

## Exiv2 - Bug #1019

### Cppcheck: Suspicious usage of 'sizeof' with a numeric constant as parameter.

05 Jan 2015 21:14 - Thomas Beutlich

<b>Status:</b>	Closed	<b>Start date:</b>	05 Jan 2015
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Robin Mills	<b>% Done:</b>	100%
<b>Category:</b>	coverity	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	0.25		

#### Description

In jp2image.cpp lines 555, 561 and 567 there is sizeof(16) as third argument for memcmp. Cppcheck reports

It is unusual to use a constant value with sizeof. For example, 'sizeof(10)' returns 4 (in 32-bit systems) or 8 (in 64-bit systems) instead of 10. 'sizeof('A')' and 'sizeof(char)' can return different results.

#### Associated revisions

##### Revision 3538 - 08 Jan 2015 12:44 - Robin Mills

#1019. Thank You Thomas for finding this issue.

##### Revision 3547 - 09 Jan 2015 10:25 - Robin Mills

#1019. Thanks to private email with Thomas about the MSVC issue. Changed a signature in the patch to calm the compiler. MSVC is more strongly insistent than GCC or Clang about signature match.

#### History

##### #1 - 06 Jan 2015 12:44 - Robin Mills

- Category set to coverity
- Status changed from New to Assigned
- Assignee set to Robin Mills
- Target version set to 0.25

##### #2 - 08 Jan 2015 12:50 - Robin Mills

This is very suspicious! I think the sizeof(16) should simply be 16. It appears to be copying UUIDs which are 128 bits = 16 x 8bit bytes. The sizeof(16) would have "throttled" the UUID to 4 or 8 bytes. This would cause part of the data to be in an undefined state, without overflowing the buffer to which the data is being copied.

Fix submitted r3538. Thank you Thomas for finding and reporting this.

##### #3 - 08 Jan 2015 12:50 - Robin Mills

- Status changed from Assigned to Resolved

##### #4 - 08 May 2015 16:33 - Robin Mills

- % Done changed from 0 to 100

**#5 - 21 Jun 2015 16:39 - Andreas Huggel**

*- Status changed from Resolved to Closed*