

New issue

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# Heap buffer overflow in mysofa\_resampler\_reset\_mem #134

Closed

cve-reporting opened this issue on Aug 25, 2020 · 3 comments

cve-reporting commented on Aug 25, 2020 · edited

Opening maliciously crafted file with mysofa\_open leads to crash of the application.  
Heap buffer overflow is caused by zeroing memory block of size (-1 casted to unsigned) in mysofa\_resampler\_reset\_mem (speex\_resampler.c:798).

AddressSanitizer report on crash:  
==4759==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x61600000fbfc at pc 0x7f396b3d3bec bp 0x7fff70a7c110 sp 0x7fff70a7b8b8  
WRITE of size 17179869180 at 0x61600000fbfc thread T0  
#0 0x7f396b3d3beb in \_\_asan\_memset (/usr/lib/x86\_64-linux-gnu/libasan.so.2+0x8cbeb)  
#1 0x4451fa in mysofa\_resampler\_reset\_mem libmysofa-master/src/resampler/speex\_resampler.c:791  
#2 0x439f7c in mysofa\_resample libmysofa-master/src/hrtf/resample.c:55  
#3 0x406e39 in mysofa\_open\_default libmysofa-master/src/hrtf/easy.c:49  
#4 0x406e39 in mysofa\_open libmysofa-master/src/hrtf/easy.c:86  
#5 0x4022d4 in main libmysofa-master/test/libmysofa.c:116  
#6 0x7f396aa7a82f in \_\_libc\_start\_main (/lib/x86\_64-linux-gnu/libc.so.6+0x2082f)  
#7 0x402b48 in \_start (libmysofa-master/test/libmysofa\_asan.exe+0x402b48)

File triggering crash (unzip before test):  
[crash\\_008\\_mysofa\\_resampler\\_reset\\_mem.zip](#)

Code snippet for reproduction:

```
int filter_length;  
int err;  
struct MYSOFA_EASY *easy = NULL;  
easy = mysofa_open(filename, 48000, &filter_length, &err);  
printf("Result: %p err: %d\n", easy, err);  
mysofa_close(easy);
```

Affected versions:

- master (2020-08-26)
- 1.1  
(earlier versions were not tested so far)

hoene commented on Nov 28, 2020

Owner

seams to be already fixed with one of the other commits

hoene commented on Nov 28, 2020

Owner

fixed with #146

hoene closed this as completed on Nov 28, 2020

abergmann commented on Feb 9, 2021

CVE-2020-36151 was assigned to this issue.

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

3 participants

