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AddressSanitizer: heap-use-after-free in pp_getline() modules/preprocs/nasm/nasm-pp.c:5024 #163

⊙ Open Clingto opened this issue on May 19, 2021 · 0 comments

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```
Clingto commented on May 19, 2021
System info:
Ubuntu 16.04.6 LTS, X64, gcc 5.4.0, yasm (latest master 009450c )
Compile Command:
   $ ./autogen.sh
   make distclean
   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 -j
make install
Run Command
   $ yasm $POC
https://github.com/Clingto/POC/blob/master/MSA/yasm/yasm-5020-pp_getline-UAF
ASAN info
   yasm: file name already has no extension: output will be in `yasm.out'
    ==18582==ERROR: AddressSanitizer: heap-use-after-free on address 0x60e00000ccb8 at pc 0x7f24ad5c6232 bp 0x7ffdbe2b8fb0 sp 0x7ffdbe2b8fa0
   READ of size 4 at 0x60e00000ccb8 thread T0
        #0 0x7f24ad5c6231 in pp_getline test/yasm-uaf/SRC_asan/modules/preprocs/nasm/nasm-pp.c:5024
        ## 0x7724ads06221 in pp_getline test/yasm-uaf7skc_asan/mountes/preprocs/nasm/nasm-pp.c:3024
#10 xx724ads9d46 in nasm_preproc_get_line test/yasm-uaf5kC_asan/mountes/preprocs/nasm/nasm-preproc.c:198
#2 0x7724ad59b2ac in nasm_parser_parse test/yasm-uaf/SRC_asan/mountes/parsers/nasm/nasm-parse.c:218
#3 0x7724ad58f36b in nasm_do_parse test/yasm-uaf5kC_asan/mountes/parsers/nasm/nasm-parser.c:66
#4 0x7724ad58f36b in nasm_parser_do_parse test/yasm-uaf5kC_asan/mountes/parsers/nasm/nasm-parser.c:83
#5 0x402c84 in do_assemble test/yasm-uaf5kC_asan/frontends/yasm/yasm.c:521
        #6 0x402c84 in main test/yasm-uaf/SRC_asan/frontends/yasm/yasm.c:753
#7 0x7f24b06e082f in _libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x2082f)
         #8 0x403ee8 in _start ( test/yasm-uaf/bin_asan/bin/yasm+0x403ee8)
   0x60e00000ccb8 is located 152 bytes inside of 160-byte region [0x60e00000cc20,0x60e00000ccc0)
        #0 0x7f24b0f9a2ca in __interceptor_free (/usr/lib/x86_64-linux-gnu/libasan.so.2+0x982ca) #1 0x7f24ad5bfd48 in pp_getline test/yasm-uaf/SRC_asan/modules/preprocs/nasm/nasm-pp.c:5009
        #2 @x7f24ad5a9d46 in nasm_preproc_get_line test/yasm-uaf/SRC_asan/modules/preprocs/nasm/nasm-preproc.c:198
#3 @x7f24ad59b2ac in nasm_parser_parse test/yasm-uaf/SRC_asan/modules/parsers/nasm/nasm-parse.c:218
#4 @x7f24ad58f36b in nasm_do_parse test/yasm-uaf/SRC_asan/modules/parsers/nasm/nasm-parser.c:66
        #5 0x7f24ad58f36b in nasm_parser_do_parse test/yasm-uaf/SRC_asan/modules/parsers/nasm/nasm-parser.c:83 #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 0x7f24b06e082f in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x2082f)
   previously allocated by thread T0 here:
         #0 0x7f24b0f9a602 in malloc (/usr/lib/x86_64-linux-gnu/libasan.so.2+0x98602)
         #1 0x7f24b0ceb769 in def_xmalloc test/yasm-uaf/SRC_asan/libyasm/xmalloc.c:69
        #2 0x7f24ad5b500b in do_directive test/yasm-uaf/SRC_asan/modules/preprocs/nasm/nasm-pp.c:3211
#3 0x7f24ad5c0333 in pp_getline test/yasm-uaf/SRC_asan/modules/preprocs/nasm/nasm-pp.c:5083
        #4 0x7f24ad5s9d46 in nasm_preproc_get_line test/yasm-uaf/SRC_asan/modules/preprocs/nasm/nasm-preproc.c:198
#5 0x7f24ad59b2ac in nasm_parser_parse test/yasm-uaf/SRC_asan/modules/parsers/nasm/nasm-parsec.c:218
#6 0x7f24ad58f36b in nasm_do_parse test/yasm-uaf/SRC_asan/modules/parsers/nasm/nasm-parsec.c:66
        #7 0x7f24ad58f36b in nasm_parser_do_parse test/yasm-uaf/SRC_asan/modules/parsers/nasm/nasm-parser.c:83 #8 0x402c84 in do_assemble test/yasm-uaf/SRC_asan/frontends/yasm/yasm.c:521
         #9 0x402c84 in main test/vasm-uaf/SRC asan/frontends/vasm/vasm.c:753
         #10 0x7f24b06e082f in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x2082f)
   SUMMARY: AddressSanitizer: heap-use-after-free test/yasm-uaf/SRC_asan/modules/preprocs/nasm/nasm-pp.c:5024 pp_getline
   Shadow byte legend (one shadow byte represents 8 application bytes):
      Addressable:
     Partially addressable: 01 02 03 04 05 06 07
Heap left redzone: fa
      Heap right redzone:
Freed heap region:
      Stack left redzone:
      Stack mid redzone:
      Stack right redzone:
      Stack partial redzone:
Stack after return:
      Stack use after scope:
      Global redzone:
      Global init order:
      Poisoned by user:
      Container overflow:
      Array cookie:
```

Intra object redzone: bb
ASan internal: fe
==18582==ABORTING



🔀 🁩 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

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No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

1 participant

