

New issue

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# Use of uninitialized value in the md\_analyze\_line() function #155

Closed bsdb0y opened this issue on Mar 27, 2021 · 2 comments

Labels bug

bsdb0y commented on Mar 27, 2021

Hi,

While fuzzing md4c 0.4.7 with AFL++ and MSAN, I found out that the md\_analyze\_line() function may use uninitialized memory.

Attaching a reproducer (gzipped so GitHub accepts it): [input01.md.gz](#)

Issue can be reproduced by running:

```
md2html input01.md
```

```
==2793660==WARNING: MemorySanitizer: use-of-uninitialized-value
#0 0x7f821124c622 in md_analyze_line /home/bsdb0y/md/md4c-release-0.4.7/src/md4c.c:5985:12
#1 0x7f821122ee27 in md_process_doc /home/bsdb0y/md/md4c-release-0.4.7/src/md4c.c:6254:9
#2 0x7f821122dca5 in md_parse /home/bsdb0y/md/md4c-release-0.4.7/src/md4c.c:6332:11
#3 0x7f82112fd66b in md_html /home/bsdb0y/md/md4c-release-0.4.7/src/md4c-html.c:571:12
#4 0x4989fb in process_file /home/bsdb0y/md/md4c-release-0.4.7/md2html/md2html.c:144:11
#5 0x4989fb in main /home/bsdb0y/md/md4c-release-0.4.7/md2html/md2html.c:368:11
#6 0x7f8210e580b2 in __libc_start_main /build/glibc-eX1tMB/glibc-2.31/csu/../csu/libc-start.c:308:16
#7 0x41c29d in _start (/home/bsdb0y/md/md4c-release-0.4.7/build/md2html/md2html+0x41c29d)

SUMMARY: MemorySanitizer: use-of-uninitialized-value /home/bsdb0y/md/md4c-release-0.4.7/src/md4c.c:5985:12 in md_analyze_line
```

with memory origin tracking option -fsanitize-memory-track-origins

```
==2793563==WARNING: MemorySanitizer: use-of-uninitialized-value
#0 0x7ffb9423f84f in md_analyze_line /home/bsdb0y/md/md4c-release-0.4.7/src/md4c.c:5985:12
#1 0x7ffb9421a49b in md_process_doc /home/bsdb0y/md/md4c-release-0.4.7/src/md4c.c:6254:9
#2 0x7ffb94218d8f in md_parse /home/bsdb0y/md/md4c-release-0.4.7/src/md4c.c:6332:11
#3 0x7ffb9430c7c4 in md_html /home/bsdb0y/md/md4c-release-0.4.7/src/md4c-html.c:571:12
#4 0x49972f in process_file /home/bsdb0y/md/md4c-release-0.4.7/md2html/md2html.c:144:11
#5 0x49972f in main /home/bsdb0y/md/md4c-release-0.4.7/md2html/md2html.c:368:11
#6 0x7ffb93e430b2 in __libc_start_main /build/glibc-eX1tMB/glibc-2.31/csu/../csu/libc-start.c:308:16
#7 0x41c29d in _start (/home/bsdb0y/md/md4c-release-0.4.7/build/md2html/md2html+0x41c29d)

Uninitialized value was created by a heap allocation
#0 0x42847d in malloc (/home/bsdb0y/md/md4c-release-0.4.7/build/md2html/md2html+0x42847d)
#1 0x49ab35 in membuf_init /home/bsdb0y/md/md4c-release-0.4.7/md2html/md2html.c:69:17

SUMMARY: MemorySanitizer: use-of-uninitialized-value /home/bsdb0y/md/md4c-release-0.4.7/src/md4c.c:5985:12 in md_analyze_line
```

mity closed this as completed in [4fc808d](#) on Mar 29, 2021

mity commented on Mar 29, 2021

Owner

Thanks for reporting, should be now fixed.

mity added the bug label on Mar 29, 2021

carnil commented on Apr 29, 2021

The issue was apparently assigned [CVE-2021-30027](#).

Assignees  
No one assigned

Labels  
bug

Projects  
None yet

Milestone  
No milestone

Development  
No branches or pull requests

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3 participants

