

## Ruby master - Bug #12485

### Kernel.Rational raises TypeError though given denominator returns 1 by to\_int

06/13/2016 02:39 PM - mrkn (Kenta Murata)

<b>Status:</b> Open	
<b>Priority:</b> Normal	
<b>Assignee:</b>	
<b>Target version:</b>	
<b>ruby -v:</b> ruby 2.3.1p112 (2016-04-26 revision 54768) [x86_64-darwin15]	<b>Backport:</b> 2.1: UNKNOWN, 2.2: UNKNOWN, 2.3: UNKNOWN

#### Description

Is it an intentional behavior?

```
class << (o = Object.new)
  def to_int
    1
  end
end
```

```
Rational(1, o) #=> TypeError: not an integer
```

#### History

##### #1 - 06/13/2016 02:53 PM - mrkn (Kenta Murata)

- File *rational.c.diff* added

Attached patch can fix this issue.

##### #2 - 06/13/2016 02:58 PM - nobu (Nobuyoshi Nakada)

You can use RB\_INTEGER\_TYPE\_P in the trunk.

##### #3 - 06/13/2016 03:43 PM - mrkn (Kenta Murata)

Nobuyoshi Nakada wrote:

You can use RB\_INTEGER\_TYPE\_P in the trunk.

I forgot it. Thanks.

##### #4 - 07/25/2019 03:29 PM - jeremyevans0 (Jeremy Evans)

- File *rational-denom-to\_int.patch* added

I'm not sure if this is considered a bug or not. Rational will already try to convert numerator and denominator via to\_r. However, if we do want to convert via to\_int if to\_r is not defined, the attached patch should implement it.

#### Files

rational.c.diff	539 Bytes	06/13/2016	mrkn (Kenta Murata)
rational-denom-to_int.patch	1.73 KB	07/25/2019	jeremyevans0 (Jeremy Evans)