

## Exiv2 - Patch #1223

### Decoding ShutterCount for Pentax images

09 Sep 2016 08:15 - Robin Mills

<b>Status:</b>	Closed	<b>Start date:</b>	09 Sep 2016
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Robin Mills	<b>% Done:</b>	100%
<b>Category:</b>	makernote	<b>Estimated time:</b>	2.00 hours
<b>Target version:</b>	0.26		
<b>Description</b>			
<a href="http://dev.exiv2.org/boards/3/topics/2729">http://dev.exiv2.org/boards/3/topics/2729</a>			

#### Associated revisions

##### Revision 4477 - 09 Sep 2016 08:26 - Robin Mills

#1223 Thank you to Alexey for reporting this and providing the patch.

##### Revision 4478 - 09 Sep 2016 10:04 - Robin Mills

#1223 Correction to r4477 to fix Cygwin build breaker. #include <csdint> demands C++11 support on GCC 4.9.3 on the buildserver. Code compiles without csdint and iomanip

#### History

##### #1 - 09 Sep 2016 08:46 - Robin Mills

Firstly. I would like to thank Alexey for reporting this and providing the patch. A good job. Thank You, Alexey.

I have no idea what ShutterCount is. So I'm accepting Alexey's code in good faith. For sure it has made a difference and has not broken the test suite.

```
592 rmills@rmillsmm:~/gnu/exiv2/ttt $ exiv2 -vVg svn ; exiv2 -pa --grep Shutter /Users/rmills/jenkins/testfiles/992/pentax/*.DNG /Users/rmills/jenkins/testfiles/992/pentax/*.PEF
exiv2 0.25 001900 (64 bit build)
svn=4476
/Users/rmills/jenkins/testfiles/992/pentax/RAW_PENTAX_K-R.DNG Exif.PentaxDng.ShutterCount Un
defined 4 245 27 195 71
/Users/rmills/jenkins/testfiles/992/pentax/RAW_PENTAX_K30.DNG Exif.PentaxDng.ShutterCount Un
defined 4 240 27 195 147
/Users/rmills/jenkins/testfiles/992/pentax/RAW_PENTAX_K50.DNG Exif.PentaxDng.ShutterCount Un
defined 4 232 15 214 204
/Users/rmills/jenkins/testfiles/992/pentax/RAW_PENTAX_K-3-II.PEF Exif.PentaxDng.ShutterCount
Undefined 4 234 57 226 253
/Users/rmills/jenkins/testfiles/992/pentax/RAW_PENTAX_K-7.PEF Exif.Pentax.ShutterCount Un
defined 4 247 5 247 15
/Users/rmills/jenkins/testfiles/992/pentax/RAW_PENTAX_K-m.PEF Exif.Pentax.ShutterCount Un
defined 4 245 47 215 29
/Users/rmills/jenkins/testfiles/992/pentax/RAW_PENTAX_K100.PEF Exif.Pentax.ShutterCount U
ndefined 4 245 60 152 79
/Users/rmills/jenkins/testfiles/992/pentax/RAW_PENTAX_K5.PEF Exif.Pentax.ShutterCount Und
efined 4 237 51 235 101
/Users/rmills/jenkins/testfiles/992/pentax/RAW_PENTAX_K5IIS.PEF Exif.Pentax.ShutterCount
Undefined 4 234 14 219 37
/Users/rmills/jenkins/testfiles/992/pentax/RAW_PENTAX_KX.PEF Exif.Pentax.ShutterCount Und
efined 4 237 57 227 37
/Users/rmills/jenkins/testfiles/992/pentax/RAW_PENTAX_STAR_DL2.PEF Exif.Pentax.ShutterCount
Undefined 4 243 45 204 151
593 rmills@rmillsmm:~/gnu/exiv2/ttt $
```

```
625 rmills@rmillsmm:~/gnu/exiv2/trunk $ exiv2 -vVg svn ; exiv2 -pa --grep Shutter /Users/rmills/jenkins/testfiles/992/pentax/*.DNG /Users/rmills/jenkins/testfiles/992/pentax/*.PEF
exiv2 0.25 001900 (64 bit build)
svn=4477
/Users/rmills/jenkins/testfiles/992/pentax/RAW_PENTAX_K-R.DNG Exif.PentaxDng.ShutterCount Un
defined 4 12991
/Users/rmills/jenkins/testfiles/992/pentax/RAW_PENTAX_K30.DNG Exif.PentaxDng.ShutterCount Un
defined 4 115
/Users/rmills/jenkins/testfiles/992/pentax/RAW_PENTAX_K50.DNG Exif.PentaxDng.ShutterCount Un
```

```

defined 4 554
/Users/rmills/jenkins/testfiles/992/pentax/RAW_PENTAX_K-3-II.PEF Exif.PentaxDng.ShutterCount
Undefined 4 1
/Users/rmills/jenkins/testfiles/992/pentax/RAW_PENTAX_K-7.PEF Exif.Pentax.ShutterCount Un
defined 4 2017
/Users/rmills/jenkins/testfiles/992/pentax/RAW_PENTAX_K-m.PEF Exif.Pentax.ShutterCount Un
defined 4 236
/Users/rmills/jenkins/testfiles/992/pentax/RAW_PENTAX_K100.PEF Exif.Pentax.ShutterCount U
ndefined 4 24757
/Users/rmills/jenkins/testfiles/992/pentax/RAW_PENTAX_K5.PEF Exif.Pentax.ShutterCount Und
efined 4 150
/Users/rmills/jenkins/testfiles/992/pentax/RAW_PENTAX_K5IIS.PEF Exif.Pentax.ShutterCount
Undefined 4 3544
/Users/rmills/jenkins/testfiles/992/pentax/RAW_PENTAX_KX.PEF Exif.Pentax.ShutterCount Und
efined 4 3542
/Users/rmills/jenkins/testfiles/992/pentax/RAW_PENTAX_STAR_DL2.PEF Exif.Pentax.ShutterCount
Undefined 4 1635
626 rmills@rmillsmm:~/gnu/exiv2/trunk $

```

I've also made some minor formatting changes to the code. In particular, I've removed Author and other credits as that information is stored in SVN.

I've extracted the metadata from one PEF and one DNG and added them to the test suite:

```

626 rmills@rmillsmm:~/gnu/exiv2/trunk $ dir test/data/RAW*
-rw-r--r--+ 1 rmills staff 59K 9 Sep 09:13 test/data/RAW_PENTAX_K100.exv
-rw-r--r--+ 1 rmills staff 9.2K 9 Sep 09:12 test/data/RAW_PENTAX_K30.exv
627 rmills@rmillsmm:~/gnu/exiv2/trunk $

```

And lastly, thanks to Alexey for fixing the unused variable in *easyaccess.cpp*. Perhaps I should have opened another issue to deal with that, however I have not done this to save my time.

## #2 - 09 Sep 2016 10:45 - Robin Mills

- Status changed from Assigned to Closed
- % Done changed from 80 to 100

I am closing this issue as it has successfully built on M/L/Cygwin/MinGW and Visual Studio.

<http://exiv2.dyndns.org:8080/job/Exiv2-trunk/2619/>

There's a lot of grumbling coming from the test suite concerning WebP, ICC and other stuff which isn't related to this issue. The trunk builds and passes OK when I build manually (on my laptop and/or buildserver desktop). I'm undertaking buildserver maintenance at the moment to start publishing a daily build for MinGW/32. I'll investigate and fix the buildserver. These buildserver/test issues have nothing to do with the changes submitted in this issue.