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AddressSanitizer: heap-use-after-free in error() modules/preprocs/nasm/nasm-pp.c:4830 #162

New issue

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

```
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-4826-error-UAF
ASAN info:
   yasm: file name already has no extension: output will be in `yasm.out'
    ==17967==ERROR: AddressSanitizer: heap-use-after-free on address 0x60e00000cd08 at pc 0x7f820a4aa94b bp 0x7ffd4c279450 sp 0x7ffd4c279440
   READ of size 8 at 0x60e00000cd08 thread T0
         #0 0x7f820a4aa94a in error test/yasm-uaf/SRC_asan/modules/preprocs/nasm/nasm-pp.c:4830
         #1 0x7f820a4aceaf in tokenise test/yasm-uaf/SRC_asan/modules/preprocs/nasm/nasm-pp.c:1352
#2 0x7f820a4c0300 in pp_getline test/yasm-uaf/SRC_asan/modules/preprocs/nasm/nasm-pp.c:5037
        #3 0x7f820a4a9046 in nasm_preproc_get_line test/yasm-uaf/SRC_asan/modules/preprocs/nasm/nasm-preproc.c:198
#4 0x7f820a49b2ac in nasm_parser_parse test/yasm-uaf/SRC_asan/modules/parsers/nasm-parse.c:218
        #5 0x7f820a48f36b in nasm_do_parse test/yasm-uaf/SRC_asan/modules/parsers/nasm/nasm-parser.c:66
#6 0x7f820a48f36b in nasm_parser_do_parse test/yasm-uaf/SRC_asan/modules/parsers/nasm/nasm-parser.c:83
#7 0x402c84 in do_assemble test/yasm-uaf/SRC_asan/frontends/yasm/yasm.c:521
         #8 0x402C84 in main test/yasm-uaf/SRC_asan/frontends/yasm/yasm.cr33
#9 0x7f820d6ae82f in _libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x2082f)
#10 0x403ee8 in _start ( test/yasm-uaf/bin_asan/bin/yasm+0x403ee8)
    0x60e0000cd08 is located 8 bytes inside of 160-byte region [0x60e00000cd00,0x60e00000cda0)
         #0 0x7f820df682ca in __interceptor_free (/usr/lib/x86_64-linux-gnu/libasan.so.2+0x982ca)
         #1 0x7f820a4bfd48 in pp_getline test/yasm-uaf/SRC_asan/modules/preprocs/nasm/nasm-pp.c:5009
         #2 0x7f820a4a9d46 in nasm_preproc_get_line test/yasm-uaf/SRC_asan/modules/preprocs/nasm/nasm-preproc.c:198
#3 0x7f820a49b2ac in nasm_parser_parse test/yasm-uaf/SRC_asan/modules/parsers/nasm/nasm-parse.c:218
#4 0x7f820a48f36b in nasm_do_parse test/yasm-uaf/SRC_asan/modules/parsers/nasm/nasm-parser.c:66
         #5 0x7f820a48f36b 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 0x7f820d6ae82f in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x2082f)
        #0 0x7f820df68600 in malloc (/usr/lib/x86_64-linux-gnu/libasan.so.2+0x98602)
#1 0x7f820dcb9769 in def_xmalloc test/yasm-uaf/SRC_asan/libyasm/xmalloc.c:69
#2 0x7f820a4b500b in do_directive test/yasm-uaf/SRC_asan/modules/preprocs/nasm/nasm-pp.c:3211
         #3 0x7f820a4c0333 in pp_getline test/yasm-uaf/SRC_asan/modules/preprocs/nasm/nasm-preproc.c:1983
#4 0x7f820a4a9d46 in nasm_preproc_get_line test/yasm-uaf/SRC_asan/modules/preprocs/nasm/nasm-preproc.c:198
         #5 0x7f820a49b2ac in nasm_parser_parse test/yasm-uaf/SRC_asan/modules/parsers/nasm/nasm-parse.c:218 #6 0x7f820a48f36b in nasm_do_parse test/yasm-uaf/SRC_asan/modules/parsers/nasm/nasm-parser.c:66
        #7 0x7f820a48f36b 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/yasm-uaf/SRC_asan/frontends/yasm/yasm.c:753
         #10 0x7f820d6ae82f 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:4830 error
   0x0c1c7fff9990: fd fd fd fd fd fd fd fd fa fa fa fa fa fa fa fa
    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 right redzone:
      Stack partial redzone:
      Stack after return:
      Stack use after scope:
Global redzone:
      Global init order:
      Poisoned by user:
```

```
Container overflow: fc
Array cookie: ac
Intra object redzone: bb
ASan internal: fe
==17967==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

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

1 participant

