

## Ruby trunk - Feature #12410

### Process.uid= validation and casting

05/21/2016 03:12 PM - djberg96 (Daniel Berger)

|   |          |
|---|----------|
| <b>Status:</b>  | Rejected |
| <b>Priority:</b>  | Normal   |
| <b>Assignee:</b>  |          |
| <b>Target version:</b>  |          |
| <b>Description</b>  |          |
| OSX 10.11.4<br>Ruby 2.2.x and 2.3.x   |          |
| It seems that Ruby added the ability to use a string for Process.uid, which is nice. But, it has introduced inconsistency with regards to enforcement:  |          |
| <pre>&gt; Process.uid = 'bogus' # ArgumentError: can't find user for bogus &gt; Process.uid = 999999 # Does not raise an error, even though the uid is invalid</pre>  |          |
| Also, it seems there's some sort of casting bug for negative values:  |          |
| <pre>&gt; Process.uid = -1 # -1 &gt; Process.uid # 0 &gt; Process.uid = -2 # -2 &gt; Process.uid # 4294967294</pre>   |          |
| While this is almost certainly an issue with the underlying C function (somewhat concerning), I think we should validate the values passed to Process.uid= (and similar methods) the same way we validate it for the string. Presumably a simple getpwuid check would work. |          |

#### History

##### #1 - 05/22/2016 10:55 PM - djberg96 (Daniel Berger)

- ruby -v set to ruby 2.3.1p112 (2016-04-26 revision 54768) [x86\_64-darwin15]

##### #2 - 03/29/2017 09:31 AM - mirakui (Issei Naruta)

Wrote a patch for this ticket: <https://github.com/ruby/ruby/pull/1568>  
It validates the argument for Process#.uid= using getpwuid.

##### #3 - 03/29/2017 09:41 AM - sorah (Sorah Fukumori)

- Tracker changed from Bug to Feature

Changing this ticket into a feature request because this request wants adding a new behavior into a existing method.

##### #4 - 03/29/2017 10:02 AM - naruse (Yui NARUSE)

- Status changed from Open to Rejected

As follows, it looks because BSD id(1) handles the uid argument as 32bit integer.  
(Note that GNU coreutils' id(1) doesn't allow negative argument)

```
% id -un -- -4294967296
root
```

Therefore this behavior is considered as unexpected behavior and Ruby shouldn't follow it.