# Ruby - Bug #12100

# CSV converters fail when using single arg proc

02/22/2016 04:14 PM - mdaubert (Matthew Daubert)

Status:	Rejected		
Priority:	Normal		
Assignee:			
Target version:			
ruby -v:	all versions 2.0, 2.1, 2.2, 2.3, trunk	Backport:	2.0.0: UNKNOWN, 2.1: UNKNOWN, 2.2: UNKNOWN, 2.3: UNKNOWN
Description			
optimization check that two arguments. The do and to_proc shortcut sy	assumes Proc#arity is always positive. I cumentation suggests to me that either s yntax to be used eliminating the surprisin patch with tests is attached. I'm also cre	Lambdas with one arg should work. Supportir g behavior and uninfo	roc as a converter because of a performance ument work fine as do Procs and lambdas with ng the Proc variant is trivial and allows to_proc rmative error message. Illustration of the because I think this is a minor enough change
require 'csv'			
	<pre>foo , bar ", converters: - foo , bar ", converters: :</pre>		
# Without patch t	his outputs:		

```
require 'csv'
puts CSV.parse(" foo , bar ", converters: -> f { f.strip }).inspect
puts CSV.parse(" foo , bar ", converters: :strip.to_proc).inspect
# Without patch this outputs:
# [["foo", "bar"]]
# /home/mdaubert/.rbenv/versions/2.3.0/lib/ruby/2.3.0/csv.rb:2205:in `strip': wrong number of argu
ments (given 1, expected 0) (ArgumentError)
# With patch this outputs:
# [["foo", "bar"]]
# [["foo", "bar"]]
# [["foo", "bar"]]
```

### History

## #1 - 02/22/2016 04:41 PM - recursive-madman (Recursive Madman)

I'm pretty sure this will introduce new bugs. The meaning of an arity of -1 is "any number of arguments".

In reality you're not passing a proc which takes 1 argument (which would work w/o your patch), but a proc which takes any number of arguments. The reason for the :strip.to\_proc Proc to take an arbitrary number of arguments (while String#strip) does not, is that Symbol#to\_proc cannot know the arity of the method call it is wrapping, thus always accepting any number of arguments.

To illustrate,

:strip.to\_proc is equivalent to -> receiver, \*rest { receiver.strip(\*rest) }

When you pass a proc like: -> receiver { receiver.strip } directly, everything should work fine.

Only by using Symbol#to\_proc you "break" the arity check within the CSV library.

### #2 - 02/22/2016 04:44 PM - mdaubert (Matthew Daubert)

Upon further investigation it looks like this might actually stem from Symbol#to\_proc returning a Proc with unspecified number of arguments, which makes sence, but I think the fix here is valid regardless. What REcursive Madman said... thanks!

#### #3 - 02/22/2016 05:22 PM - mdaubert (Matthew Daubert)

Thanks for the explanation Madman, that's super helpful. So the actual bug is reproduced when passing a proc/non-lambda with any number of arguments but I agree, this would cause regressions in a case like this...

parser.convert do |\*args|
field, info = \*args
# do things and return
end

# https://bugs.ruby-lang.org/issues/12100#

I don't think there's a way to fix this without causing a regression so this can be closed.

#### #4 - 03/03/2016 05:41 AM - shyouhei (Shyouhei Urabe)

- Status changed from Open to Closed

closing as per request

# #5 - 03/24/2016 07:16 AM - usa (Usaku NAKAMURA)

- Status changed from Closed to Rejected

#### Files

fix\_csv\_converter\_single\_arg\_proc.patch

1.78 KB 02/22/2016

mdaubert (Matthew Daubert)