

# NULL Pointer Dereference in radareorg/radare2

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Valid

Reported on Feb 20th 2022

## Description

NULL pointer dereference in bin\_symbols.c

## Environment

Distributor ID: Ubuntu

Description: Ubuntu 20.04 LTS

Release: 20.04

Codename: focal

radare2 5.6.3 27472 @ linux-x86-64 git.5.6.2

commit: d24dbb9fbb0b398a6a739847008ccef3ea7e687c

## POC

```
radare2 -AA -qq ./poc
```

poc

## ASAN

```
=====
==2968491==ERROR: AddressSanitizer: SEGV on unknown address 0x000000000000
==2968491==The signal is caused by a READ memory access.
==2968491==Hint: address points to the zero page.
#0 0x7fe53d2ad411 in symbols /home/ubuntu/fuzz/radare2/1
#1 0x7fe53cd844ec in r_bin_object_set_items /home/ubuntu/
#2 0x7fe53cd87d87 in r_bin_object_new /home/ubuntu/fuzz/radare2/libr/bi
```

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```
#3 0x7fe53cd78db0 in r_bin_file_new_from_buffer /home/ubuntu/fuzz/radar
#4 0x7fe53cd33b67 in r_bin_open_buf /home/ubuntu/fuzz/radare2/libr/bin/
#5 0x7fe53cd35009 in r_bin_open_io /home/ubuntu/fuzz/radare2/libr/bin/t

#6 0x7fe53db772c8 in r_core_file_do_load_for_io_plugin /home/ubuntu/fuz
#7 0x7fe53db772c8 in r_core_bin_load /home/ubuntu/fuzz/radare2/libr/cor
#8 0x7fe53db772c8 in r_core_bin_load /home/ubuntu/fuzz/radare2/libr/cor
#9 0x7fe540c852ba in r_main_radare2 /home/ubuntu/fuzz/radare2/libr/mair
#10 0x7fe540a240b2 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.
#11 0x559b96c449fd in _start (/home/ubuntu/fuzz/radare2/binr/radare2/r
```

AddressSanitizer can not provide additional info.

SUMMARY: AddressSanitizer: SEGV /home/ubuntu/fuzz/radare2/libr/./libr/bin/
==2968491==ABORTING



## Impact

This vulnerability is capable of making the radare2 crash, thus affecting the availability of the system.

### CVE

CVE-2022-0712

(Published)

### Vulnerability Type

CWE-476: NULL Pointer Dereference

### Severity

Medium (5.9)

### Visibility

Public

### Status

Fixed

### Found by



cnitlrt

@cnitlrt

master ▼

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Fixed by



**pancake**

@trufae

**maintainer**

This report was seen 485 times.

We are processing your report and will contact the **radareorg/radare2** team within 24 hours.  
9 months ago

**cnitlrt** modified the report 9 months ago

**cnitlrt** modified the report 9 months ago

We have contacted a member of the **radareorg/radare2** team and are waiting to hear back  
9 months ago

**pancake** validated this vulnerability 9 months ago

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

The fix bounty is now up for grabs

**pancake** marked this as fixed in **5.6.4** with commit **515e59** 9 months ago

**pancake** has been awarded the fix bounty ✓

This vulnerability will not receive a CVE ✗

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