

Ruby trunk - Bug #10086

[PATCH] Remove exponents calculation from mathn.rb

07/23/2014 11:57 AM - gogotanaka (Kazuki Tanaka)

Status: Closed	
Priority: Normal	
Assignee:	
Target version:	
ruby -v: 2.1.1p76	Backport: 2.0.0: UNKNOWN, 2.1: UNKNOWN
Description	
#English	
When we override <code>**</code> , we make it alias as <code>:power!</code> (mathn.rb:L73, L102)	
Like this.	
<pre>alias power! ** unless method_defined? :power!</pre>	
If user have define <code>:power!</code> , this <code>:power!</code> is called unintentionally.(mathn.rb:L82, L111)	
<pre>def ** (other) if self < 0 && other.round != other Complex(self, 0.0) ** other else power!(other) end end</pre>	
Now that we can do such a exponents calculation without mathn, we don't need exetend <code>**</code> in mathn.	
That's why I remove <code>**</code> from mathn.rb	
#	
mathn.rb <code>:**</code> <code>alias :power!</code> <code>alias</code> (mathn.rb:L73, L102)	
<pre>alias power! ** unless method_defined? :power!</pre>	
<pre>#power!</pre>	
(mathn.rb:L82, L111)	
<pre>def ** (other) if self < 0 && other.round != other Complex(self, 0.0) ** other else power!(other) end end</pre>	

power!

mathn

:** mathn

Related issues:

Related to Ruby trunk - Feature #13334: Removed deprecated mathn extentions.

Closed

Associated revisions

Revision 47290 - 08/26/2014 12:07 PM - nobu (Nobuyoshi Nakada)

lib/mathn.rb: remove built-in methods

- lib/mathn.rb (Fixnum#, **Bignum#**, Float#, **Rational#**): remove as these are now built-in. [ruby-core:63973] [Bug #10086]

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History

#1 - 07/23/2014 12:00 PM - gogotanaka (Kazuki Tanaka)

- File Remove_Fixnum#power_from_mathn.patch added
- File Remove_Bignum#power_from_mathn.patch added
- File Remove_Float#power_from_mathn.patch added
- File Remove_Rational#power_from_mathn.patch added
- File Fix_comment_at_mathn.patch added

There are my PATCHES.

PATCH

#2 - 07/31/2014 02:09 AM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Feedback

** (alias / quo)
 "multiple division" "multiple"

#3 - 07/31/2014 06:56 PM - gogotanaka (Kazuki Tanaka)

@Nobuyoshi Nakada

alias / quo

alias / quo

alias operator symbol

"multiple division" "multiple"

multiple division

multiple division

gogo.

#4 - 08/01/2014 02:09 AM - mame (Yusuke Endoh)

If you need more precise rounding with multiple division or exponentiation operations, then mathn is the right tool.

rdoc

3 / 2 1 Rational(3, 2) more precise rounding rounding rounding

-- Yusuke Endoh mame@ruby-lang.org

#5 - 08/01/2014 08:30 AM - gogotanaka (Kazuki Tanaka)

- File *improve_rdoc_mathn_l8.patch* added
- File *improve_rdoc_mathn_l20.patch* added

@Yusuke Endoh

mathn serves to make mathematical operations more precise in Ruby and to integrate other standard libraries.

mathn.rb:L20

mathn features late rounding and lacks truncation of intermediate results:

mathn keeps value in exact terms.

gogo.

#6 - 08/26/2014 12:08 PM - nobu (Nobuyoshi Nakada)

- Status changed from *Feedback* to *Closed*
- % Done changed from 0 to 100

lib/mathn.rb: remove built-in methods

- lib/mathn.rb (Fixnum#, **Bignum#**, Float#, **Rational#**): remove as these are now built-in. [Bug [#10086](#)]

#7 - 04/17/2017 05:18 AM - hsbt (Hiroshi SHIBATA)

- Related to Feature #13334: Removed deprecated mathn extentions. added

Files

Remove_Fixnum#power_from_mathn.patch	810 Bytes	07/23/2014	gogotanaka (Kazuki Tanaka)
Remove_Bignum#power_from_mathn.patch	811 Bytes	07/23/2014	gogotanaka (Kazuki Tanaka)
Remove_Float#power_from_mathn.patch	496 Bytes	07/23/2014	gogotanaka (Kazuki Tanaka)
Remove_Rational#power_from_mathn.patch	2.08 KB	07/23/2014	gogotanaka (Kazuki Tanaka)
Fix_comment_at_mathn.patch	430 Bytes	07/23/2014	gogotanaka (Kazuki Tanaka)
improve_rdoc_mathn_l8.patch	478 Bytes	08/01/2014	gogotanaka (Kazuki Tanaka)
improve_rdoc_mathn_l20.patch	301 Bytes	08/01/2014	gogotanaka (Kazuki Tanaka)