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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

Comments should not be located at the end of lines of code

Analyze your code

Code Smell Minor convention

This rule verifies that single-line comments are not located at the ends of lines of code. The main idea behind this rule is that in order to be really readable, trailing comments would have to be properly written and formatted (correct alignment, no interference with the visual structure of the code, not too long to be visible) but most often, automatic code formatters would not handle this correctly: the code would end up less readable. Comments are far better placed on the previous empty line of code, where they will always be visible and properly formatted.

Noncompliant Code Example

```
a = b + c;    // This is a trailing comment that could be very
```

Compliant Solution

```
// This very long comment is better placed before the line of  
a = b + c;
```

Exceptions

The rule will not raise an issue if the trailing comment is preceded by an opening brace, closing brace (optionally followed by a semicolon) or a preprocessor directive.

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