Bug 3392712 - double-free in pp_tokline asm/preproc.c:6750

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:

Duplicates (2): 3392670 3392671 (view as bug list)

Depends on:

Blocks:

Attachments poc (1.00 KB, text/x-matlab) Details

Add an attachment (proposed patch, testcase, etc.)

You need to log in before you can comment on or make changes to this bug.

Suhwan 2020-08-03 22:11:08 PDT Description

Created attachment 411800 [details]

03 22:11 PDT, Suhwan

Hi, we found a double-free in pp_tokline asm/preproc.c:6750 version : nasm-2.15.04rc3

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

==32583==ERROR: AddressSanitizer: attempting double-free on 0x60c0001d7700 in ==32983=ERROR: AddressSanttizer: attempting double-tree on Ox60CUU thread TO: #10 0x7fb5dfbf9788 in __interceptor_free (/usr/lib/x86_64-linux-guu/libasan.so.4+0xde7a8) #1 0x556ecf725656 in nasm free nasmlib/alloc.c:108 #2 0x556ecf7676870 in pp_tokline asm/preproc.c:6750 #3 0x556ecf76a802 in pp_getline asm/preproc.c:6922 #4 0x556ecf71a502 in assemble_file asm/nasm.c:714

#6 0x7fb5df74bb96 in __libc_start_main (/lib/x86_64-linux-

#0 VX/LDGUL/4DD90 IN _IIDC_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x2lb96)
#7 0x556ecf7lb809 in _start _(/mnt/had2/suhwan/add project/final/FINAL_TEST_ZONE/program/nasm-2.15.04rc3/install_dir/bin/nasm+0x111809)

2.15.04cs/.nstart_min/minsmrourite(s)

0x60c0001d7700 is located 0 bytes inside of 128-byte region
[0x60c0001d7700,0x60c0001d7780)

freed by thread T0 here:

#0 0x7fb5dfbf97a8 in __interceptor_free (/usr/lib/x86_64-linux-gnu/libasan.so.4+0xde7a8)

#1 0x555cefr725656 in nasm_free nasmlib/alloc.c:108

#2 0x555cefr789767 in p_tokline asm/preproc.c:6750

#3 0x556cef789767 in p_tokline asm/preproc.c:6922

#4 0x556cef7231dc in assemble file asm/nasm.c:1718

#5 0x7fb5df74bb96 in _minsmrour.c:714

#6 0x7fb5df74bb96 in _libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x2lb96)

previously allocated by thread TO here:
#0 0x7fb5dfbf9d28 in _interceptor_calloc (/usr/lib/x86_64-linux-gnu/libasan.so.440xded28)
#1 0x556ecf75572 in nasm_calloc nasmlib/alloc.c:72
#2 0x556ecf75541d6 in count_mmac_params asm/preproc.c:6044
#3 0x556ecf765408 in is mmacro asm/preproc.c:60404
#4 0x556ecf76722b in expand_mmacro asm/preproc.c:6284
#5 0x556ecf76722b in expand_mmacro asm/preproc.c:6910
#6 0x556ecf76a802 in pp_getline asm/preproc.c:6922
#7 0x556ecf731dc in assemble file asm/preproc.c:6922
#8 0x556ecf731dc in assemble file asm/nasm.c:7118
#8 0x556ecf7316567 in main asm/nasm.c:714
#9 0x7fb5df74bb96 in _libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x2lb96)

SUMMARY: AddressSanitizer: double-free (/usr/lib/x86_64-linux-gnu/libasan.so.4+0xde7a8) in __interceptor_free ==32583==ABORTING

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

Cyrill Gorcunov 2020-08-17 11:32:47 PDT

Comment 1

Fixed in 8806c3ca007b84accac2ldd88b900fb03614ceb7. Thanks for report! Actually we've a bunch of memory leaks but this is less destructive than double free.

Still we need more precise look into our preproc code, sigh...

Cyrill Gorcunov 2020-08-18 06:44:47 PDT

Comment 2

*** Dug 3393671 has been marked as a duplicate of this bug. ***

Cyrill Gorcunov 2020-08-18 06:45:32 PDT

Comment 3

2302670 has been marked as a duplicate of this bug. ***

Reported: 2020-08-03 22:11 PDT by Suhwan Modified: 2020-08-18 06:45 PDT (<u>History</u>)

Obtained from: Build from source archive using configure

CC List: 5 users (show)