Secrets

ABAP

Apex

C

C++

CloudFormation

COBOL

C#

CSS

Flex

Go

HTML

Java

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Kotlin

Kubernetes

Objective C

PHP

PL/I

PL/SQL

Python

RPG

Ruby

Scala

Swift

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VB.NET

VB6

XML

C static code analysis

Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your C code

All rules 311 | 🔒 Vulnerability 13 | 🐛 Bug 74 | 🛡 Security Hotspot 18 | ⊘ Code Smell 206 | ⚡ Quick Fix 14

Tags ⌄ | Search by name...

"memset" should not be used to delete sensitive data

🔒 Vulnerability

POSIX functions should not be called with arguments that trigger buffer overflows

🔒 Vulnerability

XML parsers should not be vulnerable to XXE attacks

🔒 Vulnerability

Function-like macros should not be invoked without all of their arguments

🐛 Bug

The address of an automatic object should not be assigned to another object that may persist after the first object has ceased to exist

🐛 Bug

"pthread_mutex_t" should be unlocked in the reverse order they were locked

🐛 Bug

"pthread_mutex_t" should be properly initialized and destroyed

🐛 Bug

"pthread_mutex_t" should not be consecutively locked or unlocked twice

🐛 Bug

Functions with "noreturn" attribute should not return

🐛 Bug

"memcmp" should only be called with pointers to trivially copyable types with no padding

🐛 Bug

"#include" directives should be followed by either <filename> or "filename" sequences

[Analyze your code]

🐛 Bug 🔺 Major ⑦ 🏷 based-on-misra

These are the only forms for the `#include` directive permitted by the standard. The behavior is undefined when other forms are used.

Noncompliant Code Example

```
#include filename.h        // Noncompliant
```

Compliant Solution

```
#include "filename.h"        // Compliant
#include <filename.h>

#define HEADER "filename.h"
#include HEADER
```

See

- MISRA C:2004, 19.3 - The #include directive shall be followed by either a <filename> or "filename" sequence.
- MISRA C++:2008, 16-2-6 - The #include directive shall be followed by either a <filename> or "filename" sequence.
- MISRA C:2012, 20.3 - The #include directive shall be followed by either a <filename> or "filename" sequence

Available In:

sonarlint | sonarcloud | sonarqube Developer Edition

Stack allocated memory and non-owned memory should not be freed

🐞 Bug

Closed resources should not be accessed

🐞 Bug

Dynamically allocated memory should be released

🐞 Bug

Freed memory should not be used