

darktable - Bug #12494

Buffer overflow read in BitStream | [temperature] failed to read camera while balance information

12/25/2018 11:50 AM - Const A

Status: Closed: invalid	Start date: 12/25/2018
Priority: Low	Due date:
Assignee:	% Done: 0%
Category: Darkroom	Estimated time: 0.00 hour
Target version: 2.6.0	bitness: 64-bit
Affected Version: git master branch	hardware architecture: amd64/x86
System: Ubuntu	

Description

I have a problem with new darktable 2.6.0 and nikon d800 files.

When I open a file from d800 I get a message "[temperature] failed to read camera while balance information...". I've already tried to upload the image into pixls.us twice and both times there were no errors and no the file appeared on the site.

```
darktable_2.7.0_git3.802f28438_amd64.deb [rawspeed] (_DSC5199.NEF) rawspeed::RawImage rawspeed::RawDecoder::decodeRaw(), line 276: void rawspeed::BitStream<Tag, Cache>::fillSafe() [with Tag = rawspeed::MSBBitPumpTag; Cache = rawspeed::BitStreamCacheRightInLeftOut], line 134: Buffer overflow read in BitStream
```

The file is attached.

How to reproduce:

- 1) open the file attached
- 2) switch to darktable mode

actual: get the error

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```[rawspeed] (_DSC5199.NEF) rawspeed::RawImage rawspeed::RawDecoder::decodeRaw(), line 276: void rawspeed::BitStream<Tag, Cache>::fillSafe() [with Tag = rawspeed::MSBBitPumpTag; Cache = rawspeed::BitStreamCacheRightInLeftOut], line 134: Buffer overflow read in BitStream [temperature] failed to read camera white balance information from `_DSC5199.NEF'!```
```

expected: I can open the file and can process it in the darktable mode

**Related issues:**

Duplicates darktable - Bug #12208: [2/3] Regression: huffmantable is bad for ...	<b>Fixed</b>	<b>05/19/2018</b>
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## History

### #1 - 12/25/2018 12:57 PM - Roman Lebedev

Const A wrote:

I have a problem with new darktable 2.6.0 and nikon d800 files.

Was it previously modified in nikon software, or digikam?

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```
[temperature] failed to read camera white balance information from `_DSC5199.NEF'!
```

...

It seems you didn't attach it here.

expected: I can open the file and can process it in the darktable mode

#2 - 12/25/2018 01:17 PM - Const A

Roman Lebedev wrote:

Const A wrote:

I have a problem with new darktable 2.6.0 and nikon d800 files.

Was it previously modified in nikon software, or digikam?

it shouldn't, I've checked with rawtherapee - it works.

When I open a file from d800 I get a message "[temperature] failed to read camera white balance information...". I've already tried to upload the image into pixls.us twice and both times there were no errors and no the file appeared on the site.

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- 1) open the file attached
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[temperature] failed to read camera white balance information from `_DSC5199.NEF'!
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It seems you didn't attach it here.

expected: I can open the file and can process it in the darktable mode

Could you check the attached file please, I've uploaded it again.

#3 - 12/25/2018 01:20 PM - Const A

- File *_DSC5199.NEF.pp3* added

_DSC5199.NEF.pp3

#4 - 12/25/2018 01:24 PM - Const A

- File *_DSC5199.NEF.7z.001* added

- File *_DSC5199.NEF.7z.002* added

the NEF file

```
1. d1d68380623afc3349f97ab98b75c8e1 _DSC5199.NEF
   7zr x _DSC5199.NEF.7z.001
```

#5 - 12/25/2018 02:13 PM - Roman Lebedev

- *Duplicates Bug #12208: [2/3] Regression: huffmantable is bad for last decode* added

#6 - 12/25/2018 02:14 PM - Roman Lebedev

- *Status changed from New to Duplicate*

- *Affected Version changed from 1.6.0 to git master branch*

Ah, yes, that bug remains.

#7 - 12/25/2018 02:38 PM - Const A

Roman Lebedev wrote:

Ah, yes, that bug remains.

Could you send me a git branch url after when it be fixed, I'll try to build it locally and check on the several broken NEF's I have.

And it seems that the old versions of Darktable (less than 1.2) is not affected by the bug.

#8 - 12/25/2018 06:40 PM - Roman Lebedev

- *Status changed from Duplicate to Closed: invalid*

Const A wrote:

Roman Lebedev wrote:

Ah, yes, that bug remains.

Actually no, that **really** does not look like that bug.

In this file it happens not for the last pixel, but ~200 (!) pixels before that.
So best case scenario would be that it needs at **least** 200 bits to decode (in reality - more),
for which it would need to read at least ~25 bytes.

So while i can not comment on other software, or older darktable versions,
this **very** strongly looks like corrupted and/or truncated raw file.
Sorry. Perhaps you have some older copy of this file in backups?

Could you send me a git branch url after when it be fixed, I'll try to build it locally and check on the several broken NEF's I have.

And it seems that the old versions of Darktable (less than 1.2) is not affected by the bug.

#9 - 12/27/2018 10:10 AM - Const A

Hi.

Actually no, that **really** does not look like that bug.

I've checked the files and you are completely right. The problem is the broken file. I've made a test using two cards in the same time and found that one of the card contains corrupted files but for second card was all OK. So it's my fault and it was hardware problem.
Thank you so much for your help and support.

I hope the ticket should be closed.

Roman Lebedev wrote:

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And it seems that the old versions of Darktable (less than 1.2) is not affected by the bug.

Files

| | | | |
|---------------------|---------|------------|---------|
| _DSC5199.NEF.pp3 | 10.7 KB | 12/25/2018 | Const A |
| _DSC5199.NEF.7z.002 | 19.6 MB | 12/25/2018 | Const A |
| _DSC5199.NEF.7z.001 | 25 MB | 12/25/2018 | Const A |