



```

#10 0x55b8de997000 in exe_normal_cmd /home/faraday/vim/src/ex_docmd.c:
#11 0x55b8de996589 in ex_normal /home/faraday/vim/src/ex_docmd.c:8510
#12 0x55b8de958aa4 in do_one_cmd /home/faraday/vim/src/ex_docmd.c:2567
#13 0x55b8de94c42d in do_cmdline /home/faraday/vim/src/ex_docmd.c:993
#14 0x55b8deec9c2f in do_source /home/faraday/vim/src/scriptfile.c:1512
#15 0x55b8deec6c0c in cmd_source /home/faraday/vim/src/scriptfile.c:109
#16 0x55b8deec6dc9 in ex_source /home/faraday/vim/src/scriptfile.c:1124
#17 0x55b8de958aa4 in do_one_cmd /home/faraday/vim/src/ex_docmd.c:2567
#18 0x55b8de94c42d in do_cmdline /home/faraday/vim/src/ex_docmd.c:993
#19 0x55b8de949fa7 in do_cmdline_cmd /home/faraday/vim/src/ex_docmd.c:5
#20 0x55b8df446dc9 in exe_commands /home/faraday/vim/src/main.c:3091
#21 0x55b8df4388bf in vim_main2 /home/faraday/vim/src/main.c:774
#22 0x55b8df437da5 in main /home/faraday/vim/src/main.c:426
#23 0x7f764ee940b2 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.
#24 0x55b8de6c0cbd in _start (/home/faraday/vim/src/vim+0x125ccbd)

```

0x6020000085b1 is located 0 bytes to the right of 1-byte region [0x60200000 allocated by thread T0 here:

```

#0 0x7f7650952bc8 in malloc (/lib/x86_64-linux-gnu/libasan.so.5+0x10dbc
#1 0x55b8de6c117e in lalloc /home/faraday/vim/src/alloc.c:248
#2 0x55b8de6c0f29 in alloc /home/faraday/vim/src/alloc.c:151
#3 0x55b8de6c13c2 in vim_memsave /home/faraday/vim/src/alloc.c:601
#4 0x55b8deba0ce3 in ml_replace_len /home/faraday/vim/src/memline.c:343
#5 0x55b8df128fec in u_undoredo /home/faraday/vim/src/undo.c:2811
#6 0x55b8df1262cb in undo_time /home/faraday/vim/src/undo.c:2563
#7 0x55b8de991611 in ex_undo /home/faraday/vim/src/ex_docmd.c:7979
#8 0x55b8de958aa4 in do_one_cmd /home/faraday/vim/src/ex_docmd.c:2567
#9 0x55b8de94c42d in do_cmdline /home/faraday/vim/src/ex_docmd.c:993
#10 0x55b8deec9c2f in do_source /home/faraday/vim/src/scriptfile.c:1512
#11 0x55b8deec6c0c in cmd_source /home/faraday/vim/src/scriptfile.c:109
#12 0x55b8deec6dc9 in ex_source /home/faraday/vim/src/scriptfile.c:1124
#13 0x55b8de958aa4 in do_one_cmd /home/faraday/vim/src/ex_docmd.c:2567
#14 0x55b8de94c42d in do_cmdline /home/faraday/vim/src/ex_docmd.c:993
#15 0x55b8de949fa7 in do_cmdline_cmd /home/faraday/vim/src/ex_docmd.c:5
#16 0x55b8df446dc9 in exe_commands /home/faraday/vim/src/main.c:3091
#17 0x55b8df4388bf in vim_main2 /home/faraday/vim/src/main.c:774
#18 0x55b8df437da5 in main /home/faraday/vim/src/main.c:426
#19 0x7f764ee940b2 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.

```

SUMMARY: AddressSanitizer: heap-buffer-overflow (/lib/x86\_64-linux-gnu/libc.so.6) Shadow bytes around the buggy address:

```

000000000000000000000000000000000000000000000000000000000000000000

```

Chat with us

```

0x0c04/+++9060: ta ta td td ta ta td ta ta ta td ta ta ta td ta
0x0c047fff9070: fa fa fd fd fa fa fd fd fa fa fd fd fa fa fd fd
0x0c047fff9080: fa fa fd fd fa fa fd fa fa fa fd fa fa fa fd fa

0x0c047fff9090: fa fa fd fa fa fa fd fa fa fa fd fa fa fa fd fa
0x0c047fff90a0: fa fa fd fa fa fa fd fa fa fa 03 fa fa fa 00 05
=>0x0c047fff90b0: fa fa fd fa fa fa[01]fa fa fa 01 fa fa fa fd fd
0x0c047fff90c0: fa fa 00 01 fa fa fd fa fa fa fd fd fa fa 01 fa
0x0c047fff90d0: fa fa 00 03 fa fa 01 fa fa fa fd fa fa fa fd fa
0x0c047fff90e0: fa fa fd fa fa fa fd fa fa fa fd fd fa fa 00 01
0x0c047fff90f0: fa fa fd fa fa fa fd fd fa fa fd fa fa fa fd fa
0x0c047fff9100: fa fa 02 fa fa fa 00 01 fa fa fd fa fa fa fd fd
Shadow byte legend (one shadow byte represents 8 application bytes):

```

```

Addressable:          00
Partially addressable: 01 02 03 04 05 06 07
Heap left redzone:    fa
Freed heap region:    fd
Stack left redzone:   f1
Stack mid redzone:    f2
Stack right redzone:  f3
Stack after return:   f5
Stack use after scope: f8
Global redzone:       f9
Global init order:    f6
Poisoned by user:     f7
Container overflow:    fc
Array cookie:         ac
Intra object redzone: bb
ASan internal:         fe
Left alloca redzone:  ca
Right alloca redzone: cb
Shadow gap:           cc

```

```

==52803==ABORTING

```



## Impact

This vulnerability is capable disclosing data and might lead to bypass protection mechanisms facilitating successful exploitation of other memory corruption vulnerabilities and code execution.

[Chat with us](#)

# Acknowledgements

This bug was found by Octavio Gianatiempo (ogianatiempo@faradaysec.com) and Octavio Galland (ogalland@faradaysec.com) from Faraday Research Team.

## CVE

CVE-2022-0368

(Published)

## Vulnerability Type

CWE-125: Out-of-bounds Read

## Severity

Medium (5.5)

## Visibility

Public

## Status

Fixed

## Found by



octaviogalland

@octaviogalland

unranked

## Fixed by



Bram Moolenaar

@brammool

maintainer

This report was seen 881 times.

We are processing your report and will contact the **vim** team within 24 hours. 10 months ago

We have contacted a member of the **vim** team and are waiting to hear back. 10 months ago

Bram Moolenaar 10 months ago

Chat with us

This actually looks similar to the issue reported with "t0", the copy command making the Visual area end invalid. In this case "undo" does that. I can reproduce it with the POC, will try to come up with a much simpler repro.

**Bram Moolenaar** validated this vulnerability 10 months ago

**octaviogalland** has been awarded the disclosure bounty ✓

The fix bounty is now up for grabs

**Bram Moolenaar** 10 months ago

Maintainer

Fix is in patch 8.2.4217. Managed to make a relatively simple test.

**Bram Moolenaar** marked this as fixed in 8.2 with commit 8d02ce 10 months ago

**Bram Moolenaar** has been awarded the fix bounty ✓

This vulnerability will not receive a CVE ✗

Sign in to join this conversation

2022 © 418sec

huntr

home

hacktivity

leaderboard

FAQ

part of 418sec

company

about

team

Chat with us

[FAQ](#)

[contact us](#)

[terms](#)

[privacy policy](#)

[Chat with us](#)