

Ruby master - Bug #8644

valgrind error in a readline test

07/16/2013 09:13 PM - akr (Akira Tanaka)

Status:	Closed	
Priority:	Normal	
Assignee:	kouji (Kouji Takao)	
Target version:	2.6	
ruby -v:	ruby 2.1.0dev (2013-07-16 trunk 42006) [x86_64-linux]	Backport: 1.9.3: UNKNOWN, 2.0.0: UNKNOWN

Description

```
test-all [ ] readline [ ] SEGV [ ]
[ ] valgrind [ ]
```

```
% ./ruby -v
```

```
ruby 2.1.0dev (2013-07-16 trunk 42006) [x86_64-linux]
```

```
% valgrind ./ruby -I.ext/x86_64-linux ../ruby/test/runner.rb ../ruby/test/readline -n test_closed_outstream
```

```
==27651== Memcheck, a memory error detector
```

```
==27651== Copyright (C) 2002-2011, and GNU GPL'd, by Julian Seward et al.
```

```
==27651== Using Valgrind-3.7.0 and LibVEX; rerun with -h for copyright info
```

```
==27651== Command: ./ruby -I.ext/x86_64-linux ../ruby/test/runner.rb ../ruby/test/readline -n test_closed_outstream
```

```
==27651==
```

```
Run options: -n test_closed_outstream
```

```
# Running tests:
```

```
[1/1] TestReadline#test_closed_outstream==27651== Invalid read of size 4
```

```
==27651== at 0x597B610: fileno (fileno.c:37)
```

```
==27651== by 0x74A3EA6: readline_readline (readline.c:397)
```

```
==27651== by 0x390B39: call_cfunc_m1 (vm_inshelper.c:1348)
```

```
==27651== by 0x396943: vm_call_cfunc_with_frame (vm_inshelper.c:1492)
```

```
==27651== by 0x395144: vm_call_cfunc (vm_inshelper.c:1582)
```

```
==27651== by 0x394915: vm_call_method (vm_inshelper.c:1774)
```

```
==27651== by 0x396A84: vm_call_general (vm_inshelper.c:1925)
```

```
==27651== by 0x3724DC: vm_exec_core (insns.def:1017)
```

```
==27651== by 0x383DDF: vm_exec (vm.c:1198)
```

```
==27651== by 0x389DBD: invoke_block_from_c (vm.c:646)
```

```
==27651== by 0x38E299: vm_yield (vm.c:677)
```

```
==27651== by 0x380012: rb_yield_0 (vm_eval.c:937)
```

```
==27651== Address 0x847a1a0 is 0 bytes inside a block of size 568 free'd
```

```
==27651== at 0x4C27D4E: free (vg_replace_malloc.c:427)
```

```
==27651== by 0x5977CCC: fclose@@GLIBC_2.2.5 (iofclose.c:88)
```

```
==27651== by 0x190F5C: nogvl_fclose (io.c:4048)
```

```
==27651== by 0x3A33FC: call_without_gvl (thread.c:1244)
```

```
==27651== by 0x3A3532: rb_thread_call_without_gvl (thread.c:1354)
```

```
==27651== by 0x190E7C: maygvl_fclose (io.c:4057)
```

```
==27651== by 0x190620: fptr_finalize (io.c:4099)
```

```
==27651== by 0x16C922: rb_io_fptr_cleanup (io.c:4130)
```

```
==27651== by 0x16CAE7: rb_io_close (io.c:4221)
```

```
==27651== by 0x17A2F1: rb_io_close_m (io.c:4250)
```

```
==27651== by 0x390B62: call_cfunc_0 (vm_inshelper.c:1354)
```

```
==27651== by 0x396943: vm_call_cfunc_with_frame (vm_inshelper.c:1492)
```

```
==27651==
```

```
Finished tests in 0.521803s, 1.9164 tests/s, 5.7493 assertions/s.
```

```
1 tests, 3 assertions, 0 failures, 0 errors, 0 skips
```

```
ruby -v: ruby 2.1.0dev (2013-07-16 trunk 42006) [x86_64-linux]
```

```
==27651==
```

```
==27651== HEAP SUMMARY:
```

```
==27651== in use at exit: 1,905,554 bytes in 30,452 blocks
```

```
==27651== total heap usage: 94,021 allocs, 63,569 frees, 19,535,963 bytes allocated
```

```
==27651==
```


rl_getc. The difference is introduced by r42402 [ruby-dev:47509] [Bug #8644]. Before it rb_io_stdio_file set ifp->stdio_file. Therefore add manually setting the value.

- ext/readline/readline.c (readline_s_set_onput): ditto.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@42525 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 42525 - 08/11/2013 05:58 PM - naruse (Yui NARUSE)

- ext/readline/readline.c (readline_s_set_input): on OS X with editline, Readline.readline doesn't work because readline_get doesn't use rl_getc. The difference is introduced by r42402 [ruby-dev:47509] [Bug #8644]. Before it rb_io_stdio_file set ifp->stdio_file. Therefore add manually setting the value.
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```

==9994== by 0x157014: fptr_finalize (io.c:4099)
==9994== by 0x15712B: rb_io_fptr_cleanup (io.c:4130)
==9994== by 0x15740C: rb_io_close (io.c:4221)
==9994== by 0x157464: rb_io_close_m (io.c:4250)
==9994== by 0x258B2E: call_cfunc_0 (vm_ainsnhelper.c:1354)
==9994== by 0x2596EE: vm_call_cfunc_with_frame (vm_ainsnhelper.c:1492)
==9994==
-e:6:in readline': closed stdout (IOError)
from -e:6:in'
==9994==
==9994== HEAP SUMMARY:
==9994==   in use at exit: 1,503,865 bytes in 23,682 blocks
==9994== total heap usage: 41,787 allocs, 18,105 frees, 8,853,637 bytes allocated
==9994==
==9994== LEAK SUMMARY:
==9994==   definitely lost: 453,958 bytes in 4,422 blocks
==9994==   indirectly lost: 696,055 bytes in 12,524 blocks
==9994==   possibly lost: 121 bytes in 1 blocks
==9994==   still reachable: 353,731 bytes in 6,735 blocks
==9994==   suppressed: 0 bytes in 0 blocks
==9994== Rerun with --leak-check=full to see details of leaked memory
==9994==
==9994== For counts of detected and suppressed errors, rerun with: -v
==9994== ERROR SUMMARY: 1 errors from 1 contexts (suppressed: 4 from 4)
zsh: exit 1  valgrind ./ruby -rreadline -e

```

```

% ./ruby -v
ruby 2.1.0dev (2013-07-18 trunk 42040) [x86_64-linux]

```

```

readline_s_set_input readline_s_set_output
IO rb_io_stdio_file FILE *
rl_instream rl_outstream

IO#close rl_instream rl_outstream
FILE * fclose
(readline_readline) fileno(rl_instream) fileno(rl_outstream)
Invalid read
OS SEGV

rb_io_stdio_file FILE *
rl_instream rl_outstream fd dup fdopen
dup/fdopen (fd)
readline_readline errno == EBADF
readline_s_set_input readline_s_set_output nil

```

#4 - 07/18/2013 11:02 PM - akr (Akira Tanaka)

- File *readline-fix-invalid-read.patch* added

```

close IO
close

```

```

isatty EBADF
Readline.readline

```

- Raises IOError exception if below conditions are satisfied.
- 1. stdin is not tty.
- 2. stdin was closed. (errno is EBADF after called isatty(2).)

```

EBADF (
signal handler fd open
isatty tty IOError
(stdin)
isatty

```

