

## Exiv2 - Bug #930

### Macports 2.2: Digikam 3.5 corrupts metadata of JPG, TIFF, PNG images ( libexif @0.6.21\_0)

25 Oct 2013 03:18 - Martin Möck

<b>Status:</b>	Closed	<b>Start date:</b>	25 Oct 2013
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Robin Mills	<b>% Done:</b>	100%
<b>Category:</b>	metadata	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	0.25		

#### Description

According to the advice of the developer of digikam, I post my problem here again. It is NOT reproduceable under Linux.  
[https://bugs.kde.org/show\\_bug.cgi?id=326580](https://bugs.kde.org/show_bug.cgi?id=326580)

After the update to digikam 3.5 and a digikam maintainance rescan pictures->database (SQLite) 150 GB pictures are corrupted: Finder/quicklookd, Preview and Photoshop Elements 8 are crashing with error EXC\_BREAKPOINT (SIGTRAP), when I open any picture with Finder/Quicklook or via Open-dialog of PSE. Raw and PDF pictures are not affected.

Solution on jpeg pictures is to stripe exif data with a tool like <http://imageoptim.com/>  
After that, I can open the pictures in Quicklook, PSE, Preview again - but all the exif data is gone.

One corrupted picture is attached.

Reproducible: Always

Steps to Reproduce: better try not to reproduce the bug, unless you have a backup of your pictures

1. update macports digikam to version 3.5
2. run maintainance + sync pictures with database. In the digikam preferences / Metadata / Write this information to the metadata / every checkbox is checked. In Reading and writing metadata prefs nothing is checked. (see screenshot attached)

After the sync is done,

3. try to preview a picture in MacOS X Finder/Quicklook by pressing space bar or
4. go to Photoshop Elements / open / choose any image digikam can write corrupted metadata to: jpg, tiff, png. Sigma raw files (X3F) and PDF are not affected
5. go to Apple preview and try to open a jpg picture - it crashes
6. GIMP 2.8.6 Macports version crashes NOT

The following ports are currently installed:

aalib @1.4rc5\_4 (active)  
akonadi @1.10.2\_0+mysql5 (active)  
aspell @0.60.6.1\_0 (active)  
aspell-dict-en @7.1\_0 (active)  
at-spi2-atk @2.10.0\_0 (active)  
at-spi2-core @2.10.1\_0 (active)  
atk @2.10.0\_0 (active)  
attica @0.4.2\_0 (active)  
autoconf @2.69\_2 (active)  
automake @1.14\_0 (active)  
automoc @0.9.88\_4 (active)  
avahi @0.6.31\_9+gtk+gtk3+python27+x11 (active)  
babl @0.1.10\_0 (active)  
bison @2.7.1\_0 (active)  
boehmgc @7.2d\_0 (active)  
boost @1.54.0\_0+no\_single+no\_static+python27 (active)  
bzip2 @1.0.6\_0 (active)  
cairo @1.12.16\_1+x11 (active)  
cfitsio @3.340\_0 (active)  
clang-3.3 @3.3\_1+analyzer+python27 (active)  
clang\_select @0.1\_0 (active)  
clucene @2.3.3.4\_0 (active)  
cmake @2.8.12\_0 (active)  
coreutils @8.21\_0 (active)

cppunit @1.12.1\_0 (active)  
curl @7.33.0\_0+ssl (active)  
curl-ca-bundle @7.33.0\_0 (active)  
cyrus-sasl2 @2.1.25\_4+kerberos (active)  
db46 @4.6.21\_8 (active)  
db\_select @0.1\_2 (active)  
dbus @1.6.12\_0+startupitem (active)  
dbus-glib @0.100.2\_0 (active)  
dbus-python27 @0.84.0\_0 (active)  
dbusmenu-qt @0.9.2\_0 (active)  
dcraw @9.19-20130617020400\_0 (active)  
desktop-file-utils @0.15\_1 (active)  
digikam @3.5.0\_0 (active)  
dirac @1.0.2\_1 (active)  
djvulibre @3.5.25\_6 (active)  
docbook-xml @5.0\_2 (active)  
docbook-xml-4.1.2 @5.0\_1 (active)  
docbook-xml-4.2 @5.0\_1 (active)  
docbook-xml-4.3 @5.0\_1 (active)  
docbook-xml-4.4 @5.0\_1 (active)  
docbook-xml-4.5 @5.0\_1 (active)  
docbook-xml-5.0 @5.0\_1 (active)  
docbook-xsl @1.78.1\_0 (active)  
docbook-xsl-ns @1.76.1\_0 (active)  
doxygen @1.8.5\_1 (active)  
eggdbus @0.6\_1 (active)  
eigen3 @3.2.0\_0+cmake (active)  
enca @1.13\_0 (active)  
enchant @1.6.0\_1 (active)  
exiv2 @0.23\_0 (active)  
expat @2.1.0\_0 (active)  
ffmpeg @2.0.2\_0+gpl2 (active)  
fftw-3 @3.3.3\_3 (active)  
flac @1.3.0\_0 (active)  
flex @2.5.37\_1 (active)  
fontconfig @2.11.0\_0 (active)  
freetype @2.5.0\_1 (active)  
fribidi @0.19.5\_0 (active)  
gawk @4.0.2\_0 (active)  
gconf @2.32.4\_2+x11 (active)  
gd2 @2.1.0\_3+x11 (active)  
gdbm @1.10\_2 (active)  
gdk-pixbuf2 @2.30.0\_0+x11 (active)  
gegl @0.2.0\_9+python27 (active)  
geoclue @0.12.99\_3 (active)  
gettext @0.18.3.1\_1 (active)  
ghostscript @9.10\_0  
ghostscript @9.10\_1+x11 (active)  
giflib @4.2.3\_0+x11 (active)  
gimp @2.8.6\_0 (active)  
gimp-app @2.8.2\_1 (active)  
gimp-help-en @2.8.0\_0+python27 (active)  
gimp-jp2 @2.2.0\_6 (active)  
gimp-lqr-plugin @0.7.2\_0 (active)  
gimp2 @2.8.6\_3+help\_browser+python27 (active)  
glib-networking @2.38.0\_0 (active)  
glib2 @2.38.1\_0 (active)  
gmake @3.82\_0 (active)  
gmic @1.5.0.8\_5 (active)  
gmp @5.1.2\_0 (active)  
gnome-doc-utils @0.20.10\_0+python27 (active)  
gnome-keyring @2.32.1\_0 (active)  
gnome-mime-data @2.18.0\_3 (active)  
gnome-vfs @2.24.4\_1 (active)  
gnupg @1.4.14\_0 (active)  
gnutls @3.1.10\_1 (active)  
gobject-introspection @1.38.0\_1 (active)

gpgme @1.4.2\_0 (active)  
gpsd @3.5\_3 (active)  
grantlee @0.3.0\_0 (active)  
GraphicsMagick @1.3.18\_0+q8 (active)  
graphite2 @1.2.3\_0 (active)  
gsettings-desktop-schemas @3.8.2\_0 (active)  
gstreamer1 @1.0.9\_0 (active)  
gstreamer1-gst-plugins-base @1.0.9\_0 (active)  
gtk-doc @1.18\_0+python27 (active)  
gtk-nodoka-engine @0.7.5\_3 (active)  
gtk2 @2.24.22\_0+x11 (active)  
gtk3 @3.10.1\_0+x11 (active)  
gtkimageview @1.6.4\_5 (active)  
gutenprint @5.2.9\_1 (active)  
harfbuzz @0.9.22\_0 (active)  
harfbuzz-icu @0.9.22\_0 (active)  
help2man @1.43.3\_0 (active)  
hicolor-icon-theme @0.12\_0 (active)  
hunspell @1.3.2\_0 (active)  
icns-gimp @0.1\_1 (active)  
icu @51.2\_1 (active)  
ilmbase @1.0.2\_0 (active)  
ImageMagick @6.8.7-0\_0+x11  
ImageMagick @6.8.7-2\_0+x11 (active)  
intltool @0.50.2\_2+perl5\_12 (active)  
iso-codes @3.43\_0 (active)  
jack @0.121.3\_0 (active)  
jasper @1.900.1\_10 (active)  
jbig2dec @0.11\_1 (active)  
jbigkit @2.0\_2 (active)  
jpeg @9\_1 (active)  
kactivities @4.11.2\_0 (active)  
kde-l10n-de @4.11.2\_0 (active)  
kde4-baseapps @4.11.2\_0 (active)  
kde4-runtime @4.11.2\_0 (active)  
kdeartwork @4.11.2\_0 (active)  
kdelibs4 @4.11.2\_0+docs (active)  
kdepimlibs4 @4.11.2\_0 (active)  
kerberos5 @1.11.3\_0 (active)  
krusader @2.0.0\_1 (active)  
lame @3.99.5\_0 (active)  
lcms @1.19\_5 (active)  
lcms2 @2.4\_2 (active)  
ld64 @127.2\_6+llvm33 (active)  
lensfun @0.2.8\_0 (active)  
libart\_lgpl @2.3.21\_0 (active)  
libass @0.10.1\_0 (active)  
libassuan @2.1.1\_0 (active)  
libbluray @0.3.0\_0 (active)  
libbonobo @2.32.1\_1 (active)  
libbonoboui @2.24.5\_7+x11 (active)  
libcanberra @0.30\_3+x11 (active)  
libcomerr @1.42.7\_2 (active)  
libcroco @0.6.8\_0 (active)  
libdaemon @0.14\_0 (active)  
libdmtx @0.7.2\_5 (active)  
libedit @20121213-3.0\_0 (active)  
libexif @0.6.21\_0 (active)  
libffi @3.0.13\_0 (active)  
libgcrypt @1.5.3\_0 (active)  
libglade2 @2.6.4\_7 (active)  
libgnome @2.32.1\_0 (active)  
libgnome-keyring @2.32.0\_0 (active)  
libgnomecanvas @2.30.3\_4 (active)  
libgnomeui @2.24.5\_10+x11 (active)  
libgpg-error @1.12\_0 (active)  
libgphoto2 @2.5.2\_1 (active)

libgpod @0.8.0\_11+python27 (active)  
libgsf @1.14.28\_0 (active)  
libical @0.43\_1 (active)  
libiconv @1.14\_0 (active)  
libidl @0.8.14\_2 (active)  
libidn @1.26\_0 (active)  
libiodbc @3.52.8\_4+x11 (active)  
libkdcraw @4.11.2\_0 (active)  
libkdeedu @4.11.2\_0 (active)  
libkexiv2 @4.11.2\_0 (active)  
libkipi @4.11.2\_0 (active)  
libksane @4.11.2\_0 (active)  
liblqr @1-0.4.2\_0 (active)  
libmng @1.0.10\_3 (active)  
libmodplug @0.8.8.4\_0 (active)  
libogg @1.3.1\_0 (active)  
libopenraw @0.0.9\_3 (active)  
libopus @1.0.3\_0 (active)  
libpaper @1.1.24\_0 (active)  
libpixmap @0.30.2\_0 (active)  
libplist @1.10\_0+python27 (active)  
libpng @1.5.17\_0 (active)  
libproxy @0.4.11\_1+python27 (active)  
libsvg @2.36.4\_2 (active)  
libsamplerate @0.1.8\_0 (active)  
libsdl @1.2.15\_3+x11 (active)  
libsecret @0.16\_0 (active)  
libsndfile @1.0.25\_0 (active)  
libsoup @2.44.1\_0 (active)  
libspiro @20071029\_0 (active)  
libssh @0.5.5\_0 (active)  
libtasn1 @2.11\_0 (active)  
libtheora @1.1.1\_1 (active)  
libtool @2.4.2\_3 (active)  
libusb @1.0.9\_0  
libusb @1.0.17\_0 (active)  
libusb-compat @0.1.4\_0 (active)  
libvorbis @1.3.3\_0 (active)  
libvpx @1.2.0\_1 (active)  
libwmf @0.2.8.4\_7 (active)  
libxml2 @2.9.1\_0 (active)  
libxslt @1.1.28\_0 (active)  
llvm-3.3 @3.3\_1 (active)  
llvm\_select @0.2\_0 (active)  
lua @5.2.2\_1 (active)  
lzo2 @2.06\_0 (active)  
m4 @1.4.16\_0 (active)  
macclipboard-gimp @0.7\_0 (active)  
macfile-gimp @0.1\_0 (active)  
marble @4.11.2\_0 (active)  
mesa @8.0.4\_2+python27 (active)  
mhash @0.9.9.9\_0 (active)  
mpfr @3.1.1-p2\_0 (active)  
mysql5 @5.1.72\_0 (active)  
mysql5-server @5.1.72\_0 (active)  
ncurses @5.9\_2 (active)  
nepomuk-core @4.11.2\_0 (active)  
nepomuk-widgets @4.11.2\_0 (active)  
net-snmp @5.7.2\_0 (active)  
nettle @2.6\_1 (active)  
nosetests\_select @0.1\_0 (active)  
opencv @2.4.6.1\_2 (active)  
openexr @1.7.0\_0 (active)  
openjpeg @2.0.0\_0 (active)  
openjpeg15 @1.5.0\_0 (active)  
openldap @2.4.31\_3 (active)  
openslp @1.2.1\_2 (active)

openssl @1.0.1e\_1 (active)  
orbit2 @2.14.19\_2 (active)  
orc @0.4.17\_0 (active)  
oxygen-icons @4.11.2\_0 (active)  
p5.12-getopt-long @2.400.0\_0 (active)  
p5.12-locale-gettext @1.50.0\_7 (active)  
p5.12-pathtools @3.330.0\_3 (active)  
p5.12-scalar-list-utils @1.270.0\_3 (active)  
p5.12-xml-parser @2.400.0\_4 (active)  
p11-kit @0.20.1\_0 (active)  
pango @1.36.0\_0+x11 (active)  
pcre @8.33\_0 (active)  
perl5 @5.12.4\_0+perl5\_12 (active)  
perl5.12 @5.12.4\_2 (active)  
phonon @4.6.0\_1 (active)  
pkgconfig @0.28\_0 (active)  
policykit @0.104\_1 (active)  
poppler @0.24.2\_0 (active)  
poppler-data @0.4.6\_0 (active)  
popt @1.16\_0 (active)  
prison @1.0\_0 (active)  
pth @2.0.7\_0 (active)  
py27-cairo @1.10.0\_2+x11 (active)  
py27-gdbm @2.7.5\_0 (active)  
py27-gobject @2.28.6\_0 (active)  
py27-libxml2 @2.9.1\_0 (active)  
py27-mutagen @1.21\_0 (active)  
py27-nose @1.3.0\_0 (active)  
py27-numpy @1.7.1\_0 (active)  
py27-pygtk @2.24.0\_1+x11 (active)  
py27-setuptools @1.1.6\_0 (active)  
python27 @2.7.5\_1 (active)  
python\_select @0.3\_2 (active)  
qca @2.0.3\_1 (active)  
qimageblitz @0.0.6\_0 (active)  
qjson @0.7.1\_1 (active)  
qrencode @3.1.1\_2 (active)  
qt4-mac @4.8.5\_0 (active)  
qt4-mac-mysql5-plugin @4.8.5\_0 (active)  
qt4-mac-sqlite3-plugin @4.8.5\_0 (active)  
raptor2 @2.0.8\_0 (active)  
rarian @0.8.1\_0 (active)  
rasqal @0.9.29\_0 (active)  
readline @6.2.000\_0 (active)  
redland @1.0.15\_0+db46 (active)  
sane-backends @1.0.22\_4 (active)  
schroedinger @1.0.11\_0 (active)  
scons @2.3.0\_0 (active)  
shared-desktop-ontologies @0.11.0\_0 (active)  
shared-mime-info @1.2\_0 (active)  
soprano @2.9.3\_0 (active)  
speex @1.2rc1\_0 (active)  
sqlite3 @3.8.0.2\_0 (active)  
strigi @0.7.7\_5 (active)  
swig @2.0.10\_0 (active)  
swig-python @2.0.10\_0 (active)  
taglib @1.8\_0 (active)  
tcp\_wrappers @20\_2 (active)  
texi2html @5.0\_0 (active)  
texinfo @4.13\_2 (active)  
tiff @4.0.3\_1 (active)  
ufraw @0.19.2\_0 (active)  
urw-fonts @1.0.7pre44\_0 (active)  
vala @0.20.1\_0 (active)  
virtuoso @7.0.0\_0 (active)  
w3m @0.5.3\_2 (active)  
webkit-gtk @2.0.4\_1+video (active)

webp @0.3.1\_0 (active)  
x264 @20130327\_0 (active)  
Xft2 @2.3.1\_0 (active)  
xmlcatmgr @2.2\_1 (active)  
xorg-compositeproto @0.4.2\_0 (active)  
xorg-damageproto @1.2.1\_0 (active)  
xorg-dri2proto @2.8\_0 (active)  
xorg-ewieproto @1.1.1\_0 (active)  
xorg-fixesproto @5.0\_0 (active)  
xorg-glxproto @1.4.16\_0 (active)  
xorg-inputproto @2.3\_0 (active)  
xorg-kbproto @1.0.6\_0 (active)  
xorg-libice @1.0.8\_0 (active)  
xorg-libpthread-stubs @0.3\_0 (active)  
xorg-libsm @1.2.1\_0 (active)  
xorg-libX11 @1.6.2\_0 (active)  
xorg-libXau @1.0.8\_0 (active)  
xorg-libxcb @1.9.1\_0+python27 (active)  
xorg-libXcomposite @0.4.4\_0 (active)  
xorg-libXcursor @1.1.14\_0 (active)  
xorg-libXdamage @1.1.4\_0 (active)  
xorg-libXdmcp @1.1.1\_0 (active)  
xorg-libXevie @1.0.3\_0 (active)  
xorg-libXext @1.3.2\_0 (active)  
xorg-libXfixes @5.0.1\_0 (active)  
xorg-libXi @1.7.2\_0 (active)  
xorg-libXinerama @1.1.3\_0 (active)  
xorg-libXmu @1.1.2\_0 (active)  
xorg-libXrandr @1.4.2\_0 (active)  
xorg-libXt @1.1.4\_0 (active)  
xorg-libXtst @1.2.2\_0 (active)  
xorg-randrproto @1.4.0\_0 (active)  
xorg-recordproto @1.14.2\_0 (active)  
xorg-renderproto @0.11.1\_0 (active)  
xorg-util-macros @1.17.1\_0 (active)  
xorg-xcb-protocol @1.8\_0+python27 (active)  
xorg-xcb-util @0.3.9\_0 (active)  
xorg-xextproto @7.2.1\_0 (active)  
xorg-xineramaproto @1.2.1\_0 (active)  
xorg-xproto @7.0.24\_0 (active)  
xpm @3.5.11\_0 (active)  
xrender @0.9.8\_0 (active)  
xsane @0.998\_2 (active)  
XviD @1.3.2\_3 (active)  
xz @5.0.5\_0 (active)  
yasm @1.2.0\_0 (active)  
zlib @1.2.8\_0 (active)

## History

### #1 - 25 Oct 2013 03:29 - Martin Möck

- File IMG\_7719.JPG added

I forgot the non-corruped version of the picture

### #2 - 12 Apr 2015 20:11 - Robin Mills

- Assignee set to Robin Mills

- Priority changed from Urgent to Normal

- Target version set to 0.25

I'm going to mark this as "Resolved". The issue cannot be reproduced:

```
537 rmills@rmillsmbp:~/gnu/exiv2/trunk $ ls -alt IMG_7719.jpg
-rw-r--r--+ 1 rmills  staff  5119001 12 Apr 21:07 IMG_7719.jpg
538 rmills@rmillsmbp:~/gnu/exiv2/trunk $ exiv2 -pa IMG_7719.jpg
```

```
Exif.Image.ProcessingSoftware      Ascii      14  digiKam-3.5.0
Exif.Image.Make                   Ascii       6   Canon
Exif.Image.Model                  Ascii      13   Canon EOS 5D
...
```

No crash on the trunk. I suspect a new version of DigiKam will resolve this.

### #3 - 12 Apr 2015 21:03 - Thomas Beutlich

Robin, did you try to reproduce with Macports? Issue author already said that it is not reproducible on Linux.

### #4 - 12 Apr 2015 21:16 - Robin Mills

No Thomas, I did not. I only ran the image on exiv2 on MacOS-X on the trunk. And I'm not even sure that he's using Exiv2. The bug title and the report shows "libexif @0.6.21\_0 (active)". There are two possibilities:

- 1) His version of DigiKam is using libexif and not libexiv2
- 2) He's using Exiv2 v0.21.0 which has been somehow labelled as "libexif @0.6.21\_0" v0.21 is a rather elderly version of exiv2 (about 6 years old).

So... my feeling is that he should update DigiKam. I'm running mac ports right now to install DigiKam and I'll look at this when the golf is finished.

### #5 - 12 Apr 2015 23:38 - Robin Mills

- File *DigiKam-IMG\_7719.png* added

- Status changed from *New* to *Resolved*

Well, MacPorts has build DigiKam in about 2 hours. Lots of dependencies (including exiv2 of course).

I got it to run. You have start bus:

```
620 rmills@rmillsmbp:/Applications $ launchctl load -w /Library/LaunchAgents/org.freedesktop.dbus-session.plist
t
/opt/local/Library/LaunchAgents/org.freedesktop.dbus-session.plist: Operation already in progress
621 rmills@rmillsmbp:/Applications $ ps ax | grep dbus
94908 ?? S      0:00.01 /opt/local/bin/dbus-daemon --nofork --session
95128 s000 R+    0:00.00 grep dbus
622 rmills@rmillsmbp:/Applications $
```

I think it's running. Then chown the preferences:

```
625 rmills@rmillsmbp:/Applications $ sudo chown -R rmills ~/Library/Preferences/KDE
626 rmills@rmillsmbp:/Applications $
```

And then the application magically appears in /Applications/Macports/KDE/digikam. And here's Martin's image and metadata beautifully displayed: *DigiKam-IMG\_7719.png*

For sure it's running libexiv2 v0.24

```
517 rmills@rmillsmbp:/Applications/MacPorts/KDE4/digikam.app/Contents/MacOS $ otool -L digikam | grep exiv2
/opt/local/lib/libkexiv2.11.dylib (compatibility version 11.0.0, current version 11.2.0)
518 rmills@rmillsmbp:/Applications/MacPorts/KDE4/digikam.app/Contents/MacOS $ depends digikam | grep exiv2
/opt/local/lib/libexiv2.13.dylib
/opt/local/lib/libkexiv2.11.dylib
519 rmills@rmillsmbp:/Applications/MacPorts/KDE4/digikam.app/Contents/MacOS $ exiv2 -vV | grep libexiv2
library=/usr/local/lib/libexiv2.13.dylib
520 rmills@rmillsmbp:/Applications/MacPorts/KDE4/digikam.app/Contents/MacOS $
```

I think this is a wild goose chase. The user is talking about DigiKam v3.5 and the current release is v4.8. For sure, it's time for an upgrade.

### #6 - 08 May 2015 16:25 - Robin Mills

- % Done changed from 0 to 100

### #7 - 21 Jun 2015 16:42 - Andreas Huggel

- Status changed from *Resolved* to *Closed*

## Files

File Name	Size	Date	Author
IMG_7719.jpg	4.88 MB	25 Oct 2013	Martin Möck
Digikam_Metadata_prefs.png	43.6 KB	25 Oct 2013	Martin Möck
Digikam_Maintenance_prefs.png	68.1 KB	25 Oct 2013	Martin Möck

IMG\_7719.JPG

3.24 MB

25 Oct 2013

Martin Möck

DigiKam-IMG\_7719.png

388 KB

12 Apr 2015

Robin Mills