

Bug 3392568 - buffer-overflow bug

Status: OPEN

Alias: None

Product: NASM

Component: Assembler (show other bugs)

Version: 2.15.xx

Hardware: All Linux

Importance: Medium normal

Assignee: nobody

URL:

Depends on:

Blocks:

Reported: 2019-04-23 07:00 PDT by Tao Iv

Modified: 2019-04-23 07:00 PDT (History)

CC List: 4 users (show)

Obtained from: Built from git using configure

Attachments	
<a href="#">attached poc</a> (5.83 KB, application/octet-stream) 2019-04-23 07:00 PDT, Tao Iv	<a href="#">Details</a>
<a href="#">Add an attachment</a> (proposed patch, testcase, etc.)	

Note  
You need to [log in](#) before you can comment on or make changes to this bug.

Tao Iv 2019-04-23 07:00:04 PDT [Description](#)

Created [attachment 411718](#) ([details](#))  
attached poc

Hi, I found a buffer-overflow at function crc64i crc64.c:185(not CVE-2019-7147 function crc64ib at crc64.c:207).

The following is the output from ASAN.

```
$ ~/vuln-fuzz/program/nasm/asan-install/bin/nasm -felf64 unique-crash/id\:000001\,sig\:06\,src\:011515\,op\:havoc\,rep\:128
=====
==69295==ERROR: AddressSanitizer: global-buffer-overflow on address 0x0000005155b0
at pc 0x0000004a8079 bp 0x7ffde8ac8c60 sp 0x7ffde8ac8c50
READ of size 8 at 0x0000005155b0 thread T0
#0 0x4a8078 in crc64i nasmlib/crc64.c:185
#1 0x44c7fb in pp_token_hash asm/pptok.c:499
#2 0x436bd0 in do_directive asm/preproc.c:2218
#3 0x449699 in pp_getline asm/preproc.c:5140
#4 0x4088a8 in assemble_file asm/nasm.c:1549
#5 0x404933 in main asm/nasm.c:609
#6 0x7f8ed6c3e82f in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x2082f)
#7 0x4022f8 in _start (/home/lt/vuln-fuzz/program/nasm/asan-install/bin/nasm+0x4022f8)

0x0000005155b1 is located 0 bytes to the right of global variable '*.LC8' defined
in 'output/codeview.c' (0x515580) of size 49
 '*.LC8' is ascii string 'codeview: relocation for unregistered symbol: %s'
0x0000005155b0 is located 48 bytes to the left of global variable '*.LC9' defined
in 'output/codeview.c' (0x5155e0) of size 31
 '*.LC9' is ascii string 'cv8_state.source_files != NULL'
SUMMARY: AddressSanitizer: global-buffer-overflow nasmlib/crc64.c:185 crc64i
Shadow bytes around the buggy address:
 0x00008009aa60: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 f9
 0x00008009aa70: f9 f9 f9 f9 00 03 f9 f9 f9 f9 f9 04 f9 f9 f9
 0x00008009aa80: f9 f9 f9 f9 00 01 f9 f9 f9 f9 f9 00 01 f9 f9
 0x00008009aa90: f9 f9 f9 f9 06 f9 f9 f9 f9 f9 f9 00 00 00 00
 0x00008009aaa0: 00 00 00 00 00 00 00 00 06 f9 f9 f9 00 00 00
=>0x00008009aab0: 00 00 00 00 00 00[01]f9 f9 f9 f9 00 00 00 07
 0x00008009aac0: f9 f9 f9 f9 00 00 02 f9 f9 f9 f9 00 00 00 f9
 0x00008009aad0: f9 f9 f9 f9 00 00 00 00 01 f9 f9 f9 f9 f9 f9
 0x00008009aae0: 00 00 06 f9 f9 f9 f9 00 00 00 00 01 f9 f9 f9
 0x00008009aaf0: f9 f9 f9 f9 00 00 04 f9 f9 f9 f9 00 00 00 04
 0x00008009ab00: f9 f9 f9 f9 00 00 06 f9 f9 f9 f9 00 00 00 02
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
Heap right redzone: fb
Freed heap region: fd
Stack left redzone: f1
Stack mid redzone: f2
Stack right redzone: f3
Stack partial redzone: f4
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
==69295==ABORTING
```