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## A heap-buffer-overflow in wav\_file.cpp:262:32 #25

⊙ Open seviezhou opened this issue on Aug 14, 2020 · 0 comments

seviezhou commented on Aug 14, 2020 System info Ubuntu x86\_64, clang 6.0, sela (latest master ca09cb) Configure cmake ... -DCMAKE\_CXX\_FLAGS="-fsanitize=address -g" -DCMAKE\_C\_FLAGS="-fsanitize=address -g" -DCMAKE\_EXE\_LINKER\_FLAGS="-fsanitize=address" -DCMAKE\_MODULE\_LINKER\_FLAGS="-fsanitize=address" -DCMAKE\_MODULE\_LINKER\_FLAGS="-fsanitize=addres fsanitize=address Command line ./build/sela -d @@ /dev/null AddressSanitizer output ==42335==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x625001498100 at pc 0x000000445201 bp 0x7ffc5546e9f0 sp 0x7ffc5546e1a0 READ of size 18 at 0x625001498100 thread T0 #0 0x445200 in \_\_interceptor\_memcpy.part.37 /home/seviezhou/llvm-6.0.0/projects/compiler-rt/lib/asan/../sanitizer\_common/sanitizer\_common\_interceptors.inc:779
#1 0x7fe75bdf4387 in std::basic\_streambuf<char, std::char\_traits<char> >::xsputn(char const\*, long) (/usr/lib/x86\_64-linux-gnu/libstdc++.so.6+0x13d387)
#2 0x7fe75bde3262 in std::ostream::write(char const\*, long) (/usr/lib/x86\_64-linux-gnu/libstdc++.so.6+0x12c262) #3 @x557736 in file::WavFile::writeToFile(std::basic\_ofstream<char, std::char\_traits<char> >&) /home/seviezhou/sela/src/file/wav\_file.cpp:262:32 #4 0x5idcl3 in decodeFile(std::basic\_ifstream<char, std::char\_traits<char> >&, std::basic\_ofstream<char, std::char\_traits<char> >&) /home/seviezhou/sela/src/main.cpp:40:13 #5 0x5if553 in main /home/seviezhou/sela/src/main.cpp:85:17 #6 0x7fe75adc383f in libc start main /build/glibc-e6zv40/glibc-2.23/csu/../csu/libc-start.c:291 #7 0x41c5e8 in \_start (/home/seviezhou/sela/build/sela+0x41c5e8) 0x625001498100 is located 0 bytes to the right of 8192-byte region [0x625001496100,0x625001498100) allocated by thread T0 here:  $\#0~0x5.8278~in~operator~new (unsigned~long)~/home/seviezhou/llvm-6.0.0/projects/compiler-rt/lib/asan/asan_new_delete.cc:92~long)$ #1 0x525759 in \_\_gnu\_cxx::new\_allocator<int>::allocate(unsigned long, void const\*) /usr/lib/gcc/x86\_64-linux-gnu/8/../../../include/c++/8/ext/new\_allocator.h:111:27 #2 0x525759 in std::allocator\_traits<std::allocator<int>>::allocator<int>&, unsigned long) /usr/lib/gcc/x86\_64-linux-gnu/8/../../../include/c++/8/bits/alloc\_traits.h:436 #3 0x525759 in std::\_Vector\_base<int, std::allocator<int> >::\_M\_allocate(unsigned long) /usr/lib/gcc/x86\_64-linux-gnu/8/../.../.../include/c++/8/bits/stl\_vector.h:296
#4 0x525759 in std::\_Vector\_base<int, std::allocator<int> >::\_M\_create\_storage(unsigned long) /usr/lib/gcc/x86\_64-linux-gnu/8/../../../include/c++/8/bits/stl\_vector.h:311 #5 0x525759 in std::\_Vector\_base<int, std::allocator<int> >::\_Vector\_base(unsigned long, std::allocator<int> const&) /usr/lib/gcc/x86\_64-linux-gnu/8/../../include/c++/8/bits/stl\_vector.h:260 #6 0x5576d6 in file::WavFile::writeToFile(std::basic\_ofstream<char, std::char\_traits<char> >&) /home/seviezhou/sela/src/file/wav\_file.cpp:261:51 #7 0x51dc13 in decodeFile(std::basic\_ifstreamxchar, std::char\_traits<char> >8, std::basic\_ofstreamxchar, std::char\_traits<char> >8) /home/seviezhou/sela/src/main.cpp:40:13 #8 0x51f553 in main /home/seviezhou/sela/src/main.cpp:85:17 #9 0x7fe75adc383f in \_\_libc\_start\_main /build/glibc-e6zv40/glibc-2.23/csu/../csu/libc-start.c:291 SUMMARY: AddressSanitizer: heap-buffer-overflow /home/seviezhou/llvm-6.0.0/projects/compiler-rt/lib/asan/../sanitizer\_common/sanitizer\_common\_interceptors.inc:779 in \_interceptor\_memcpy.part.37 Shadow bytes around the buggy address: Shadow byte legend (one shadow byte represents 8 application bytes): Addressable: Partially addressable: 01 02 03 04 05 06 07 Heap left redzone: Freed heap region: Stack left redzone: Stack mid redzone: Stack right redzone: Stack after return: Stack use after scope: Global redzone: Global init order: Poisoned by user: Container overflow: Array cookie: Intra object redzone: ASan internal: Left alloca redzone: Right alloca redzone: ==42335==ABORTING

## POC

Assignees	
No one assigned	
Labels	
None yet	
Projects	
None yet	
Milestone	
No milestone	
Development	
No branches or pull requests	

1 participant

