

Exiv2 - Bug #1077

Memlo calls msync but Filelo does not

11 May 2015 19:52 - Thomas Beutlich

Status:	Closed	Start date:	11 May 2015
Priority:	Normal	Due date:	
Assignee:	Andreas Huggel	% Done:	100%
Category:	basicio	Estimated time:	0.00 hour
Target version:	0.26		

Description

I revisited the commits bound to #1043, esp. r3630. I do not think that msync is necessary for Memlo. According to <http://man7.org/linux/man-pages/man2/msync.2.html> msync is only useful for memory mapped files which is not the case in Memlo. I would rather see it in Filelo where memory mapped files are used. Thus my questions in #1043-28 (28) and #1043-29 (29) are still not answered.

Associated revisions

Revision 3896 - 25 Aug 2015 03:13 - Andreas Huggel

#1077: Removed msync() calls from Memlo.

History

#1 - 21 Aug 2015 18:12 - Robin Mills

- Status changed from New to Assigned
- Assignee set to Robin Mills
- Target version set to 0.26

I'll revisit this.

#2 - 24 Aug 2015 04:40 - Andreas Huggel

Stumbled upon this because valgrind complains about msync() being called with uninitialized parameters.

After some reading, I agree with Thomas that msync() is not necessary for Memlo. I'd simply remove it. Also, according to [this thread](#), it is not needed before munmap(), at least on POSIX systems.

Robin, I'm not making any changes since you plan to revisit this. If you're ok with my suggestion, you can assign this issue to me and I'll do it.

```
==4932== Syscall param msync(start) points to uninitialised byte(s)
==4932== at 0x5D8BD80: __msync_nocancel (syscall-template.S:81)
==4932== by 0x429972: Exiv2::Memlo::msync() (basicio.cpp:1297)
==4932== by 0x42921D: Exiv2::Memlo::~Memlo() (basicio.cpp:1177)
==4932== by 0x42929F: Exiv2::Memlo::~Memlo() (basicio.cpp:1181)
==4932== by 0x42E1D8: std::auto_ptr<Exiv2::Basicio>::~~auto_ptr() (in /usr/local/bin/exiv2)
==4932== by 0x4664D3: Exiv2::JpegBase::writeMetadata() (jpgimage.cpp:664)
==4932== by 0x41CCFD: Action::Modify::run(std::string const&) (actions.cpp:1259)
==4932== by 0x406D69: main (exiv2.cpp:171)
==4932== Address 0x6093212 is 34 bytes inside a block of size 40 alloc'd
==4932== at 0x4C2C7A7: operator new(unsigned long) (in /usr/lib/valgrind/vgpreload_memcheck-amd64-linux.so)
==4932== by 0x42913B: Exiv2::Memlo::Memlo() (basicio.cpp:1165)
```

==4932== by 0x427190: Exiv2::Filelo::temporary() const (basicio.cpp:614)
==4932== by 0x466404: Exiv2::JpegBase::writeMetadata() (jpgimage.cpp:659)
==4932== by 0x41CCFD: Action::Modify::run(std::string const&) (actions.cpp:1259)
==4932== by 0x406D69: main (exiv2.cpp:171)

#3 - 24 Aug 2015 08:14 - Robin Mills

- *Assignee changed from Robin Mills to Andreas Huggel*

I'm more than happy to pass this over to you, Andreas. Thank You.

#4 - 25 Aug 2015 03:21 - Andreas Huggel

- *Status changed from Assigned to Resolved*

- *% Done changed from 0 to 100*

Removed msync() calls from Memlo. Valgrind is happy again. Not planning to make changes to Filelo.

#5 - 31 Aug 2015 08:42 - Thomas Beutlich

Thanks for considering and fixing this.

#6 - 08 Nov 2015 18:39 - Robin Mills

- *Status changed from Resolved to Closed*

I'm going to set the status of this to closed. It has been 100% resolved for some time without further incident.