

中 v0.27.4

Milestone

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henices commented on Apr 7, 2021
VERSION
exiv 2 0.27.4.1
https://github.com/Exiv2/exiv2/tree/0.27-maintenance
REPRODUCE
Compile exiv2 with asan:
   CC= clang\ CXX= clang++\ cmake\ ..\ -DCMAKE\_BUILD\_TYPE= Release\ -DCMAKE\_CXX\_FLAGS="-fsanitize= address"\ \setminus -DCMAKE\_C\_FLAGS="-fsanitize= address"\ \setminus -DCMAKE\_MODULE\_LINKER\_FLAGS="-fsanitize= address"\ \setminus -DCMAKE\_MODULE\_LINKER\_FLAGS="-fsanitize= address"
https://github.com/henices/pocs/raw/master/tests_83a94b3337206caa6803f625eb63db061395cf14
https://github.com/henices/pocs/raw/master/tests_83a94b3337206caa6803f625eb63db061395cf14.exv
exiv2 in tests_83a94b3337206caa6803f625eb63db061395cf14
    ==4194247==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x6020000000f7 at pc 0x7f55bcfeed2d bp 0x7ffd0d945470 sp 0x7ffd0d945460
   WRITE of size 8 at 0x6020000000f7 thread T0
        ## 0x7f55bcfeed2c in Exiv2::Jp2Image::doWriteMetadata(Exiv2::BasicIo8) (/home/henices/tests/exiv2/build_asan/lib/libexiv2.so.27+0x3b3d2c)
## 0x7f55bcfec857 in Exiv2::Jp2Image::writeMetadata() (/home/henices/tests/exiv2/build_asan/lib/libexiv2.so.27+0x3b1857)
        #2 0x541653 in (anonymous namespace)::metacopy(std::_cxx11::basic_string<char, std::char_traits<char>, std::allocator<char> > const8, std::_cxx11::basic_string<char,
   std::char_traits<char>, std::allocator<char> > const&, int, bool) (/home/henices/tests/exiv2/build_asan/bin/exiv2+0x541653)
#3 0x545049 in Action::Insert::run(std::_cxx11::basic_string<char, std::char_traits<char>, std::allocator<char> > const&)
   (/home/henices/tests/exiv2/build_asan/bin/exiv2+0x545049)
        #4 0x4fddf3 in main (/home/henices/tests/exiv2/build_asan/bin/exiv2+0x4fddf3) #5 0x7f55bc6da1e1 in __libc_start_main /usr/src/debug/glibc-2.32-37-g760e1d2878/csu/../csu/libc-start.c:314:16
        #6 0x4224cd in start (/home/henices/tests/exiv2/build asan/bin/exiv2+0x4224cd)
   0x6020000000f7 is located 5 bytes to the right of 2-byte region [0x6020000000f0,0x60200000000f2)
  allocated by thread T0 here:
#0 0x4fad47 in operator new[](unsigned long) (/home/henices/tests/exiv2/build_asan/bin/exiv2+0x4fad47)
        #1 0x7f55bd064606 in Exiv2::DataBuf::DataBuf(long) (/home/henices/tests/exiv2/bulld_asan/lib/libexiv2.so.27+0x429606)
#2 0x7f55bcfec857 in Exiv2::Jp2Image::writeMetadata() (/home/henices/tests/exiv2/bulld_asan/lib/libexiv2.so.27+0x3b1857)
   #3 0%541653 in (anonymous namespace)::metacopy(std::_cxx11::basic_stringcchar, std::char_traitscchar>, std::allocator<char> > const&, std::_cxx11::basic_stringcchar, std::char_traitscchar>, std::allocator<char> > const&, int, bool) (/home/henices/tests/exiv2/build_asan/bin/exiv2+0x541653)
#4 0x545049 in Action::Insert::run(std::_cxx11::basic_stringcchar, std::char_traits<char>, std::allocator<char> > const&, int, bool) (/home/henices/tests/exiv2/build_asan/bin/exiv2+0x541653)
   (/home/henices/tests/exiv2/build_asan/bin/exiv2+0x545049)
        #5 0x4fddf3 in main (/home/henices/tests/exiv2/huild asan/hin/exiv2+0x4fddf3)
        #6 0x7f55bc6da1e1 in __libc_start_main /usr/src/debug/glibc-2.32-37-g760e1d2878/csu/../csu/libc-start.c:314:16
   SUMMARY: AddressSanitizer: heap-buffer-overflow (/home/henices/tests/exiv2/build_asan/lib/libexiv2.so.27+0x3b3d2c) in Exiv2::Jp2Image::doWriteMetadata(Exiv2::BasicIo&)
  0x0c047fff8000: fa fa fd fa fa fd fa fa fa fa 00 00 fa fa 00 00
   =>0x0c047fff8010: fa fa 00 00 fa fa 00 00 fa fa 00 fa fa fa[02]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: fa
     Freed heap region:
Stack left redzone:
                                    fd
      Stack mid redzone:
                                     f2
      Stack right redzone:
                                    f3
      Stack after return:
      Stack use after scope:
     Global redzone:
     Global init order:
Poisoned by user:
     Container overflow:
                                    fc
      Array cookie:
     Intra object redzone:
                                    bb
      ASan internal:
     Left alloca redzone:
                                    ca
      Right alloca redzone:
   Shadow gap:
==4194247==ABORTING
Credit: Zhen Zhou of NSFOCUS Security Team
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clanmills commented on Apr 8, 2021

Please provide your command-line to reproduce this issue.

I will fix this later today. I did intend to release Exiv2 v0.27.4 RC2 today. I will delay that for a few days to deal with anything else you discover in the next few days.
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henices commented on Apr 8, 2021

exiv2 in tests_83a94b3337206caa6803f625eb63db061395cf14
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Clanmills commented on Apr 8, 2021

Thanks. I am now able to reproduce this. It will be fixed today.

559 rmills@rmillsmm-local:~/gnu/github/exiv2/0.27-maintenance/build/foo $ 1s -1 total 88
```

