

New issue Jump to bottom

# Assertion failed in lib/jxl/image.cc jxl::PlaneBase::PlaneBase #422

**⊘ Closed** aug5t7 opened this issue on Aug 8, 2021 · 2 comments aug5t7 commented on Aug 8, 2021

## poc.gif

## Expected behavior

No assertion failed

### Environment

- OS: 5.8.0-59-generic 20.04.1-Ubuntu
- Compiler version: clang version 7.0.1-12
- CPU type: x86\_64
- cjxl/djxl version string: cjxl v0.5.0 4122f3e [AVX2,SSE4,Scalar]

#### Additional context

It seems that the memory allocation size is too large causing the assertion failed.

Some gdb information

```
gdb-peda$
               ------|
RAX: 0x801
RBX: 0x3fffc
RCX - 0v40080
RDX: 0x0
RSI: 0x40080
RSP: 0x7fffffffc470 --> 0xffff
RIP: 0x55555573b858 (<ix1::PlaneBase::PlaneBase(unsigned long, unsigned long, unsigned long)+232>:
                                                                                                                                                                     imul r14.rcx)
R8 : 0xffffffffffffe0
R9 : 0x6e4e ('Nn')
R10: 0x5555559fa8dc --> 0x0
R11: 0x5555559fa600 --> 0x206c786adc020000
R12: 0x4
R13: 0x5555559de970 --> 0x5555559daf10 --> 0x555555628e80 (<jxl::ColorEncoding::~ColorEncoding()>: push rbp)
0x5555573b84b <jx1::PlaneBase::PlaneBase(unsigned long, unsigned long, unsigned long)+219>: test rdx,rdx
     0x5555573b93c <jx1::PlaneBase::PlaneBase(unsigned long, unsigned lo
     0x55555573b854 <jxl::PlaneBase::PlaneBase(unsigned long, unsigned long, unsigned long)+228>: mov
                                                                                                                                                                     QWORD PTR [r15+0x10],rcx
 => 0x55555573b858 <jxl::PlaneBase::PlaneBase(unsigned long, unsigned long, unsigned long)+232>: imul r14,rcx
    0x3595730856 (ykl::PlaneBase::PlaneBase(unsigned long, unsigned long, unsigned long). validation of the control of the control
      call 0x5555556240d0 <jx1::CacheAligned::Allocate(unsigned long, unsigned long)>
[------stack------stack-------
0008| 0x7fffffffc478 --> 0x5555559f9580 --> 0xffff0000ffff
0016| 0x7ffffffc480 --> 0x7fffffffd368 --> 0xfffffffffffffff
0024 0x7ffffffc488 --> 0xffff
0032 0x7fffffffc490 --> 0x7fffffffc900 --> 0x7fffffffc940 --> 0x7fffffffc350 --> 0x7fffffffd350 --> 0x7fffffffe250 (--> ...)
0048 0x7fffffffc4a0 --> 0x0
0056 0x7fffffffc4a8 --> 0x7ffffffffc600 --> 0x0
Legend: code, data, rodata, value

93 bytes_ = AllocateArray(bytes_per_row_ * ysize);
gdb-peda$ p ysize
$1 = 0xffff
gdb-peda$ p bytes_per_row_
$2 = 0x40080
gdb-peda$ p bytes_per_row_ * ysize
$3 = 0x4007bff80
```





deymo commented on Aug 9, 2021 Contributor

 $Hi, on that file I see that \verb| gif->SWidth | and \verb| gif->SHeight | are reported as 65535, and the only frame is reported as 10x10 at position 0,0.$ 

I don't know what are we supposed to do differently. The way I understand this is that the virtual canvas is 65535 x 65535 white in color and there a single frame of 10x10 in the top left corner. identify -verbose poc.gif Says Page geometry: 65535x65335+0+0 but if I try to convert this to png it returns a 10x10 image.

Regarding the crash due to OOM, at the moment we have many places where we would crash if OOM instead of returning a failure.

jonsneyers commented on Nov 19, 2021

Going to close this one, it's basically a special case of #762

jonsneyers closed this as completed on Nov 19, 2021

Assignees
No one assigned

Labels
None yet

Projects
None yet

Milestone
No milestone
Development
No branches or pull requests

3 participants

