New issue Jump to bottom

## A NULL pointer dereference in the function expand\_mmac\_params() modules/preprocs/nasm/nasm-pp.c:3861 #171

Open Clingto opened this issue on May 19, 2021 · 1 comment

Chingle opened this issue on May 15, 2021 Technicin

```
Clingto commented on May 19, 2021
  System info:
 Ubuntu 16.04.6 LTS, X64, gcc 5.4.0, yasm (latest master 009450c )
I think it is probably a similar issue as #151
 Compile Command:
          $ ./autogen.sh
          CC=gcc CXX=g++ CFLAGS="-fsanitize=address -fno-omit-frame-pointer -g" CXXFLAGS="-fsanitize=address -fno-omit-frame-pointer -g" ./configure --prefix=$PWD/build --disable-shared
          make install
  Run Command:
          $ yasm $POC
 https://github.com/Clingto/POC/blob/master/MSA/yasm/yasm-3857-expand\_mmac\_params-null-pointer-derefully and the complex of t
           yasm: file name already has no extension: output will be in `yasm.out'
            ASAN:SIGSEGV
           ==15506==ERROR: AddressSanitizer: SEGV on unknown address 0x000000000001 (pc 0x7fc6c3caf512 bp 0x7ffceebde200 sp 0x7ffceebde060 T0)
                          #0 0x7fc6c3caf511 in expand_mmac_params test/yasm-uaf/SRC_asan/modules/preprocs/nasm/nasm-pp.c:3861 #1 0x7fc6c3cc08e8 in pp_getline test/yasm-uaf/SRC_asan/modules/preprocs/nasm/nasm-pp.c:5078
                             \verb|#2 0x7fc6c3ca9d46 in nasm_preproc_get_line | test/yasm-uaf/SRC_asan/modules/preprocs/nasm/nasm-preproc.c: 198 | test/yasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-preproc.c: 198 | test/yasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf/SRC_asan/modules/preprocs/nasm-uaf
                          #3 0x7fc6c3c8f36b in nasm_parser_do_parse test/yasm-uaf/SRC_asan/modules/parsers/nasm/nasm-parser.c:66
#5 0x7fc6c3c8f36b in nasm_parser_do_parse test/yasm-uaf/SRC_asan/modules/parsers/nasm/nasm-parser.c:66
                          #6 0x402c84 in do_assemble test/yasm-uaf/SRC_asan/frontends/yasm/yasm.c:521 #7 0x402c84 in main test/yasm-uaf/SRC_asan/frontends/yasm/yasm.c:753
                            #8 0x7fc6c6db382f in _libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x2082f)
#9 0x403ee8 in _start ( test/yasm-uaf/bin_asan/bin/yasm+0x403ee8)
          AddressSanitizer can not provide additional info.
SUMMARY: AddressSanitizer: SEGV test/yasm-uaf/SRC_asan/modules/preprocs/nasm/nasm-pp.c:3861 expand_mmac_params
            ==15506==ABORTING
  P 1
```

natalie13m mentioned this issue on Nov 1, 2021

Stack overflow in parse\_expr6(5,4,3,2,1) modules/parsers/nasm/nasm-parse.c #152

⊙ Open

Direct leak of 4100 byte(s) in 4 object(s) allocated from: #0 0x560053dd0207 in malloc (/buildarea/eng3/yasm/yasm/build/bin/yasm+0x13b207) #1 0x560053e52d14 in def\_xmalloc libyasm/xmalloc.c:69 #2 0x560053e2fd18 in yasm\_error\_set\_va libyasm/errwarn.c:277 #3 0x560053e2fe7e in yasm\_error\_set libyasm/errwarn.c:289 #4 0x560053e80465 in expect\_ modules/parsers/nasm/nasm-parse.c:208 #5 0x560053e84508 in parse\_instr modules/parsers/nasm/nasm-parse.c:769 #6 0x560053e82f8c in parse\_exp modules/parsers/nasm/nasm-parse.c:567 #7 0x560053e80e54 in parse\_line modules/parsers/nasm/nasm-parse.c:290 #8 0x560053e80729 in nasm\_parser\_parse modules/parsers/nasm/nasm-parse.c:232 #9 0x560053e7f7a0 in nasm\_do\_parse modules/parsers/nasm/nasm-parser.c:66 #10 0x560053e7f93d in nasm\_parser\_do\_parse modules/parsers/nasm/nasm-parser.c:83 #11 0x560053e176bc in do\_assemble frontends/yasm/yasm.c:522 #12 0x560053e184e4 in main frontends/yasm/yasm.c:754 #13 0x7f7bfca7dd8f in \_\_libc\_start\_call\_main ../sysdeps/nptl/libc\_start\_call\_main.h:58 Direct leak of 4100 byte(s) in 4 object(s) allocated from: #0 0x560053dd0207 in malloc (/buildarea/eng3/yasm/yasm/build/bin/yasm+0x13b207) #1 0x560053e52d14 in def\_xmalloc libyasm/xmalloc.c:69 #2 0x560053e2fd18 in yasm\_error\_set\_va libyasm/errwarn.c:277 #3 0x560053e2fe7e in yasm\_error\_set libyasm/errwarn.c:289 #4 0x560053e80465 in expect\_ modules/parsers/nasm/nasm-parse.c:208 #5 0x560053e84508 in parse\_instr modules/parsers/nasm/nasm-parse.c:769 #6 0x560053e82f8c in parse\_exp modules/parsers/nasm/nasm-parse.c:567 #7 0x560053e825bc in parse\_line modules/parsers/nasm/nasm-parse.c:455 #8 0x560053e80729 in nasm\_parser\_parse modules/parsers/nasm/nasm-parse.c:232 #9 0x560053e7f7a0 in nasm\_do\_parse modules/parsers/nasm/nasm-parser.c:66 #10 0x560053e7f93d in nasm\_parser\_do\_parse modules/parsers/nasm/nasm-parser.c:83 #11 0x560053e176bc in do\_assemble frontends/yasm/yasm.c:522 #12 0x560053e184e4 in main frontends/yasm/yasm.c:754 #13 0x7f7bfca7dd8f in \_\_libc\_start\_call\_main ../sysdeps/nptl/libc\_start\_call\_main.h:58 SUMMARY: AddressSanitizer: 8200 byte(s) leaked in 8 allocation(s). This is not same error as reported in this bug I am able to spend some time to resolve some Yasm CVEs but I would need some guidance . I have worked on C code for four years and have used Valgrind, but never used Address Sanitzer Also I have more experienced developers to consult on this issue. (<u>i</u> 1)



2 participants

