readline/extconf.rb: fix typo, `$defs` not `$DEFS`.
  [ruby-core:61756] [Bug #9578]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_1@45772 b2dd03c8-39d4-4d8f-98ff-823fe69b0800

Revision 45772 - 05/01/2014 11:55 AM - nagachika (Tomoyuki Chikanaga)
merge revision(s) r45225,r45240,r45488: [Backport #9578] [Backport #9630]

* ext/readline/readline.c (Init_readline): Use rl_hook_func_t instead of Function to support readline-6.3. (rl_hook_func_t is available since readline-4.2.)
  Reported by Dmitry Medvinsky.  [ruby-core:61141] [Bug #9578]

* ext/readline/extconf.rb (rl_hook_func_t): define as Function for very old readline versions.  [ruby-core:61209] [Bug #9578]

* ext/readline/extconf.rb: fix typo, `$defs` not `$DEFS`.
  [ruby-core:61756] [Bug #9578]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_1@45773 b2dd03c8-39d4-4d8f-98ff-823fe69b0800

Revision f2013ff8 - 05/01/2014 11:59 AM - nagachika (Tomoyuki Chikanaga)
merge revision(s) r45518: [Backport #9578] [Backport #9630] [Backport #9702]

* ext/readline/extconf.rb (rl_hook_func_t): check pointer type.
  [ruby-dev:48089] [Bug #9702]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_1@45773 b2dd03c8-39d4-4d8f-98ff-823fe69b0800

Revision 45773 - 05/01/2014 11:59 AM - nagachika (Tomoyuki Chikanaga)
merge revision(s) r45518: [Backport #9578] [Backport #9630] [Backport #9702]

* ext/readline/extconf.rb (rl_hook_func_t): check pointer type.
  [ruby-dev:48089] [Bug #9702]

History

#1 - 03/01/2014 07:19 AM - akr (Akira Tanaka)
- Status changed from Open to Closed
- % Done changed from 0 to 100

Applied in changeset r45225.

* ext/readline/readline.c (Init_readline): Use rl_hook_func_t instead of Function to support readline-6.3. (rl_hook_func_t is available since readline-4.2.) Reported by Dmitry Medvinsky.  [ruby-core:61141] [Bug #9578]

#2 - 03/01/2014 07:54 AM - naruse (Yui NARUSE)
- Backport changed from 1.9.3: UNKNOWN, 2.0.0: UNKNOWN, 2.1: UNKNOWN to 1.9.3: REQUIRED, 2.0.0: REQUIRED, 2.1: REQUIRED

#3 - 03/02/2014 01:52 AM - marcandre (Marc-Andre Lafortune)
- Status changed from Closed to Open

Now I can't build trunk:
ext/readline/readline.c: In function ‘Init_readline’:
  ext/readline/readline.c:1977: error: ‘rl_hook_func_t’ undeclared (first use in this function)
  ext/readline/readline.c:1977: error: (Each undeclared identifier is reported only once
  ext/readline/readline.c:1977: error: for each function it appears in.)
  ext/readline/readline.c:1977: error: expected expression before ‘)’ token

#4 - 03/02/2014 02:13 AM - nobu (Nobuyoshi Nakada)
  - Status changed from Open to Closed

Applied in changeset r45240.

extconf.rb: rl_hook_func_t for old readline
  * ext/readline/extconf.rb (rl_hook_func_t): define as Function for very old readline versions. [ruby-core:61209] [Bug #9578]

#5 - 03/02/2014 04:34 PM - nagachika (Tomoyuki Chikanaga)
  - Backport changed from 1.9.3: REQUIRED, 2.0.0: REQUIRED, 2.1: REQUIRED to 1.9.3: REQUIRED, 2.0.0: DONE, 2.1: REQUIRED
r45225 and r45240 were backported to ruby_2_0_0 at r45252.

#6 - 03/18/2014 12:57 AM - nobu (Nobuyoshi Nakada)
  - Related to Backport #9630: Backport readline-6.3 support. added

#7 - 03/30/2014 12:30 AM - taca (Takahiro Kambe)
  r45240 added these lines to extconf.rb:

  ```ruby
  unless readline.have_type("rl_hook_func_t")
    $DEFS << "-Dr1_hook_func_t=Function"
  end
  ```

  But it should be $defs instead of $DEFS?

#8 - 03/30/2014 01:22 PM - nagachika (Tomoyuki Chikanaga)
  - Status changed from Closed to Assigned
  - Assignee set to nobu (Nobuyoshi Nakada)
  - Backport changed from 1.9.3: REQUIRED, 2.0.0: DONE, 2.1: REQUIRED to 1.9.3: REQUIRED, 2.0.0: REQUIRED, 2.1: REQUIRED

#9 - 03/30/2014 10:26 PM - nobu (Nobuyoshi Nakada)
  Takahiro Kambe wrote:

  But it should be $defs instead of $DEFS?

  Exactly. Please commit it.

#10 - 03/31/2014 03:44 AM - taca (Takahiro Kambe)
  Nobuyoshi Nakada wrote:

  Takahiro Kambe wrote:

  But it should be $defs instead of $DEFS?

  Exactly. Please commit it.

Who are you asking to commit? (BTW, I am not a committer.)

#11 - 03/31/2014 02:57 PM - nobu (Nobuyoshi Nakada)
  - Status changed from Assigned to Closed

Applied in changeset r45488.
readline/extconf.rb: fix typo

- ext/readline/extconf.rb: fix typo, $defs not $DEFS. [ruby-core:61756] [Bug #9578]

#12 - 03/31/2014 02:58 PM - nobu (Nobuyoshi Nakada)
Takahiro Kambe wrote:

Who are you asking to commit? (BTW, I am not a commiter.)

Really!? 

#13 - 04/04/2014 02:22 PM - ngoto (Naohisa Goto)
- Related to Bug #9702: r45488以降、SolarisStudioで ext/readline がコンパイルエラー(readline 6.2以降) に修正 に追加

#14 - 04/28/2014 04:09 AM - nobu (Nobuyoshi Nakada)
- Description updated

#15 - 04/30/2014 05:22 AM - usa (Usaku NAKAMURA)
- Related to Backport #9631: Backport readline-6.3 support. added

#16 - 05/01/2014 12:03 PM - nagachika (Tomoyuki Chikanaga)
- Backport changed from 1.9.3: REQUIRED, 2.0.0: REQUIRED, 2.1: REQUIRED to 1.9.3: REQUIRED, 2.0.0: REQUIRED, 2.1: DONE

#17 - 05/01/2014 12:08 PM - usa (Usaku NAKAMURA)
- Backport changed from 1.9.3: REQUIRED, 2.0.0: REQUIRED, 2.1: DONE to 1.9.3: REQUIRED, 2.0.0: DONE, 2.1: DONE