



SoX - Sound eXchange Bugs

Brought to you by: cbagwell, mansr, robs, uklauer

```
#349 div zero crash in wav.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3
 Status: open
                                                                                                                                                                                                                                       Labels: bug (6)
Updated: 2021-04-20 Created: 2021-04-20 Creator: <u>treebacker</u>
                                                                                                                                                                                                                                                                                                                                               Private: No
 There is a div zero bug in wav.c:967, functon startread.
 With crafted wav file, it crashes.
 Trigger command: ./src/.libs/sox bug1 -n noiseprof /dev/null
  ubuntu@VM-0-3-ubuntu:~/treebacker/fuzzwork/dataset/tprogram/sox-code/asan/sox-code$ ./src/.libs/s
                    4604==ERROR: AddressSanitizer: FPE on unknown address 0x7eff2bdec8ec (pc 0x7eff2bdec8ec bp 0x7eff2bdec8ec) in startread /home/ubuntu/treebacker/fuzzwork/dataset/tprogram/sox-code/ass="#1 0x7eff2bdec8ec" in open read /home/ubuntu/treebacker/fuzzwork/dataset/tprogram/sox-code/ass=#2 0x7eff2bcfb6ea in sox_open_read /home/ubuntu/treebacker/fuzzwork/dataset/tprogram/sox-code/ass=#3 0x5622260ab58b in main /home/ubuntu/treebacker/fuzzwork/dataset/tprogram/sox-code/asan/sox=#4 0x7eff2b314bf6 in _libc_start_main (/lib/x86_64-linux-gnu/libc.so.64v2lbf6)
#5 0x562226094339 in _start (/home/ubuntu/treebacker/fuzzwork/dataset/tprogram/sox-code/asan/sox=#4 0x7eff2b314bf6 in _libc_start_main (/lib/x86_64-linux-gnu/libc.so.64v2lbf6)
  AddressSanitizer can not provide additional info.
SUMMARY: AddressSanitizer: FPE /home/ubuntu/treebacker/fuzzwork/dataset/tprogram/sox-code/asan/so
==14604==ABORTING
 gdb-peda$ r
Starting program: ""| substraint | substraint
                                                                                                                                                                                                                                           January, Laterray, granday/sox-code/src/.libs/sox 4m, ...
       rogram received signal SIGFPE, Arithmetic exception.
                        0x0

0x7ffffff6320 --> 0x0

0x7fffff7b72f5 (<startread+7733>: div rsi)

0xb40 ('0,x0x')

0x2e ('.')

0x7ffffffd0d00 (0x00007ffff7fd0d00)

0x26 ('.')
                            UX246
0x61d528 --> 0x61d030 --> 0x0
0x6f99c0 --> 0x6faee0 ("out/uniq/bug1")
0x6faf00 --> 0x0
                                 : 0x10246 (carry PARITY djust ZERO sign trap INTERRUPT direction overflow)
               0x7fff7b7d2fc <startread+7724: mov 0x7ffff7b7d2fc <startread+7728: wor 0x7ffff7b7d2fc <startread+7730: mov 0x7ffff7b7d2f5 <startread+7730: mov 0x7ffff7b7d2f6 <startread+7730: div 0x7ffff7b7d2f6 <startread+7736: wor 0x7ffff7b7d2fa <startread+7738: div 0x7ffff7b7d2fa <startread+7741: mov 0x7ffff7b7d2fd <startread+7741: mov 0x7ffff7b7d2fd <startread+7741: mov 0x7ffff7b7d2fd <startread+7744: mov 0x7fffff7b7d2fd <startread+7744: mov 0x7fffff7b7d2fd <startread+7744: mov 0x7ffffffb7d2fd <startread+7744: mov 0x7fffffb7d2fd <startread+7744: mov 0x7ffffffb7d2fd <startread+7744: mov 0x7ffffffb7d2fd <startread+7744: mov 0x7ffffffb7d2fd <startread+7744: mov 0x7ffffffb7d2fd <startread+7744: mov 0x7fffffb7d2fd <startread+7744: mov 0x7fffffb7d2fd <startread+7744: mov 0x7fffffb7d2fd <startread+7744: mov 0x7fffffb7d2fd <startread+7744: mov 0x7ffffb7d2fd <startread+7744: mov 0x7fffffb7d2fd <startread+7744: mov 0x7ffffb7d2fd <startread+7744: mov 0x7fffb7d2fd <startread+7744: mov 0x7fffdfd <startread+7744: mov 0x7fffd <startread+7744: mov 0x7fffd <sta
                                                                                                                                                                                                                                              esi,DWORD PTR [r13+0x2c]
edx,edx
rax,rbx
rsi
edx,edx
                                                                                                                                                                                                                                                   rcx
rbp,rax
QWORD PTR [r14],rax
                             ode, data, rodata, value
                            ed reason: SIGFPE
07ffff7b7d2f5 in startread (ft=0x6f99c0) at wav.c:967
wav->numSamples = div_bits(qwDataLength, ft->encoding.bits_per_sample)
                    wav->numsamples = 01_01

pedas bt

0x00007ffff7b7d2f5 in startread (ft=0x6f99c0) at wav.c:967

0x00007ffff7abaf49 in open_read (path=0x6f9680 "out/uniq/bugl", buffer=0x7ffff7bbae4b, buffer
0x0000000000404c33 in main (argc=argc@entry=0x5, argv=coptimized out>, argv@entry=0x7fffffffe
0x00007ffff7l0bbf7 in _libc_start_main (main=0x403100 <main>, argc=0x5, argv=0x7fffffffe898,
at ../csu/libc_start_c:310
0x00000000000040303a in _start ()
 The crafted file is attached.
 1 Attachments
   bug1
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