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A heap-buffer-overflow in rice_decoder.cpp:39 #29



==28346==ABORTING

⊙ 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 ==28346==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x602000001058 at pc 0x00000053ad8d bp 0x7f61d7aaf0b0 sp 0x7f61d7aaf0b1 READ of size 8 at 0x602000001058 thread T80 #0 0x53ad8c in std::_Bit_reference::operator bool() const /usr/lib/gcc/x86_64-linux-gnu/8/../../../include/c++/8/bits/stl_bvector.h:83:17
#1 0x53ad8c in rice::RiceDecoder::generateDecodedUnsignedInts() /home/seviezhou/sela/src/rice/rice_decoder.cpp:39
#2 0x53a05b in rice::RiceDecoder::process() /home/seviezhou/sela/src/rice_decoder.cpp:58:5 #3 0x541287 in frame::FrameDecoder::process() /home/seviezhou/sela/src/frame/frame_decoder.cpp:28:93 ## 0x56e3fe in sela::LoopThrough::process(std::vector<data::WavFrame, std::allocator<data::WavFrame> >&) /home/seviezhou/sela/src/sela/decoder.cpp:30:47 #5 0x7f6202d78b0f (/usr/lib/x86_64-linux-gnu/libstdc++.so.6+0xd0b0f) #6 0x7f6202d7896b9 in start_thread (/lib/x86_64-linux-gnu/libpthread.so.0+0x76b9) #7 0x7f6201e9b4dc in clone /build/glibc-e6zv40/glibc-2.23/misc/../sysdeps/unix/sysv/linux/x86_64/clone.S:109 0x602000001058 is located 0 bytes to the right of 8-byte region [0x602000001050,0x602000001058) allocated by thread T80 here: #1 0x534dcd in __gnu_cxx::new_allocator<unsigned long>::allocate(unsigned long, void const*) /usr/lib/gcc/x86_64-linux gnu/8/../../include/c++/8/ext/new_allocator.h:111:27
#2 0x534dcd in std::allocator_traits<std::allocator<unsigned long> >::allocate(std::allocator<unsigned long) /usr/lib/gcc/x86_64-linux-</pre> gmu/8/../../include/c++/8/bits/alloc_traits.h:436
#3 0x534dcd in std::_Bvector_base<std::allocator
cbool> >::_M_allocate(unsigned long) /usr/lib/gcc/x86_64-linux-gnu/8/../../include/c++/8/bits/stl_bvector.h:530 ## 0x534dcd in std::vector<bool, std::allocator<book>>:::_M_reallocate(unsigned long) /usr/lib/gcc/x86_64-linux-gnu/8/../../../include/c++/8/bits/vector.tcc:764
#5 0x534560 in std::vector<book, std::allocator<book>>::reserve(unsigned long) /usr/lib/gcc/x86_64-linux-gnu/8/../../../include/c++/8/bits/stl_bvector.h:921:4 Thread T80 created by T0 here:
#0 0x434b8d in pthread_create /home/seviezhou/llvm-6.0.0/projects/compiler-rt/lib/asan/asan_interceptors.cc:204 #1 0x7f6202d78da4 in std::thread::_M_start_thread(std::unique_ptr<std::thread::_State, std::default_delete<std::thread::_State> >, void (*)()) (/usr/lib/x86_64-linuxgnu/libstdc++.so.6+0xd0da4) #2 0x56c1ea in sela::Decoder::processFrames(std::vector<data::WavFrame, std::allocator<data::WavFrame> >&) /home/seviezhou/sela/src/sela/decoder.cpp:68:34 #3 0x56d73b in sela::Decoder::process() /home/seviezhou/sela/src/sela/decoder.cpp:98:5 #4 @x5idbe8 in decodeFile(std::basic_ifstream<char, std::char_traits<char> x8, std::basic_ofstream<char, std::char_traits<char> x8) /home/seviezhou/sela/src/main.cpp:39:37 #5 0x51f553 in main /home/seviezhou/sela/src/main.cpp:85:17 #6 0x7f6201db483f in __libc_start_main /build/glibc-e6zv40/glibc-2.23/csu/../csu/libc-start.c:291 SUMMARY: AddressSanitizer: heap-buffer-overflow /usr/lib/gcc/x86_64-linux-gnu/8/../../include/c++/8/bits/stl_bvector.h:83:17 in std::_Bit_reference::operator bool() const Shadow byte legend (one shadow byte represents 8 application bytes): Addressahle: 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:

Assignees			
No one assigned			
Labels			
None yet			
Projects			
None yet			
Milestone			
No milestone			

1 participant

No branches or pull requests

POC

 $heap-overflow-generate Decoded Unsigned Ints-rice_decoder-39.zip$

