

darktable - Bug #11581

Huffmantable is broken.

04/18/2017 11:02 AM - Roman Lebedev

Status: New	Start date: 05/19/2018
Priority: Medium	Due date:
Assignee:	% Done: 0%
Category:	Estimated time: 0.00 hour
Target version: 2.6.0	bitness: 64-bit
Affected Version: git master branch	hardware architecture: amd64/x86
System: all	
Description	
Subtasks:	
Bug # 12207: [1/3] Regression: huffmantable is just broken.	In Progress
Bug # 12208: [2/3] Regression: huffmantable is bad for last decode	Fixed
Bug # 12209: [3/3] Regression: nikon lossy after split raw support are completely broken.	Fixed
Related issues:	
Related to darktable - Bug #11889: Skulls in Darktable 2.4 lighttable on most...	Duplicate 12/30/2017
Related to darktable - Bug #12186: Unable to open some DNG-Files created by P...	New 05/06/2018

Associated revisions

Revision 359b6f29 - 06/06/2018 10:45 AM - Roman Lebedev

RawSpeed submodule update: Panasonic DC-GH5S, DC-G9 high-res raw support

Those are using new v5 Panasonic raw compression algorithm.
Which is actually dumber than what they used before.
Now, it is basically just uncompressed packed 12/14 bits.

Also, huffman table salvaging part 1.

Fixes <https://github.com/darktable-org/rawspeed/issues/126>

Refs. #11886

Refs. <https://github.com/darktable-org/rawspeed/issues/127>

Refs. #12207

Refs. #11581

Fixes #12188

History

#1 - 10/28/2017 09:50 PM - Roman Lebedev

- Duplicated by Bug #11791: Nikon D3400: failed to read camera white balance information added

#2 - 10/28/2017 09:52 PM - Roman Lebedev

Upstream issue: <https://github.com/darktable-org/rawspeed/issues/100>

#3 - 10/28/2017 10:01 PM - Roman Lebedev

- File 20151027-10431071-NIKON_1_J5.nef added

```
[rawspeed] (20151027-10431071-NIKON_1_J5.nef) void rawspeed::HuffmanTable::setCodeValues(const rawspeed::Buffer &), line 176: Corrupt Huffman. Code value 57 is bigger than 16
```

#4 - 10/28/2017 11:10 PM - Mike Romanov

- File DSC_0330_bad.NEF added

#5 - 10/29/2017 10:39 PM - Roman Lebedev

<https://discuss.pixls.us/t/nikon-a-specific-raw-sample-wanted/5483>

#6 - 11/11/2017 05:53 PM - Mike Romanov

Hello!

Can I help in solving the problem?

Maybe you will offer a ~~eruteh~~ patch, and I will test it?

Please!

#7 - 11/11/2017 06:21 PM - Roman Lebedev

Mike Romanov wrote:

Hello!

Can I help in solving the problem?

Maybe you will offer a ~~eruteh~~ patch, and I will test it?

Thanks, but i guess you want to stick to known-working 2.2.x until it is fixed.
Once i work on the patch, i will push it.

Please!

#8 - 11/11/2017 07:05 PM - Mike Romanov

Oh, i already have a lot of files processed in master branch version.
And i will wait for the result of your work.

Best regards

#9 - 11/11/2017 07:58 PM - Mike Romanov

- File *DSC_0174_good.nef* added

This is a good file. For comparison.

#10 - 11/30/2017 06:02 PM - Roman Lebedev

- File *DSC_0143.dng* added

And one more broken piece

From <https://discuss.pixls.us/t/darktable-for-windows/4966/264><https://discuss.pixls.us/t/darktable-for-windows/4966/264>

#11 - 12/24/2017 01:20 PM - Roman Lebedev

- Target version changed from 2.4.0 to 2.6.0

#12 - 01/01/2018 12:43 PM - Roman Lebedev

- Related to Bug #11889: *Skulls in Darktable 2.4 lighttable on most DNG files* added

#13 - 01/01/2018 12:51 PM - Roman Lebedev

- Duplicated by Bug #11899: *Failed to read camera white balance information from xxx.NEF on some pics from Nikon1 J1* added

#14 - 01/12/2018 01:09 PM - Roman Lebedev

- Duplicated by Bug #11923: *Unable to load white balance* added

#15 - 01/20/2018 10:53 AM - Roman Lebedev

- Duplicated by Camera Support #11949: *Nikon D5600 Raw Files >ISO 10000 not loading, white balance reading error* added

#16 - 01/27/2018 09:09 AM - Christophe Latt

- File *DSC_2102.NEF* added

Hello, i have the same problem, at this time only on few NEF files made with a Nikon D5500 and Tokina 11-16mm F2.8 AT-X 116 PRO DX II (is not available in the lensfun database). I can work without problems on the same file with darktable 2.2.5 but since 2.4.0 i have following error:

```
[rawspeed] (DSC_2102.NEF) void rawspeed::HuffmanTable::setCodeValues(const rawspeed::Buffer&), line 176: Corrupt Huffman. Code value 92 is bigger than 16
[temperature] failed to read camera white balance information from `DSC_2102.NEF'!
[temperature] `NIKON CORPORATION NIKON D5500' color matrix not found for image
```

i see the thumbnail on lighttable but get this error if i will work in the darkroom.

I have seen that several users have the same type of problem and i hope that i will be solved in the next release.

#17 - 03/03/2018 12:08 PM - Roman Lebedev

- Duplicated by Bug #12047: darktake no longer reading Nikon D5500 Photos properly added

#18 - 04/24/2018 08:16 PM - Roman Lebedev

- Duplicated by Bug #12152: Failed to read white balance information from NEF (D5500 RAW) added

#19 - 04/24/2018 09:50 PM - Roman Lebedev

- Duplicated by Bug #12153: Yet another nikon "lossy after split" raw added

#20 - 05/06/2018 05:16 PM - Roman Lebedev

- Related to Bug #12186: Unable to open some DNG-Files created by Pentax-K7 added

#21 - 05/19/2018 08:59 PM - Roman Lebedev

- Duplicated by deleted (Bug #12153: Yet another nikon "lossy after split" raw)

#22 - 05/19/2018 09:00 PM - Roman Lebedev

- Duplicated by deleted (Bug #11791: Nikon D3400: failed to read camera white balance information)

#23 - 05/19/2018 09:00 PM - Roman Lebedev

- Duplicated by deleted (Bug #11899: Failed to read camera white balance information from xxx.NEF on some pics from Nikon1 J1)

#24 - 05/19/2018 09:00 PM - Roman Lebedev

- Duplicated by deleted (Camera Support #11949: Nikon D5600 Raw Files >ISO 10000 not loading, white balance reading error)

#25 - 05/19/2018 09:00 PM - Roman Lebedev

- Duplicated by deleted (Bug #12047: darktake no longer reading Nikon D5500 Photos properly)

#26 - 05/19/2018 09:02 PM - Roman Lebedev

- Duplicated by deleted (Bug #12152: Failed to read white balance information from NEF (D5500 RAW))

#27 - 05/19/2018 09:02 PM - Roman Lebedev

- Duplicated by deleted (Bug #11923: Unable to load white balance)

Files

20151027-10431071-NIKON_1_J5.nef	24.6 MB	10/28/2017	Roman Lebedev
DSC_0330_bad.NEF	26.8 MB	10/28/2017	Mike Romanov
DSC_0174_good.nef	25.2 MB	11/11/2017	Mike Romanov
DSC_0143.dng	7.9 MB	11/30/2017	Roman Lebedev
DSC_2102.NEF	32.6 MB	01/27/2018	Christophe Latt