

<> Code ⊙ Issues 59 % Pull requests 1 ⊙ Actions ⊞ Projects □ Wiki

Jump to bottom

## A global-buffer-overflow in hevcdecoderconfigrecord.cpp:317:38 #87



New issue

⊙ Closed seviezhou opened this issue on Aug 4, 2020 · 1 comment

seviezhou commented on Aug 4, 2020 System info Ubuntu X64, gcc (Ubuntu 5.5.0-12ubuntu1), heif (latest master 2fc78e) Configure cmake ../srcs -DCMAKE\_CXX\_FLAGS="-fsanitize=address -g" -DCMAKE\_C\_FLAGS="-fsanitize=address -g" -DCMAKE\_EXE\_LINKER\_FLAGS="-fsanitize=address" Command line modify example.cpp, use example7() to receive filename from command-line. ./build/bin/example @@ AddressSanitizer output ==13301==ERROR: AddressSanitizer: global-buffer-overflow on address 0x0000009536e0 at pc 0x0000008203ca bp 0x7ffc75603000 sp 0x7ffc75602ff8 READ of size 2 at 0x0000009536e0 thread T0 #0 0x8203c9 in HevcDecoderConfigurationRecord::getPicHeight() const /home/seviezhou/heif/srcs/common/hevcdecoderconfigrecord.cpp:317:38 #1 0x8826dd in HEIF::WriterImpl::getConfigIndex(HEIF::DecoderConfigId, unsigned short&) /home/seviezhou/heif/srcs/writer/writermetaimpl.cpp:1199:98 #2 @x87elbf in HEIF::WriterImpl:addImage(HEIF::MediaDataId const8, HEIF::ImageId8) /home/seviezhou/heif/srcs/writer/writermetaimpl.cpp:199:31 #3 @x52072f in main /home/seviezhou/heif/srcs/examples/example.cpp:104:29 #4 0x7f3f5488883f in \_libc\_start\_main /build/glibc-e6zv40/glibc-2/23/csu/../csu/libc-start.c:291 #5 0x4lf0b8 in \_start (/home/seviezhou/heif/build/bin/example+0x4lf0b8) 0x0000009536e0 is located 32 bytes to the left of global variable '<string literal>' defined in '/usr/lib/gcc/x86\_64-linux-gnu/8/../../.include/c++/8/bits/stl\_vector.h:960:29' (0x953700) of size 74 ''<string literal>' is ascii string 'vector::\_M\_range\_check: \_\_n (which is %zu) >= this->size() (which is %zu)'
0x00000009536e0 is located 31 bytes to the right of global variable 'typeinfo name for HevcDecoderConfigurationRecord' defined in '/home/seviezhou/heif/srcs/common/hevcdecoderconfigrecord.cpp' (0x9536a0) of size 33 'typeinfo name for HevcDecoderConfigurationRecord' is ascii string '30HevcDecoderConfigurationRecord'
SUMMARY: AddressSanitizer: global-buffer-overflow /home/seviezhou/heif/srcs/common/hevcdecoderconfigrecord.cpp:317:38 in HevcDecoderConfigurationRecord::getPicHeight() const Shadow bytes around the buggy address: 0x0000801226c0: 00 00 00 00 00 f9 =>0x0000801226d0: f9 f9 f9 f9 00 00 00 01 f9 f9 f9[f9]f9 f9 f9 0x0000801226e0: 00 00 00 00 00 00 00 00 02 f9 f9 f9 f9 f9 0x0000801226f0: 00 00 00 00 00 00 00 00 00 f9 f9 f9 f9 f9 f9 Shadow byte legend (one shadow byte represents 8 application bytes): Addressable: Partially addressable: 01 02 03 04 05 06 07 Heap left redzone: fa 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: ==13301==ABORTING POC global-overflow-getPicWidth-hevcdecoderconfigrecord-317.zip

lassehe commented on Aug 12, 2020

Collaborator

Thank you for reporting this. The issue was fixed in commit b26a708.



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

2 participants

