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AddressSanitizer: heap-buffer-overflow in GetByte() at ngiflib.c:70 in NGIFLIB_NO_FILE mode #18



Marsman1996 commented on Jun 29, 2021 • edited ▼ This Overflow problem is because in NGIFLIB_NO_FILE mode, GetByte() reads 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-GetByte-overflow **Details** ASAN report ==8923==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x606000000058 at pc 0x00000051a564 bp 0x7fff7f5aeba0 sp 0x7fff7f5aeb98 READ of size 1 at 0x606000000058 thread T0 #0 0x51a563 in GetByte /opt/disk/marsman/test/ngiflib/build_asan/ngiflib.c:70:10 #1 0x51902b in LoadGif /opt/disk/marsman/test/ngiflib/build_asan/ngiflib.c:680:23
#2 0x51696e in main /opt/disk/marsman/test/ngiflib/build_asan/gif2tga.c:95:10 #3 0x7fa15acde83f in __libc_start_main /build/glibc-S7Ft5T/glibc-2.23/csu/../csu/libc-start.c:291
#4 0x419fa8 in __start (/opt/disk/marsman/test/ngiflib/build_asan/gif2tga+0x419fa8) 0x606000000058 is located 0 bytes to the right of 56-byte region [0x606000000020,0x6 allocated by thread T0 here: $\#0\ 0x40e1d8\ in\ _interceptor_malloc\ /home/mcgrady/wyh/llvm/llvm-6.0.0.src/projects/compiler-rt/lib/asan/asan_malloc_linux.cc:88$ #1 0x5166c0 in main /opt/disk/marsman/test/ngiflib/build_asan/gif2tga.c:75:11 #2 0x7fa15acde83f in __libc_start_main /build/glibc-S7Ft5T/glibc-2.23/csu/../csu/libc-start.c:291 SUMMARY: AddressSanitizer: heap-buffer-overflow /opt/disk/marsman/test/ngiflib/build_asan/ngiflib.c:70:10 in GetByte Shadow bytes around the buggy address: Shadow byte legend (one shadow byte represents 8 application bytes): $\text{Addressable:} \qquad \text{00}$ Heap left redzone: fa
Freed heap region: fd 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: ==8923==ABORTING

Marsman1996 mentioned this issue on Jun 29, 2021

AddressSanitizer: heap-buffer-overflow in GetByteStr() at ngiflib.c:108 in NGIFLIB_NO_FILE mode #19

(⊘ Closed)

miniupnp closed this as completed in 19913ae on Aug 11, 2021

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