New issue Jump to bottom

AddressSanitizer: SEGV on unknown address 0x00000000014 #415

⊙ Closed chibataiki opened this issue on Jan 26, 2021 ⋅ 7 comments

Assignees

Labels

bug priority-high

Milestone

\$\times\$ Stable

chibataiki commented on Jan 26, 2021 • edited 🕶 Hello, While fuzzing htmldoc, I found SEGV on unknown address htmldoc Version 1.9.12 git [master 6898d0a] OS: Ubuntu 20.04.1 LTS x86_64 kernel: 5.4.0-53-generic compiler: clang version 10.0.0-4ubuntu1 reproduced: htmldoc -f demo.pdf poc4.html poc(zipped for update): poc4.zip ==38160==ERROR: AddressSanitizer: SEGV on unknown address 0x000000000014 (pc 0x7fd7b98ce259 bp 0x000000000001 sp 0x7ffcf67f15c0 T0) ==38160==The signal is caused by a WRITE memory access. ==38160==Hint: address points to the zero page. #1 0x7fd7b98ce258 (/usr/lib/x86_64-linux-gnu/libjpeg.so.8+0x21258)
#1 0x7fd7b98cbf1e (/usr/lib/x86_64-linux-gnu/libjpeg.so.8+0x1ef1e) #2 0x7fd7b98c3f2e in jpeg_consume_input (/usr/lib/x86_64-linux-gnu/libjpeg.so.8+0x6f2e) #3 0x7fd7b98c4lb1 in jpeg_read_header (/usr/lib/x86_64-linux-gnu/libjpeg.so.8+0x6f2e) #4 0x5c06dd in image_load_jpeg(image_t*, _IO_FILE*, int, int) /home//htmldoc_sani/htmldoc/image.cxx:1357:3 #5 0x5c06dd in image_load /home//htmldoc_sani/htmldoc/image.cxx:824 #6 0x5a8f6f in compute_size(tree_str*) /home//htmldoc_sani/htmldoc/htmllib.cxx:3239:11 #7 0x5aid63 in htmlReadf3le /home//htmldoc_sani/htmldoc/htmllib.cxx:981:11
#8 0x5aeb98 in read_file(char const*, tree_str**, char const*) /home//htmldoc_sani/htmldoc.cxx:2492:9 #9 0x539c3 in main /home//htmldoc_sani/htmldoc.cxx:1177:7
#10 0x7fd7b93610b2 in _libc_start_main /build/glibc-eXitMB/glibc-2.31/csu/../csu/libc-start.c:308:16
#11 0x41f8bd in _start (/home//htmldoc_sani/htmldoc/htmldoc+0x41f8bd) AddressSanitizer can not provide additional info. SUMMARY: AddressSanitizer: SEGV (/usr/lib/x86_64-linux-gnu/libjpeg.so.8+0x21258) ==38160==ABORTING [#0] $0x7ffff7ef5259 \rightarrow mov DWORD PTR [rbx+0x14], r14d$ [#1] $0x7ffff7ef2f1f \rightarrow mov r12d, eax$ [#2] 0x7fffffeeaf2f → jpeg_consume_input() [#3] 0x7fffffeeb1b2 → jpeg_read_header() [#4] 0x5c06de → image_load_jpeg(img=0x619000000080, fp=<optimized out>, gray=<optimized out>, load_data=0x0)
[#5] 0x5c06de → image_load(filenam=0x603000000190 "/var/tmp/041944.000001.tmp", gray=0x0, load_data=0x0)
[#6] 0x5a8f70 → compute_size(t=0x60800001c20) [#7] 0x531d64 → htmlReadfile(parent<optimized out>, fp=0x615000000300, base=0x7fffffffcbe0 "./pocs_htmldoc")
[#8] 0x53eb99 → read_file(filename=<optimized out>, document=0x7fffffffd180, path=<optimized out>)
[#9] 0x539ce4 → main(argc=0x4, argv=0x7ffffffdd38) reporter: chiba of topsec alphalab

A michaelrsweet self-assigned this on Jan 26, 2021

michaelrsweet commented on Apr 1, 2021

michaelrsweet added bug priority-high labels on Jan 26, 2021

richaelrsweet added this to the Stable milestone on Jan 26, 2021

michaelrsweet commented on Jan 26, 2021

Confirmed, investigating...

Owner

This crash is happening in libjpeg, so you need to provide the IJG a copy of the JPEG file so they can fix this.

I am also testing this against libjpeg-turbo, which will be in the next release of HTMLDOC as the embedded/local JPEG library...

