

Exiv2 - Bug #1334

Version 0.26 is returns unwanted data when the key value is received from RW2 files (Panasonic DMC-GF6 camera)

28 Jan 2018 12:55 - Anonymous

Status:	Closed	Start date:	28 Jan 2018
Priority:	Normal	Due date:	
Assignee:	Robin Mills	% Done:	100%
Category:	image format	Estimated time:	1.00 hour
Target version:	0.27		
Description			
Version 0.26 is returns unwanted data when the key value is received from RW2 files. Version 0.25 works fine!			
\$ exiv2 -g Exif.Photo.ISOSpeedRatings -Pt ./P1110094.rw2			
RW2 IMAGE 160			
The first line in output ' RW2 IMAGE ' is unwanted data. I expected to get only the numerical value of ISO. But, in the first line of output, I get the file type, although it is already known to me.			
This bug is only relevant for the Panasonic DMC-GF6 camera for getting any keys values. If I try to get the value of the key from the RAW file of Canon, then everything works fine!			
\$ exiv2 -g Exif.Photo.ISOSpeedRatings -Pt ./IMG_0503.CR2			
100			

History

#1 - 28 Jan 2018 13:19 - Robin Mills

Thanks for reporting this, Alex. The fix is at the beginning of `Rw2Image::printStructure()` in `src/rw2image.cpp`:

```
void Rw2Image::printStructure(std::ostream& out, PrintStructureOption option, int depth) {
    out << "RW2 IMAGE" << std::endl;
    if (io_>open() != 0) throw Error(9, io_>path(), strError());
    ...
}
```

I'll submit this fix later today. I'm very surprised that this issue was not detected by our test harness and I will also rectify that.

Are you my old buddy Alex Stepanov from Adobe Systems Incorporated in San Jose, California?

#2 - 28 Jan 2018 13:23 - Robin Mills

- Category set to image format
- Status changed from New to Assigned
- Assignee set to Robin Mills
- Target version set to 0.27
- % Done changed from 0 to 20
- Estimated time set to 1.00 h

#3 - 28 Jan 2018 14:28 - Anonymous

Thanks for the quick response!
Very glad to help! Thanks for the exiv2!
No, I'm not from Adobe Systems Incorporated in San Jose, California.

I'm a new buddy from small resort city Pyatigorsk, Russia :-)

#4 - 28 Jan 2018 16:16 - Robin Mills

Thank you for using exiv2.

Your namesake is a very famous engineer. He invented STL: https://en.wikipedia.org/wiki/Alexander_Stepanov He's also an incredibly nice and fun guy. I'm retired now. I had nothing to do with metadata when I worked at Adobe.

I'm always looking for volunteers to contribute to Exiv2. If you'd like to be involved, I'd be delighted to Welcome You to Team Exiv2.

#5 - 28 Jan 2018 16:48 - Anonymous

Thanks for a link! It was interesting to read!

Yes, Alexander Stepanov by link in wiki is a very strong programmer and engineer! To me, of course, very far from his success!

The most interesting is that he is my full namesake. I, too, Alexander Alexandrovich Stepanov!

Thank you for the invitation to participate in the Team Exiv2! Only I do not have experience working in similar projects. But, if I can be of any use, I'm ready to help! I think it will be a good practice.

#6 - 18 Sep 2018 13:30 - Robin Mills

- Status changed from Assigned to Closed

- % Done changed from 20 to 100

I believe this is fixed in Exiv2 v0.27 RC1.

```
847 rmills@rmillsmbp:~/gnu/github/exiv2/exiv2/build $ bin/exiv2 ~/Downloads/P1110094.rw2
```

```
File name      : /Users/rmills/Downloads/P1110094.rw2
File size     : 19335680 Bytes
MIME type     : image/x-panasonic-rw2
Image size    : 4816 x 3464
Camera make   : Panasonic
Camera model  : DMC-GF6
Image timestamp : 2018:01:23 19:36:42
Image number  :
Exposure time : 1/6 s
Aperture      : F5.6
Exposure bias : 0 EV
Flash        : No, compulsory
Flash bias    : 0
Focal length  : 42.0 mm (35 mm equivalent: 84.0 mm)
Subject distance:
ISO speed     : 160
Exposure mode : Aperture priority
Metering mode : Multi-segment
Macro mode    : Off
Image quality : Raw
Exif Resolution :
White balance : Auto
Thumbnail     : image/jpeg, 2125 Bytes
Copyright    :
Exif comment  :
```

```
848 rmills@rmillsmbp:~/gnu/github/exiv2/exiv2/build $ bin/exiv2 -pR ~/Downloads/P1110094.rw2
RW2 IMAGE
```

```
STRUCTURE OF TIFF FILE (II): /Users/rmills/Downloads/P1110094.rw2
```

address	tag	type	count	offset	value
26	0x0001	Version	4		0320
38	0x0002	ISOSpeed	1		4816
50	0x0003	ColorMode	1		3464
62	0x0004	Quality	1		8
74	0x0005	WhiteBalance	1		8
86	0x0006	Sharpening	1		3456
98	0x0007	Focus	1		4600
110	0x0008	FlashSetting	1		1
122	0x0009	GPSSStatus	1		2
134	0x000a	0x000a	1		12
146	0x000b	ProcessingSoftware	1		34316
158	0x000d	GPSSpeed	1		1
170	0x000e	GPSTrackRef	1		4095
182	0x000f	ISOSelection	1		4095
194	0x0010	DataDump	1		4095
206	0x0017	GPSDestBearingRef	1		160
218	0x0018	GPSDestBearing	1		256

```

230 | 0x0019 GPSDestDistanceRef | SHORT | 1 | 256
242 | 0x001a GPSDestDistance | SHORT | 1 | 256
254 | 0x001b GPSProcessingMethod | UNDEFINED | 42 | 558 | ..d.....
. . . . .
266 | 0x001c GPSAreaInformation | SHORT | 1 | 128
278 | 0x001d GPSDateStamp | SHORT | 1 | 128
290 | 0x001e GPSDifferential | SHORT | 1 | 128
302 | 0x0024 | SHORT | 1 | 667
314 | 0x0025 | SHORT | 1 | 265
326 | 0x0026 | SHORT | 1 | 402
338 | 0x0027 | UNDEFINED | 58 | 600 | ....P.....w.....p.
.....
350 | 0x0029 | UNDEFINED | 36 | 658 | .....
.....
362 | 0x002a | UNDEFINED | 32 | 694 | .....
.....
374 | 0x002b | UNDEFINED | 16 | 726 | .....
386 | 0x002c | UNDEFINED | 72 | 742 | .....
.....
398 | 0x002d | SHORT | 1 | 4
410 | 0x002e | UNDEFINED | 262656 | 2048 | .....Exif..II*.....
.....
422 | 0x010f Make | ASCII | 10 | 814 | Panasonic
434 | 0x0110 Model | ASCII | 8 | 824 | DMC-GF6
446 | 0x0111 StripOffsets | LONG | 1 | 4294967295
458 | 0x0112 Orientation | SHORT | 1 | 1
470 | 0x0116 RowsPerStrip | SHORT | 1 | 3464
482 | 0x0117 StripByteCounts | LONG | 1 | 0
494 | 0x0118 | LONG | 1 | 264704
506 | 0x0119 | UNDEFINED | 32 | 832 | t".....6.
..P...
518 | 0x011a XResolution | SHORT | 1 | 2
530 | 0x011b YResolution | UNDEFINED | 64 | 864 | .....g.....y.....H...
.....
542 | 0x8769 ExifTag | LONG | 1 | 928
STRUCTURE OF TIFF FILE (II): /Users/rmills/Downloads/P1110094.rw2
address | tag | type | count | offset | value
930 | 0x829a ExposureTime | RATIONAL | 1 | 1078 | 10/60
942 | 0x829d FNumber | RATIONAL | 1 | 1086 | 56/10
954 | 0x8822 ExposureProgram | SHORT | 1 | 3
966 | 0x9000 ExifVersion | UNDEFINED | 4 | 0230
978 | 0x9003 DateTimeOriginal | ASCII | 20 | 1094 | 2018:01:23 19:36:42
990 | 0x9004 DateTimeDigitized | ASCII | 20 | 1114 | 2018:01:23 19:36:42
1002 | 0x9204 ExposureBiasValue | SRATIONAL | 1 | 1134 | 0/100
1014 | 0x9205 MaxApertureValue | RATIONAL | 1 | 1142 | 1273/256
1026 | 0x9207 MeteringMode | SHORT | 1 | 5
1038 | 0x9209 Flash | SHORT | 1 | 16
1050 | 0x920a FocalLength | RATIONAL | 1 | 1150 | 420/10
1062 | 0xa300 FileSource | UNDEFINED | 1 | .
END /Users/rmills/Downloads/P1110094.rw2
END /Users/rmills/Downloads/P1110094.rw2
849 rmills@rmillsmbp:~/gnu/github/exiv2/exiv2/build $ bin/exiv2 -pa ~/Downloads/P1110094.rw2
Exif.PanasonicRaw.Version Undefined 4 3.20
Exif.PanasonicRaw.SensorWidth Short 1 4816
Exif.PanasonicRaw.SensorHeight Short 1 3464
Exif.PanasonicRaw.SensorTopBorder Short 1 8
Exif.PanasonicRaw.SensorLeftBorder Short 1 8
Exif.PanasonicRaw.ImageHeight Short 1 3456
Exif.PanasonicRaw.ImageWidth Short 1 4600
Exif.PanasonicRaw.ISOSpeed Short 1 160
Exif.PanasonicRaw.WBRedLevel Short 1 667
Exif.PanasonicRaw.WBGreenLevel Short 1 265
Exif.PanasonicRaw.WBBlueLevel Short 1 402
Exif.PanasonicRaw.PreviewImage Undefined 262656 (Binary value suppressed)
Exif.PanasonicRaw.Make Ascii 10 Panasonic
Exif.PanasonicRaw.Model Ascii 8 DMC-GF6
Exif.PanasonicRaw.StripOffsets Long 1 4294967295
Exif.PanasonicRaw.Orientation Short 1 top, left
Exif.PanasonicRaw.RowsPerStrip Short 1 3464
Exif.PanasonicRaw.StripByteCounts Long 1 0
Exif.PanasonicRaw.RawDataOffset Long 1 264704
Exif.PanasonicRaw.ExifTag Long 1 928
Exif.Photo.ExposureTime Rational 1 1/6 s
Exif.Photo.FNumber Rational 1 F5.6
Exif.Photo.ExposureProgram Short 1 Aperture priority

```



```

Exif.Panasonic.Landmark                Undefined 128
Exif.Panasonic.IntelligentResolution   Byte      1 Standard
Exif.Panasonic.BurstSheed              Short     1 0
Exif.Panasonic.IntelligentDRange       Short     1 Standard
Exif.Panasonic.ClearRetouch            Short     1 Off
Exif.Panasonic.City2                   Undefined 72
Exif.Panasonic.PhotoStyle              Short     1 Natural
Exif.Panasonic.ShadingCompensation     Short     1 On
Exif.Panasonic.AccelerometerZ          Short     1 252
Exif.Panasonic.AccelerometerX          Short     1 -12
Exif.Panasonic.AccelerometerY          Short     1 20
Exif.Panasonic.SweepPanoramaDirection Byte      1 Off
Exif.Panasonic.PanoramaFieldOfView     Short     1 0
Exif.Panasonic.TimerRecording           Byte      1 Off
Exif.Panasonic.InternalNDFilter        Rational  1 0/128
Exif.Panasonic.HDR                     Short     1 Off
Exif.Panasonic.ClearRetouchValue        Rational  1 0/0
Exif.Panasonic.TouchAE                 Short     1 Off
Exif.Panasonic.MakerNoteVersion         Undefined 4 1.44
Exif.Panasonic.FlashFired              Short     1 No
Exif.Panasonic.TextStamp3              Short     1 Off
Exif.Panasonic.TextStamp4              Short     1 Off
Exif.Panasonic.BabyAge2                Ascii     20 not set
Exif.Photo.FlashpixVersion              Undefined 4 1.00
Exif.Photo.InteroperabilityTag          Long      1 13356
Exif.Iop.InteroperabilityIndex          Ascii     4 R98
Exif.Iop.InteroperabilityVersion        Undefined 4 1.00
Exif.Photo.SensingMethod                Short     1 One-chip color area
Exif.Photo.ExposureMode                 Short     1 Auto
Exif.Photo.WhiteBalance                 Short     1 Auto
Exif.Photo.FocalLengthIn35mmFilm        Short     1 84.0 mm
Exif.Thumbnail.Compression              Short     1 JPEG (old-style)
Exif.Thumbnail.Orientation              Short     1 top, left
Exif.Thumbnail.XResolution              Rational  1 180
Exif.Thumbnail.YResolution              Rational  1 180
Exif.Thumbnail.ResolutionUnit           Short     1 inch
Exif.Thumbnail.JPEGInterchangeFormat    Long      1 14836
Exif.Thumbnail.JPEGInterchangeFormatLength Long      1 2125
Exif.Thumbnail.YCbCrPositioning         Short     1 Co-sited
850 rmills@rmillsmbp:~/gnu/github/exiv2/exiv2/build $

```

Files

P1110094.rw2	18.4 MB	28 Jan 2018	Anonymous
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