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## AddressSanitizer: heap-buffer-overflow in GetByteStr() at ngiflib.c:108 in NGIFLIB\_NO\_FILE mode #19

**⊘ Closed )** Marsman1996 opened this issue on Jun 29, 2021 · 1 comment

Marsman1996 commented on Jun 29, 2021 Similar to #18, this Overflow problem is because in NGIFLIB\_NO\_FILE mode, GetByteStr() copy memory buffer without checking the boundary. Test Environment Ubuntu 16.04, 64bit ngiflib(master 0245fd4) How to trigger 1. Compile the program with AddressSanitizer in NGIFLIB\_NO\_FILE mode cc="clang -fsanitize=address -g" CFLAGS+=-DNGIFLIB\_NO\_FILE make 2. run the compiled program \$ ./gif2tga --outbase /dev/null \$POC POC file https://github.com/Marsman1996/pocs/raw/master/ngiflib/poc-ngiflib-0245fd4-GetByteStr-overflow **Details** ASAN report ==19652==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x606000000118 at pc 0x0000004dd09d bp 0x7ffd61fa7590 sp 0x7ffd61fa6d40 READ of size 132 at 0x606000000118 thread T0 #0 0x4dd09c in \_asan\_memcpy /home/mcgrady/wyh/llvm/llvm-6.0.0.src/projects/compiler-rt/lib/asan/asan\_interceptors\_memintrinsics.cc:23 #1 0x51771a in GetByteStr /opt/disk/marsman/test/ngiflib/build\_asan/ngiflib.c:108:3
#2 0x51771a in LoadGif /opt/disk/marsman/test/ngiflib/build\_asan/ngiflib.c:716 #3 0x5161b5 in main /opt/disk/marsman/test/ngiflib/build\_asan/gif2tga.c:95:10
#4 0x7f3de58ea83f in \_\_libc\_start\_main /build/glibc-57Ft5T/glibc-2.23/csu/../csu/libc-start.c:291 #5 0x419fe8 in start (/opt/disk/marsman/test/ngiflib/bin asan/bin/gif2tga+0x419fe8) 0x606000000118 is located 0 bytes to the right of 56-byte region [0x606000000000,0x6060000000118) ## 0x4de218 in \_\_interceptor\_malloc /home/mcgrady/wyh/llvm/llvm-6.0.0.src/projects/compiler-rt/lib/asan/asan\_malloc\_linux.cc:88 #1 0x516021 in main /opt/disk/marsman/test/ngiflib/build\_asan/gif2tga.c:75:11 #2 0x7f3de58ea83f in \_\_libc\_start\_main /build/glibc-S7ft5T/glibc-2.23/csu/../csu/libc-start.c:291 SUMMARY: AddressSanitizer: heap-buffer-overflow /home/mcgrady/wyh/llvm/llvm-6.0.0.src/projects/compiler-rt/lib/asan/asan\_interceptors\_memintrinsics.cc:23 in \_asan\_memcpy 0x0c0c7fff78000: fa fa fa fa fd fd fd fd fd fd fd fa fa fa fa fa 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: ==19652==ABORTING

miniupnp commented on Aug 11, 2021 Owner fixed with 19913ae

miniupnp closed this as completed on Aug 11, 2021

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