

Exiv2 - Bug #970

Coverity scan : Issue CID 981992 , 981993

19 Jul 2014 08:30 - Mahesh Hegde

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|------------------------|----------------------------|------------------------|-------------|
| Status: | Closed | Start date: | 19 Jul 2014 |
| Priority: | Normal | Due date: | 31 Aug 2014 |
| Assignee: | Niels Kristian Bech Jensen | % Done: | 100% |
| Category: | metadata | Estimated time: | 0.00 hour |
| Target version: | 0.25 | | |

Description

There is issue in olympusmn.cpp , code execution cannot reach line (1) 1219 to 1223 and (2) 1209 to 1215

(1)Condition will be either of if(l1 != 1) or else if(l1 != 2) hence l1 != 3 code is dead.
(2) For all cases other than lo =1 is handled in first if (l0 != 1) condition hence only for l0 it goes inside else.

Associated revisions

Revision 3341 - 30 Aug 2014 21:57 - Niels Kristian Bech Jensen

Fix issue #970: Dead code in olympusmn.cpp.

History

#1 - 19 Jul 2014 08:33 - Mahesh Hegde

There is issue in olympusmn.cpp , code execution cannot reach line (1) 1219 to 1223 and (2) 1209 to 1215

***Condition will be either of if(l1 != 1) or else if(l1 != 2) hence l1 != 3 code is dead.**

(2)* For all cases other than lo == 1 is handled in first if (l0 != 1) condition hence only for l0 = 1 it goes inside else.

#2 - 19 Jul 2014 09:55 - Robin Mills

- Category set to metadata

- Assignee set to Niels Kristian Bech Jensen

- Priority changed from Low to Normal

- Target version set to 0.25

Coverity and Mahesh are right. This is dead code. I don't know anything about the Olympus Maker Notes, however I suspect the != operators should be == instead.

Maybe Niels or Phil can comment on this.

```
std::ostream& OlympusMakerNote::print0x1015(std::ostream& os, const Value& value, const ExifData*)
{
    if (value.count() != 2 || value.typeId() != unsignedShort) {
        return os << value;
    }
    short l0 = (short)value.toLong(0);
    if (l0 != 1) {
        os << _("Auto");
    }
    else {
        short l1 = (short)value.toLong(1);
        if (l1 != 1) { // more likely to be ==
            switch (l0) {
                case 0: os << _("Auto"); break;
                default: os << _("Auto") << " (" << l0 << ")"; break;
            }
        }
        else if (l1 != 2) { // more likely to be ==
            switch (l0) {
                case 2: os << _("3000 Kelvin"); break;
                case 3: os << _("3700 Kelvin"); break;
                case 4: os << _("4000 Kelvin"); break;
                case 5: os << _("4500 Kelvin"); break;
                case 6: os << _("5500 Kelvin"); break;
                case 7: os << _("6500 Kelvin"); break;
                case 8: os << _("7500 Kelvin"); break;
            }
        }
    }
}
```

```
        default: os << value; break;
    }
}
else if (l1 != 3) { // more likely to be ==
    switch (l0) {
        case 0: os << _("One-touch"); break;
        default: os << value; break;
    }
}
else {
    return os << value;
}
}
return os;
} // OlympusMakerNote::print0x1015
```

#3 - 20 Jul 2014 02:46 - Robin Mills

- Status changed from New to Assigned

#4 - 21 Jul 2014 04:50 - Phil Harvey

It looks to me like it should be == instead of != in 4 of the if statements. But there are a number of other differences from the ExifTool decoding. I think it should be l0 not l1 in all of the if statements, and l1 instead of l0 in the switch statements. Also, a single value should be allowed, and indicates "Auto" if the value is 1.

#5 - 30 Aug 2014 22:06 - Niels Kristian Bech Jensen

- Due date set to 31 Aug 2014

- Status changed from Assigned to Resolved

- % Done changed from 0 to 100

I agree with Phil that the code looked strange. I have fixed it accordingly. Please run another scan to check the code.

Best regards,
Niels Kristian Bech Jensen

#6 - 21 Jun 2015 16:41 - Andreas Huggel

- Status changed from Resolved to Closed