

## Exiv2 - Bug #634

### Locking error on windows when updating a TIFF file with MemoryMapping enabled

17 May 2009 16:41 - Robin Mills

<b>Status:</b>	Closed	<b>Start date:</b>	17 May 2009
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Robin Mills	<b>% Done:</b>	100%
<b>Category:</b>	basicio	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	0.19		
<b>Description</b>			
<pre>C:\gnu.old\exiv2\msvc\bin\Debug&gt;exiv2 -a 1:00:00 ad \R.tiff Exiv2 exception in adjust action for file \R.tiff: \R.tiff: Failed to open file (w+b): Invalid argument (errno = 22)</pre>			
<p>The cause is in basicio.cpp where the FileIo::close() method does not call munmap() (it defers munmap() to the destructor). I've moved the call to unmap from the destructor to close() and everybody's happy.</p>			
<p>I don't believe MM creates a lock on unix, so this hasn't been seen until MM was added on Windows. Windows sets a lock on a MM file and causes tiffimage.cpp#180 -&gt;transfer to fail when it tries to open a writable FILE* to the target file while holding a readonly lock.</p>			
<p>I also found a bug in mmap.cpp in the array indexing which I've fixed in the same commit (although the change to mmap.cpp was not responsible for this bug).</p>			
<p>The correct behavior (as before on Unix) is now:</p> <pre>C:\gnu\exiv2\msvc\bin\Debug&gt;exiv2 -a 1:00:00 ad \R.tiff C:\gnu\exiv2\msvc\bin\Debug&gt;exiv2 -pt \R.tiff   grep -i date Exif.Image.DateTime          Ascii  20 2009:04:26 11:38:18 Exif.Photo.DateTimeOriginal  Ascii  20 2009:04:26 11:38:18 Exif.Photo.DateTimeDigitized Ascii  20 2009:04:26 11:38:18</pre>			
<pre>C:\gnu\exiv2\msvc\bin\Debug&gt;exiv2 -a 1:00:00 ad \R.tiff C:\gnu\exiv2\msvc\bin\Debug&gt;exiv2 -pt \R.tiff   grep -i date Exif.Image.DateTime          Ascii  20 2009:04:26 12:38:18 Exif.Photo.DateTimeOriginal  Ascii  20 2009:04:26 12:38:18 Exif.Photo.DateTimeDigitized Ascii  20 2009:04:26 12:38:18 C:\gnu\exiv2\msvc\bin\Debug&gt;</pre>			
<b>Related issues:</b>			
Related to Exiv2 - Feature #579: Implement memory mapping for Windows platforms			<b>Closed</b>

#### Associated revisions

##### Revision 1799 - 17 May 2009 16:41 - Robin Mills

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##### Revision 1807 - 29 May 2009 22:29 - Andreas Huggel

Prevent switchMode() from calling itself (fixes an incompatibility of the changes for #634 with the code to write to memory-mapped files.)

##### Revision 1832 - 19 Jun 2009 21:26 - Andreas Huggel

Removed r1799, r1797 from trunk (#634, #579)

#### History

##### #1 - 27 Dec 2009 16:44 - Andreas Huggel

- Status changed from New to Resolved

- Target version changed from 1.0 to 0.19

- % Done changed from 0 to 100

##### #2 - 30 Dec 2009 07:50 - Andreas Huggel

- Status changed from Resolved to Closed