

A Note on Using the SQMLint (the MISRA C Rule Checker) --On Defining Syntactically Incorrect Structures--

Please take note of the following problem in using the SQMLint (the MISRA C rule checker, which extends the functionality of our compilers):

- On defining syntactically incorrect structures
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1. Versions Concerned

The SQMLint V.1.00 Release 1 and V.1.01 Release 00

2. Description

If a syntactically incorrect structure is defined and then another structure is declared which contains the above structure as its member, the SQMLint may be shut down abnormally.

2.1 Conditions

This problem occurs if the following conditions are all satisfied:

- (1) A structure having no members is defined.
- (2) A union is defined.
- (3) As a member of the union in (2), a structure is declared which contains the structure in (1) as its member.

2.2 Examples

1:

```
-----  
struct S {          /* Condition (1) */  
};
```

```
union U {          /* Condition (2) */
```

```
struct {
    struct S Byte0; /* Condition (3) */
} x;
int y;
};
```

2:

```
struct S1 {          /* Condition (1) */
};
```

```
struct S2{
    struct S1 Byte0;
};
```

```
union U {          /* Condition (2) */
    struct S2 x;    /* Condition (3) */
    int y;
};
```

3. Workaround

Modify C source code according to your program so that no syntactically incorrect structures can be defined.

4. Schedule of Fixing the Problem

We plan to fix this problem in our next release of the product.

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