Status: RESOLVED FIXED

Alias: None

Product: binutils

Component: binutils (show other bugs)

Version: 2.35

Importance: P2 normal
Target Milestone: 2.35
Assignee: Alan Modra

URL: Keywords:

Depends on:

Reported: 2020-04-16 21:01 UTC by Manh-Dung Nguyen

Modified: 2020-04-17 02:00 UTC (<u>History</u>)

CC List: 1 user (show)

See Also: Host: Target: Build:

Last reconfirmed: 2020-04-17 00:00:00

Attachments
PoC (17.89 (R. application/y.executable)
Details

- Note -

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

```
Manh-Dung Nguyen 2020-04-16 21:01:46 UTC

Created attachment 12473 [details]
POC

Hi,

A null pointer dereference was discovered in nm-new (the latest commit 1619720) in bfd elf get symbol_version_string(), that can cause a denial of service via a crafted file.

To reproduce: nm-new -D POC

ASAN says:
==23854==ERROR: AddressSanitizer: SEGV on unknown address 0x000000000000 (pc 0xf2eefclaf04e bp 0xfffc62le9b10 sp 0xfffc62le92a0 T0)
#0 0xf2eefclaf04d (/usr/lib/x86 64-linux-gnu/libsan.so.2+0x4704d)
#1 0x49ed5c in bfd elf get symbol version string ././/bfd/elf.c:1914
#2 0x403afe in print symmane ./../binutils/nm.c:420
#3 0x408c37 in print symmol info bsd ./../binutils/nm.c:1623
#4 0x406187 in print symbol ./../binutils/nm.c:102
#5 0x407127 in print_symbols ./../binutils/nm.c:1102
#5 0x407127 in print_symbols ./../binutils/nm.c:1226
#7 0x4081c5 in display file ./../binutils/nm.c:1239
#8 0x409c6a in main ./../binutils/nm.c:1874
#9 0xf2efbbba82f in _libc start main (/lib/x86_64-linux-gnu/libc.so.6+0x2082f)
#10 0x407ce8 in _start (/home/dungnguyen/PoCs/binutils_f717994/nm-new-
1619720+0x402ce8)

Thanks,
Manh Dung
```


Alan Modra 2020-04-17 02:00:31 UTC

Comment 2

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