Ruby master - Bug #6884

test_fileutils.rb might end up rm -rf the whole current directory

08/17/2012 02:12 AM - Eregon (Benoit Daloze)

| Status: | Closed |
| Priority: | Normal |
| Assignee: | |
| Target version: | 2.0.0 |
| Backport: | |

**Description**

Hi,

I was preparing r36709 and launching make test-all and I interrupted it (Ctrl+C) as I forgot something. The next thing I saw is that my repository was deleted, as well as almost half the files. I think I don't need to tell you how that is fun. Hopefully I had a recent backup.

So, the culprit seems the fileutils tests coupled with #teardown being in an ensure clause. You can see this behavior in https://gist.github.com/ab7d5ea2ae68eda6398b (if you press Ctrl+C within 2 seconds or not), and in test/fileutils/test_fileutils.rb lines 97-111. If #setup is interrupted, then #teardown is still run, because it is called an ensure block (in lib/minitest/unit.rb line 1074).

What probably happened in my case is #setup did not yet Dir.chdir'd, and thus Dir.pwd in #teardown was the original current directory, and it happily rm -rf'd that at line 110.

The fix for fileutils tests is obvious, Dir.pwd should not be used there. I'll fix them unless objection.

But I'm worried about #teardown always being run (due to the ensure clause). Is that safe in the general case? It means the code must handle any part of #setup which was ran, which is increasingly complex.

Sorry for the story-telling style, but I think it might better represent the danger in this issue.

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**Associated revisions**

Revision d4c84d17 - 08/21/2012 11:32 AM - Eregon (Benoit Daloze)

make FileUtils tests safe when interrupting in setup

- test/fileutils@test_fileutils.rb (TestFileUtils#teardown): do not assume cwd is TMPROOT and never remove current directory. [ruby-core:47224][Bug #6884]

Revision 36756 - 08/21/2012 11:32 AM - Eregon (Benoit Daloze)

make FileUtils tests safe when interrupting in setup

- test/fileutils@test_fileutils.rb (TestFileUtils#teardown): do not assume cwd is TMPROOT and never remove current directory. [ruby-core:47224][Bug #6884]

Revision 36756 - 08/21/2012 11:32 AM - Eregon (Benoit Daloze)

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This issue was solved with changeset r36756.
Benoit, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.