

<> Code

New issue

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There is a use-after-free detected by AddressSanitizer #2109

Closed

AAArdu opened this issue on Feb 7 · 0 comments

AAArdu commented on Feb 7

Description

There is a use-after-free detected by AddressSanitizer

System info

Ubuntu 20.04.2 LTS clang version 12.0.0-++20210402082642+04ba60cfe598-1~exp1~20210402063359.71 MP4Box - GPAC version 1.1.0-DEV-rev1727-g8be34973d-master

Build command

./configure --static-mp4box --prefix=`realpath ./install` --enable-sanitizer --cc=clang -cxx=clang++

crash command

MP4Box -lsr -out /dev/null poc_file

Pocs

poc.zip

Crash output

```
==28733==ERROR: AddressSanitizer: heap-use-after-free on address 0x603000002bc0 at pc
0x000000721f36 bp 0x7ffec8945940 sp 0x7ffec8945938
READ of size 2 at 0x603000002bc0 thread T0
    #0 0x721f35 in
gf_node_get_attribute_by_tag/programs/mp4box/builds/build10/src/scenegraph/xml_ns.c:934:18
    #1 0x70ca13 in
gf dom listener del/programs/mp4box/builds/build10/src/scenegraph/dom events.c:161:6
    #2 0x70ccaa in
gf_dom_event_remove_all_listeners/programs/mp4box/builds/build10/src/scenegraph/dom_events.c:196:3
    #3 0x5c54f5 in
gf_node_free/programs/mp4box/builds/build10/src/scenegraph/base_scenegraph.c:1601:4
    #4 0x6dac25 in gf_svg_node_del/programs/mp4box/builds/build10/src/scenegraph/svg_types.c:126:2
    #5 0x5bf0f1 in
gf_node_unregister/programs/mp4box/builds/build10/src/scenegraph/base_scenegraph.c:761:3
    #6 0x5bfb17 in
gf sg reset/programs/mp4box/builds/build10/src/scenegraph/base scenegraph.c:479:3
    #7 0x5be86d in gf_sg_del/programs/mp4box/builds/build10/src/scenegraph/base_scenegraph.c:162:2
    #8 0x4eba5d in
dump isom scene/programs/mp4box/builds/build10/applications/mp4box/filedump.c:221:2
    #9 0x4e0bda in mp4boxMain/programs/mp4box/builds/build10/applications/mp4box/main.c:6146:7
    #10 0x7f9d3ecb80b2 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x270b2)
    #11 0x41ea6d in _start (/zhengjie/cmdline-
fuzz/programs/mp4box/builds/build10/bin/gcc/MP4Box+0x41ea6d)
0x603000002bc0 is located 0 bytes inside of 24-byte region [0x603000002bc0,0x603000002bd8)
freed by thread T0 here:
    #0 0x499a62 in free (/zhengjie/cmdline-
fuzz/programs/mp4box/builds/build10/bin/gcc/MP4Box+0x499a62)
    #1 0x7215a7 in
gf_node_delete_attributes/programs/mp4box/builds/build10/src/scenegraph/xml_ns.c:728:3
    #2 0x6dac15 in gf_svg_node_del/programs/mp4box/builds/build10/src/scenegraph/svg_types.c:124:2
    #3 0x5bf0f1 in
gf_node_unregister/programs/mp4box/builds/build10/src/scenegraph/base_scenegraph.c:761:3
    #4 0x5bfb17 in
gf_sg_reset/programs/mp4box/builds/build10/src/scenegraph/base_scenegraph.c:479:3
    #5 0x5be86d in gf_sg_del/programs/mp4box/builds/build10/src/scenegraph/base_scenegraph.c:162:2
    #6 0x4eba5d in
dump_isom_scene/programs/mp4box/builds/build10/applications/mp4box/filedump.c:221:2
    #7 0x4e0bda in mp4boxMain/programs/mp4box/builds/build10/applications/mp4box/main.c:6146:7
    #8 0x7f9d3ecb80b2 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x270b2)
previously allocated by thread T0 here:
    #0 0x499ccd in malloc (/zhengjie/cmdline-
fuzz/programs/mp4box/builds/build10/bin/gcc/MP4Box+0x499ccd)
    #1 0x72217c in
gf_node_create_attribute_from_datatype/programs/mp4box/builds/build10/src/scenegraph/xml_ns.c:737:2
    #2 0x72217c in
gf_xml_create_attribute/programs/mp4box/builds/build10/src/scenegraph/xml_ns.c:541:9
    #3 0x72217c in
gf_node_get_attribute_by_tag/programs/mp4box/builds/build10/src/scenegraph/xml_ns.c:946:9
    #4 0xaf1c3f in lsr_read_rare_full/programs/mp4box/builds/build10/src/laser/lsr_dec.c:1446:21
    #5 0xaf01c7 in lsr_read_listener/programs/mp4box/builds/build10/src/laser/lsr_dec.c:4355:2
```

```
#6 0xb00747 in
lsr read scene content model/programs/mp4box/builds/build10/src/laser/lsr dec.c:4600:7
   #7 0xaff8a0 in
lsr read group content/programs/mp4box/builds/build10/src/laser/lsr dec.c:4785:8
   #8 0xaeb4d9 in lsr_read_rectClip/programs/mp4box/builds/build10/src/laser/lsr_dec.c:3987:2
    #9 0xb00752 in
lsr read scene content model/programs/mp4box/builds/build10/src/laser/lsr dec.c:4519:7
   #10 0xaff8a0 in
lsr_read_group_content/programs/mp4box/builds/build10/src/laser/lsr_dec.c:4785:8
   #11 0xae55a4 in lsr read svg/programs/mp4box/builds/build10/src/laser/lsr dec.c:4192:2
lsr read command list/programs/mp4box/builds/build10/src/laser/lsr dec.c:5886:9
    #13 0xaddbfb in
lsr_decode_laser_unit/programs/mp4box/builds/build10/src/laser/lsr_dec.c:6133:6
   #14 0xade67f in
gf_laser_decode_command_list/programs/mp4box/builds/build10/src/laser/lsr_dec.c:230:6
   #15 0xa356af in
gf sm load run isom/programs/mp4box/builds/build10/src/scene manager/loader isom.c:307:10
   #16 0x4eb9a1 in
dump_isom_scene/programs/mp4box/builds/build10/applications/mp4box/filedump.c:203:14
   #17 0x4e0bda in mp4boxMain/programs/mp4box/builds/build10/applications/mp4box/main.c:6146:7
   #18 0x7f9d3ecb80b2 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x270b2)
SUMMARY: AddressSanitizer: heap-use-after-
free/programs/mp4box/builds/build10/src/scenegraph/xml_ns.c:934:18 in gf_node_get_attribute_by_tag
Shadow bytes around the buggy address:
 0x0c067fff8520: fd fa fa fd fd fd fa fa fa fd fd fd fa fa
 0x0c067fff8530: fd fd fd fa fa fa fd fd fd fa fa fa fd fd fd fa
 0x0c067fff8540: fa fa fd fd fd fa fa fa fd fd fd fd fa fa fd fd
 0x0c067fff8550: fd fa fa fd fd fd fa fa fa fd fd fd fd fa fa
 0x0c067fff8560: fd fd fd fa fa fa fd fd fd fa fa fa 00 00 00 fa
=>0x0c067fff8570: fa fa fd fd fd fa fa[fd]fd fd fa fa fa fd fd
 0x0c067fff8580: fd fd fa fa fd fd fd fa fa fa fd fd fd fa fa
 0x0c067fff8590: fd fd fd fa fa fa fd fd fd fa fa fa fd fd fd fa
 0x0c067fff85a0: fa fa fd fd fa fa fa fd fd fd fa fa fa fd fd
 0x0c067fff85b0: fd fa fa fa fd fd fd fa fa fa fd fd fd fa fa
 0x0c067fff85c0: fd fd fd fa fa fa fd fd fd fa fa fd fd fd fa
Shadow byte legend (one shadow byte represents 8 application bytes):
 Addressable:
                        00
 Partially addressable: 01 02 03 04 05 06 07
 Heap left redzone:
 Freed heap region:
 Stack left redzone:
                          f1
 Stack mid redzone:
                          f2
 Stack right redzone:
                          £3
 Stack after return:
                        f5
 Stack use after scope: f8
 Global redzone:
                          f9
 Global init order:
                          f6
 Poisoned by user:
                          f7
 Container overflow:
 Array cookie:
 Intra object redzone:
                          bb
 ASan internal:
                          fe
 Left alloca redzone:
                          ca
 Right alloca redzone:
                          cb
```





a jeanlf closed this as completed in 9723dd0 on Feb 8

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

