

New issue

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# Heap buffer overflow in loudness #135

Closed

cve-reporting opened this issue on Aug 26, 2020 · 2 comments

cve-reporting commented on Aug 26, 2020 • edited

Opening maliciously crafted file with mysofa\_open leads to crash of the application.  
Heap buffer overread by 126976 bytes in loudness() (libmysofa/src/hrtf/tools.c:179) cause segmentation fault.

Message from gdb:

```
Program received signal SIGSEGV, Segmentation fault.  
0x000000000040fcdc in loudness (in=0x652000, size=240) at libmysofa-master/src/hrtf/tools.c:180  
180 res += *in * *in;
```

AddressSanitizer report on crash:

```
ASAN:SIGSEGV  
==5041==ERROR: AddressSanitizer: SEGV on unknown address 0x60200002d150 (pc 0x00000043180f bp 0x000000000ea6 sp 0x7fffe30a47f8 T0)  
#0 0x43180e in loudness libmysofa-master/src/hrtf/tools.c:179  
#1 0x43b6a2 in mysofa_loudness libmysofa-master/src/hrtf/loudness.c:49  
#2 0x406e97 in mysofa_open_default libmysofa-master/src/hrtf/easy.c:56  
#3 0x406e97 in mysofa_open libmysofa-master/src/hrtf/easy.c:86  
#4 0x4022d4 in main libmysofa-master/test_libmysofa.c:116  
#5 0x7f86208b682f in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x2082f)  
#6 0x402b48 in _start (libmysofa-master/test_libmysofa_asan.exe+0x402b48)
```

File triggering crash (unzip before test):

[crash\\_000\\_loudness.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 have not been tested yet)

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-2020-36150 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

