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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

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"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

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

Bug

A conditionally executed single line should be denoted by indentation

Analyze your code

Code Smell Critical ? confusing suspicious

In the absence of enclosing curly braces, the line immediately after a conditional is the one that is conditionally executed. By both convention and good practice, such lines are indented. In the absence of both curly braces and indentation the intent of the original programmer is entirely unclear and perhaps not actually what is executed. Additionally, such code is highly likely to be confusing to maintainers.

Noncompliant Code Example

```
if (condition) // Noncompliant
doTheThing();

doTheOtherThing();
somethingElseEntirely();

foo();
```

Compliant Solution

```
if (condition)
doTheThing();

doTheOtherThing();
somethingElseEntirely();

foo();
```

Available In:

sonarlint | sonarcloud | sonarqube Developer Edition

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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