

Ruby master - Misc #14190

What are the semantics of \$SAFE?

12/15/2017 04:29 PM - Eregon (Benoit Daloze)

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| Status: | Open |
| Priority: | Normal |
| Assignee: | |
| Description | |
| <p>\$SAFE is documented in many places as thread-local, but it seems more than that. For example:</p> <pre># a.rb \$SAFE=1 p \$SAFE require "#{Dir.pwd.untaint}/b.rb"</pre> <p># b.rb p [:in_b, \$SAFE]</p> <p>gives:</p> <pre>\$ ruby -r./a -e 'p \$SAFE' 1 [:in_b, 0] 0</pre> <p>So in b and in -e, \$SAFE is 0. Is it file-based somehow?</p> <p>I was trying to understand what https://github.com/ruby/ruby/blob/7c4306e6e9c3c4a255f4ad20134c1832dbe45ba2/test/rubygems/test_gem.rb#L9-L13 is supposed to do. Does it make sense? What does it do? It seems the test_* methods in that file actually read \$SAFE as 0, not 1.</p> | |

History

#1 - 12/15/2017 10:28 PM - mame (Yusuke Endoh)

I'm not familiar with \$SAFE, but the scope seems finer:

```
$ ruby -e 'f = proc { $SAFE = 1; p [:in_proc, $SAFE] }; f.call; p [:out_of_proc, $SAFE]'
[:in_proc, 1]
[:out_of_proc, 0]
```