


```

#2 0x558a23 in mrb_realloc_simple /home/aldo/mruby/src/gc.c:226:8
#3 0x5f6b3b in stack_extend_alloc /home/aldo/mruby/src/vm.c:180:27
#4 0x5f645e in mrb_stack_extend /home/aldo/mruby/src/vm.c:200:5
#5 0x5fb720 in mrb_funcall_with_block /home/aldo/mruby/src/vm.c:543:9
#6 0x5f922d in mrb_funcall_argv /home/aldo/mruby/src/vm.c:577:10
#7 0x5f98e2 in mrb_funcall_id /home/aldo/mruby/src/vm.c:393:10
#8 0x732bbf in mrb_cmp /home/aldo/mruby/src/numeric.c:1777:9
#9 0x594f96 in r_check /home/aldo/mruby/src/range.c:39:7
#10 0x58eb2d in range_ptr_init /home/aldo/mruby/src/range.c:80:3
#11 0x58e824 in mrb_range_new /home/aldo/mruby/src/range.c:452:22
#12 0x64256d in mrb_vm_exec /home/aldo/mruby/src/vm.c:2822:17
#13 0x6076bd in mrb_vm_run /home/aldo/mruby/src/vm.c:1131:12
#14 0x600af4 in mrb_top_run /home/aldo/mruby/src/vm.c:3045:12
#15 0x6b3615 in mrb_load_exec /home/aldo/mruby/mrbgems/mruby-compiler/c
#16 0x6b4d3f in mrb_load_detect_file_cxt /home/aldo/mruby/mrbgems/mruby
#17 0x4cd46a in main /home/aldo/mruby/mrbgems/mruby-bin-mruby/tools/mru
#18 0x7ffff7c500b2 in __libc_start_main /build/glibc-sMfBJT/glibc-2.31/

```

previously allocated by thread T0 here:

```

#0 0x49a223 in __interceptor_realloc (/home/aldo/mruby/bin/mruby+0x49a2
#1 0x596e6d in mrb_default_allocf /home/aldo/mruby/src/state.c:68:12
#2 0x538a23 in mrb_realloc_simple /home/aldo/mruby/src/gc.c:226:8
#3 0x5392e9 in mrb_realloc /home/aldo/mruby/src/gc.c:240:8
#4 0x5394d1 in mrb_malloc /home/aldo/mruby/src/gc.c:256:10
#5 0x5396b2 in mrb_calloc /home/aldo/mruby/src/gc.c:274:9
#6 0x5fc1e3 in stack_init /home/aldo/mruby/src/vm.c:109:28
#7 0x6074a6 in mrb_vm_run /home/aldo/mruby/src/vm.c:1124:5
#8 0x6008c9 in mrb_top_run /home/aldo/mruby/src/vm.c:3041:12
#9 0x56daf0 in mrb_load_proc /home/aldo/mruby/src/load.c:713:10
#10 0x7a72b7 in mrb_init_mrblib /home/aldo/mruby/build/host/mrblib/mrbl
#11 0x72c015 in mrb_init_core /home/aldo/mruby/src/init.c:50:3
#12 0x596fc3 in init_gc_and_core /home/aldo/mruby/src/state.c:34:3
#13 0x532b71 in mrb_core_init_protect /home/aldo/mruby/src/error.c:588:
#14 0x596ce7 in mrb_open_core /home/aldo/mruby/src/state.c:52:7
#15 0x5971ad in mrb_open_allocf /home/aldo/mruby/src/state.c:91:20
#16 0x59714b in mrb_open /home/aldo/mruby/src/state.c:75:20
#17 0x4cbee8 in main /home/aldo/mruby/mrbgems/mruby-bin-mruby/tools/mru
#18 0x7ffff7c500b2 in __libc_start_main /build/glibc-sMfBJT/glibc-2.31/

```

SUMMARY: AddressSanitizer: heap-use-after-free (/home/aldo/
Shadow bytes around the buggy address:

```

00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

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```
0x0c32/+/+/+d0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x0c327fff7fe0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x0c327fff7ff0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
```

```
0x0c327fff8000: fa fa fa fa fa fa fa fa fa fa fa fa fa fa fa fa
0x0c327fff8010: fd fd fd fd fd fd fd fd fd fd fd fd fd fd fd fd
=>0x0c327fff8020: fd fd fd fd fd fd[fd]fd fd fd fd fd fd fd fd fd fd
0x0c327fff8030: fd fd fd fd fd fd fd fd fd fd fd fd fd fd fd fd
0x0c327fff8040: fd fd fd fd fd fd fd fd fd fd fd fd fd fd fd fd
0x0c327fff8050: fd fd fd fd fd fd fd fd fd fd fd fd fd fd fd fd
0x0c327fff8060: fd fd fd fd fd fd fd fd fd fd fd fd fd fd fd fd
0x0c327fff8070: fd fd fd fd fd fd fd fd fd fd fd fd fd fd 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
```

==64898==ABORTING



Test platform

ubuntu 20.04 with clang 13

Impact

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Denial of service. with a possible information leak / arbitrary memory read because of the

Denial of service, with a possible information leak, arbitrary memory read because of the attacker-controlled address.

Occurrences

 vm.c L2822

CVE

CVE-2022-1106

(Published)

Vulnerability Type

CWE-416: Use After Free

Severity

High (7.2)

Visibility

Public

Status

Fixed

Found by



Muhammad Aldo Firmansyah

@thecrott

legend 

Fixed by



Yukihiro "Matz" Matsumoto

@matz

maintainer

This report was seen 704 times.

We are processing your report and will contact the **mruby** team within 24 hours. 8 months ago

Muhammad Aldo Firmansyah modified the report 8 months ago

Chat with us

We have contacted a member of the **mruby** team and are waiting to hear back 8 months ago

Yukihiro "Matz" Matsumoto validated this vulnerability 8 months ago

Muhammad Aldo Firmansyah has been awarded the disclosure bounty ✓

The fix bounty is now up for grabs

Yukihiro "Matz" Matsumoto marked this as fixed in **3.2** with commit **7f5a49** 8 months ago

Yukihiro "Matz" Matsumoto has been awarded the fix bounty ✓

This vulnerability will not receive a CVE ✗

vm.c#L2822 has been validated ✓

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