

Kotlin

Kubernetes

Objective C

PHP

PL/I

PL/SQL

Python

RPG

Scala

Ruby

Swift

Terraform

Text

TypeScript

T-SQL

VB.NET

VB6

XML



C static code analysis

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

⊕ Code 206 O Quick 14 ΑII 311 Security 18 6 Vulnerability (13) **₩** Bug (74) rules Hotspot Smell

Tags

"memset" should not be used to delete sensitive data 6 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

Bua

"pthread_mutex_t" should not be consecutively locked or unlocked

Bug

Functions with "noreturn" attribute should not return

₩ Bua

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

🖷 Bug

Identical expressions should not be used on both sides of a binary operator

Analyze your code

Search by name.

👬 Bug 🔷 Major 🕙

cert

Using the same value on either side of a binary operator is almost always a mistake. In the case of logical operators, it is either a copy/paste error and therefore a bug, or it is simply wasted code, and should be simplified. In the case of bitwise operators and most binary mathematical operators, having the same value on both sides of an operator yields predictable results, and should be simplified.

Noncompliant Code Example

```
if ( a == a ) { // always true
 do_z();
if ( a != a ) { // always false
 do_y();
if ( a == b \&\& a == b ) { // if the first one is true, the se
if (a == b \mid \mid a == b ) { // if the first one is true, the sec
 do_w();
if (5 / 5) { // always 1
 do_v();
if (5 - 5) \{ // \text{ always } 0
 do_u();
```

Exceptions

The following are ignored:

- The expression 1 << 1
- When an increment or decrement operator is used, ex: *p++ == *p++
- Bitwise operators | , &, ^
- Arithmetic operators +, *
- Assignment operators =, +=, *=

- CERT, MSC12-C. Detect and remove code that has no effect or is never executed
- {rule:cpp:S1656} Implements a check on =.

Available In:

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Developer

Stack allocated memory and nonowned 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

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