Bug 3392707 - heap-use-after-free in saa_wbytes nasmlib/saa.c:132

Status: CLOSED FIXED

Alias: None

Product: NASM

Component: Assembler (show other bugs)

Version: 2.15.xx Hardware: All All

Importance: Medium normal Assignee: nobody

URL:

ends on: Blocks:

Modified: 2020-07-30 17:08 PDT (<u>History</u>) CC List: 5 users (show) Obtained from: Build from source archive using configure

Reported: 2020-07-28 04:01 PDT by Suhwan

Attachments poc (301 bytes, text/plain) Details Add an attachment (proposed patch, testcase, etc.)

You need to $\underline{\log in}$ before you can comment on or make changes to this bug.

Suhwan 2020-07-28 04:01:17 PDT

Description

Created attachment 411796 [details]

If found a heap-use-after-free in saa_wbytes nasmlib/saa.c:132 It is triggered in nasm version 2.15rc10.

Please run following command `nasm -f win64 -o tmp.o \$PoC`

0x6060000098f0 is located 48 bytes inside of 49-byte region [0x6060000098c0,0x6060000098f1) freed by thread T0 here: #10 0x7f61c68la78 in __interceptor_free (/usr/lib/x86_64-linux-gnu/libasan.so.4+0xde7a8)

#1 0x55ca40d90c69 in parse_eops asm/parser.c:464

previously allocated by thread T0 here:
#0 0x7f6lc68laf30 in realloc (/usr/lib/x86_64-linux-gnu/libasan.so.4+0xdef30)
#1 0x55ca40ccca50 in nasm_realloc nasmlib/alloc.c:101

SUMMARY: AddressSanitizer: heap-use-after-free (/usr/lib/x86 64-linuxgnu/libasan.so.4+0x79732)

f5 f8 f9 f6 f7 fc

Global redzone: Global init order: Poisoned by user: Container overflow: Container overflow: Array cookie: Intra object redzone: ASan internal: Left alloca redzone: Right alloca redzone: =32342==ABORTING

Suhwan 2020-07-28 23:16:47 PDT

Comment 1

This is found by Agency for Defense Development (ADD) in South Korea.

H. Peter Anvin 2020-07-30 15:49:58 PDT

Comment 2

The original problem fixed in checkin 6ac6ac57e3d0lea8ed4ea47706eb724b59176461, but this PoC triggers another sanitizer violation when using -gcv8, so leave open for

Secondary bug fixed in checkin 78df8828a0a5d8e2d8ff3dced562bf1778ce2e6c.

Format For Printing - XML - Clone This Bug - Top of page