

Exiv2 - Bug #558

"Warning: JPEG format error, rc = 5" for most of my JPEG files

13 Jun 2008 16:13 - mhx -

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:	Andreas Huggel	% Done:	0%
Category:	jpeg parser	Estimated time:	0.00 hour
Target version:	0.17.1		
Description			
For most images taken with my Sony A700 I'm getting the above warning. The reason is that the SOF segment can completely confuse the parser as it doesn't adjust the file pointer for that segment. (I.e. it will read over the segment boundary and may or may not sync afterwards.)			
Additional information:			
The attached patch fixes the problem.			

History

#1 - 14 Jun 2008 01:43 - Andreas Huggel

Thanks for the report and patch.

Could you attach a sample image as well?

(I downloaded one from dpreview.com but that works fine and my internet connection is currently so ridiculously slow that it doesn't make sense to keep trying)

#2 - 14 Jun 2008 03:06 - mhx -

I'd love to, but the smallest image I could find is still 5.5 MB, which appears to be too large to handle for the bugtracker.

You can grab the image from:

<http://mhx.dyndns.org/pics/dsc00025.jpg>

#3 - 14 Jun 2008 05:39 - mhx -

Also, this issue makes batch processing files incredibly slow, as the code usually jumps past the SOS marker after the SOF segment and gets lost in the compressed image data. So it scans the whole file instead of exiting just after discovery of the SOS marker.

```
mhx@r2d2 ~/data/images/2008-06-11 $ time ~/src/c/test/exiv2-0.17/src/exiv2 *.jpg >/dev/null 2>&1
```

```
real 0m21.170s
user 0m0.990s
sys 0m0.680s
```

```
mhx@r2d2 ~/data/images/2008-06-11 $ time ~/src/c/test/exiv2-0.17-mhx/src/exiv2 *.jpg >/dev/null 2>&1
```

```
real 0m3.176s
user 0m0.330s
sys 0m0.050s
```

I did flush the filesystem cache before each run, the timings are reproducible. So that's almost a slowdown by a factor of 7, which makes a huge difference in applications that always scan the whole image folder.

#4 - 14 Jun 2008 06:42 - Andreas Huggel

[r1503](#)

#5 - 14 Jun 2008 06:47 - Andreas Huggel

This fix will be part of 0.17.1 to be released within the next few days.

I usually mention all contributors by name in the ChangeLog (w/o email address). Please let me know how I should refer to you in the ChangeLog.

Thanks,
Andreas

Files

exiv2-0.17-jpg-sof-fix.diff	562 Bytes	13 Jun 2008	Redmine Admin
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