

## Ruby trunk - Bug #10086

### [PATCH] Remove exponents calculation from mathn.rb

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

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b>	
<b>Target version:</b>	
<b>ruby -v:</b> 2.1.1p76	<b>Backport:</b> 2.0.0: UNKNOWN, 2.1: UNKNOWN
<b>Description</b>	
#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 &lt; 0 &amp;&amp; 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> (mathn.rb:L73, L102)	
<pre>alias power! ** unless method_defined? :power!</pre>	
<code>#power!</code>	
(mathn.rb:L82, L111)	
<pre>def ** (other)   if self &lt; 0 &amp;&amp; other.round != other     Complex(self, 0.0) ** other   else     power!(other)   end end</pre>	

power!

mathn

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#### Related issues:

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

Closed

#### Associated revisions

##### Revision 63683cb4 - 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]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@47290 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

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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 operator) symbol  
"multiple division" "multiple" symbol

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

@Nobuyoshi Nakada

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alias / quo operator

alias operator symbol

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"multiple division" "multiple" symbol

. .

multiple division

gogo.

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

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

000 rdoc 0000000000000000

3 / 2 0 1 0000 Rational(3, 2) 0000000000  
more precise rounding 0000000000000000  
rounding 0000000000000000000000000000  
00000000 rounding 00000000

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Yusuke Endoh [mame@ruby-lang.org](mailto: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 00

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

0000000000mathn.rb:L2000

`mathn` features late rounding and lacks truncation of intermediate results:

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`mathn` keeps value in exact terms.

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gogo.

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

- Status changed from *Feedback* to *Closed*

- % Done changed from 0 to 100

Applied in changeset [r47290](#).

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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

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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)