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# Assert Failure in BitStream<false>::Get #70

🔒 Closed sleिकासper opened this issue on May 18 · 1 comment

sleिकासper commented on May 18

There is an assert failure in `BitStream<false>::Get` in `bitstream.hpp`. Depending on the usage of this library, e.g., running on remote server as a service, this could cause Deny of Service attack.

- reproduce steps:

1. unzip poc.zip
2. compile libjpeg with address sanitizer enabled
3. run `jpeg ./poc /dev/null`

- poc  
[poc.zip](#)

- stack trace

```
#0 __GI_raise (sig=sig@entry=6) at ../sysdeps/unix/sysv/linux/raise.c:50
#1 0x00007ffff7054859 in __GI_abort () at abort.c:79
#2 0x00007ffff7054729 in __assert_fail_base (fmt=0x7ffff71ea588 "%s%s%s:%u: %s%sAssertion `%s'
failed.\n\n", assertion=0x5555558e3a60 "bits > 0 && bits <= 24", file=0x5555558e3a20
"./io/bitstream.hpp", line=172, function=<optimized out>) at assert.c:92
#3 0x00007ffff7066006 in __GI__assert_fail (assertion=0x5555558e3a60 "bits > 0 && bits <= 24",
file=0x5555558e3a20 "./io/bitstream.hpp", line=172, function=0x5555558e3c00 "ULONG
BitStream<bitstuffing>::Get(UBYTE) [with bool bitstuffing = false; ULONG = unsigned int; UBYTE =
unsigned char]") at assert.c:101
#4 0x00005555555b7f0d in BitStream<false>::Get (this=0x6140000003d8, bits=236 '\354') at
./io/bitstream.hpp:172
#5 0x0000555555561d294 in LosslessScan::ParseMCU (this=0x614000000260, prev=0x7ffffffffffd3f0,
top=0x7ffffffffffd3b0) at losslessscan.cpp:382
#6 0x0000555555561d928 in LosslessScan::ParseMCU (this=0x614000000260) at losslessscan.cpp:432
#7 0x0000555555561e64 in Scan::ParseMCU (this=0x60d000000130) at scan.cpp:1038
#8 0x000055555555ca6b6 in JPEG::ReadInternal (this=0x61b000000098, tags=0x7ffffffffffd850) at
jpeg.cpp:345
#9 0x000055555555c96b2 in JPEG::Read (this=0x61b000000098, tags=0x7ffffffffffd850) at jpeg.cpp:210
#10 0x000055555555aed39 in Reconstruct (infile=0x7ffffffffffe58b
"../../aflasan/fuzzrun/jpeg_out/default/crashes/id:000442,sig:06,src:005553,time:52219991,execs:24848
outfile=0x7ffffffffffe602 "/dev/null", colortrafo=1, alpha=0x0, upsample=true) at
```

reconstruct.cpp:121

#11 0x000055555559ceaa in main (argc=3, argv=0x7fffffff2c8) at main.cpp:747



thorfdbg commented on May 23

Owner

Thanks for reporting, this should be fixed in the 1.64 release.



thorfdbg closed this as completed on May 23

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#### Assignees

No one assigned

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#### Labels

None yet

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#### Projects

None yet

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#### Milestone

No milestone

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#### Development

No branches or pull requests

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2 participants

