



MedialInfo Bugs

A unified display of relevant technical and tag data for A/V files
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#1154 heap overflow in MedialInfoLib::File_Gxf::ChooseParser_ChannelGrouping



Milestone: [Crash](#) Status: closed-fixed Owner: [Jerome Martinez](#) Labels: None
Priority: 5
Updated: 2020-10-24 Created: 2020-10-06 Creator: [casperslei](#) Private: No

desc:

This function should check `TrackID`.

```
1574 | File__Analyze* File_Gxf::ChooseParser_ChannelGrouping(int8u TrackID)
1575 | {
1576 |     #ifdef MEDIAINFO_SMPTEST0337_YES
1577 |         File_ChannelGrouping* Parser;
1578 |         if (Audio_Count%2)
1579 |         {
1580 |             if (!Streams[TrackID-1].IsChannelGrouping)
```

result:

```
==95136==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x6260000000a6 at pc 0x0000000000000000
READ of size 1 at 0x6260000000a6 thread T0
#0 0xe6a2d8 in MediaInfoLib::File_Gxf::ChooseParser_ChannelGrouping(unsigned char) /home/casper/targets/struct/mediainfo/afllvm/MediaInfoLib/
#1 0xe5c7b7 in MediaInfoLib::File_Gxf::map() /home/casper/targets/struct/mediainfo/afllvm/MediaInfoLib/
#2 0xe558f6 in MediaInfoLib::File_Gxf::Data_Parse() /home/casper/targets/struct/mediainfo/afllvm/MediaInfoLib/
#3 0x1b1a27e in MediaInfoLib::File_Analyze::Data_Manage() /home/casper/targets/struct/mediainfo/afllvm/MediaInfoLib/
#4 0x1b0e4ad in MediaInfoLib::File_Analyze::Buffer_Parse() /home/casper/targets/struct/mediainfo/afllvm/MediaInfoLib/
#5 0x1b03c45 in MediaInfoLib::File_Analyze::Open_Buffer_Continue_Loop() /home/casper/targets/struct/mediainfo/afllvm/MediaInfoLib/
#6 0x1afec2e in MediaInfoLib::File_Analyze::Open_Buffer_Continue(unsigned char const*, unsigned int) /home/casper/targets/struct/mediainfo/afllvm/MediaInfoLib/
#7 0x6b8bbb in MediaInfoLib::MediaInfo_Internal::Open_Buffer_Continue(unsigned char const*, unsigned int) /home/casper/targets/struct/mediainfo/afllvm/MediaInfoLib/
#8 0x1747173 in MediaInfoLib::Reader_File::Format_Test_PerParser_Continue(MediaInfoLib::MediaInfo_Internal*) /home/casper/targets/struct/mediainfo/afllvm/MediaInfoLib/
#9 0x17423d3 in MediaInfoLib::Reader_File::Format_Test_PerParser(MediaInfoLib::MediaInfo_Internal*) /home/casper/targets/struct/mediainfo/afllvm/MediaInfoLib/
#10 0x5c5fd1 in MediaInfoLib::MediaInfo_Internal::ListFormats(std::__cxx11::basic_string<wchar_t>, unsigned int) /home/casper/targets/struct/mediainfo/afllvm/MediaInfoLib/
#11 0x173f2ef in MediaInfoLib::Reader_File::Format_Test(MediaInfoLib::MediaInfo_Internal*) /home/casper/targets/struct/mediainfo/afllvm/MediaInfoLib/
#12 0x683427 in MediaInfoLib::MediaInfo_Internal::Entry() /home/casper/targets/struct/mediainfo/afllvm/MediaInfoLib/
#13 0x6562f6 in MediaInfoLib::MediaInfo_Internal::Open(std::__cxx11::basic_string<wchar_t>, unsigned int) /home/casper/targets/struct/mediainfo/afllvm/MediaInfoLib/
#14 0x702f03 in MediaInfoLib::MediaInfoList_Internal::Entry() /home/casper/targets/struct/mediainfo/afllvm/MediaInfoLib/
#15 0x6fefef4 in MediaInfoLib::MediaInfoList_Internal::Open(std::__cxx11::basic_string<wchar_t>, unsigned int) /home/casper/targets/struct/mediainfo/afllvm/MediaInfoLib/
#16 0x4fd13d in fuzztest(int, char**) /home/casper/targets/struct/mediainfo/afllvm/MediaInfo/Project/GNUmakefile
#17 0x4fec3f in main /home/casper/targets/struct/mediainfo/afllvm/MediaInfo/Project/GNUmakefile
#18 0x7f4535ab6b96 in __libc_start_main /build/glibc-OTsEL5/glibc-2.27/csu/../csu/libc-start/1-csu/libc-start.c
#19 0x426469 in _start (/home/casper/targets/struct/mediainfo/afllvm/fuzzrun/mediainfo/afllvm)

0x6260000000a6 is located 90 bytes to the left of 10752-byte region [0x626000000100,0x626000000100)
allocated by thread T0 here:
#0 0x4f7278 in operator new(unsigned long) /home/casper/fuzz/fuzzdeps/llvm-9.0.0.src/projects/clang/lib/AST/AST.cpp
#1 0xe6b274 in __gnu_cxx::new_allocator<MediaInfoLib::File_Gxf::stream>::allocate(unsigned long) /home/casper/targets/struct/mediainfo/afllvm/MediaInfoLib/
#2 0xe6b274 in std::allocator_traits<std::allocator<MediaInfoLib::File_Gxf::stream> >::allocate(std::allocator<MediaInfoLib::File_Gxf::stream>, std::allocator<MediaInfoLib::File_Gxf::stream>) /home/casper/targets/struct/mediainfo/afllvm/MediaInfoLib/
#3 0xe6b274 in std::vector<MediaInfoLib::File_Gxf::stream, std::allocator<MediaInfoLib::File_Gxf::stream> >::push_back(const MediaInfoLib::File_Gxf::stream&) /home/casper/targets/struct/mediainfo/afllvm/MediaInfoLib/
#4 0xe6b274 in std::vector<MediaInfoLib::File_Gxf::stream, std::allocator<MediaInfoLib::File_Gxf::stream> >::push_back(const MediaInfoLib::File_Gxf::stream&) /home/casper/targets/struct/mediainfo/afllvm/MediaInfoLib/
```

```
SUMMARY: AddressSanitizer: heap-buffer-overflow /home/casper/targets/struct/mediainfo/afllvm/MediaInfo/Project/GNUmakefile
Shadow bytes around the buggy address:
 0x0c4c7fff7fc0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x0c4c7fff7fd0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x0c4c7fff7fe0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x0c4c7fff7ff0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x0c4c7fff8000: fa fa fa fa fa fa fa fa fa fa fa fa fa fa fa fa
=>0x0c4c7fff8010: fa fa fa fa[fa]fa fa fa fa fa fa fa fa fa fa fa
 0x0c4c7fff8020: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x0c4c7fff8030: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x0c4c7fff8040: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x0c4c7fff8050: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x0c4c7fff8060: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
Shadow byte legend (one shadow byte represents 8 application bytes):
Addressable: 00
Partially addressable: 01 02 03 04 05 06 07
Heap left redzone: fa
Freed heap region: fd
Stack left redzone: f1
Stack mid redzone: f2
Stack right redzone: f3
Stack after return: f5
Stack use after scope: f8
Global redzone: f9
Global init order: f6
Poisoned by user: f7
Container overflow: fc
Array cookie: ac
Intra object redzone: bb
ASan internal: fe
Left alloca redzone: ca
Right alloca redzone: cb
Shadow gap: cc
==95136==ABORTING
```

1 Attachments

[DOC](#)

Discussion



Jerome Martinez - 2020-10-24



- Description has changed:
Diff:

```
--- old
+++ new
@@ -1,4 +1,3 @@
-
- desc:
-   This function should check 'TrackID'.
-   ...
```

- status: open -> closed-fixed
- assigned to: Jerome Martinez



Jerome Martinez - 2020-10-24



[Fixed.](#)
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