



ABAP

Apex

C C

0 C++

CloudFormation

COBOL

C#

3 CSS

 \mathbb{X} Flex

-GO Go

5 HTML

Java

JavaScript

Kotlin

Kubernetes

Objective C

PHP

PL/I

PL/SQL

Python

RPG

Ruby

Scala

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

ΑII 311 6 Vulnerability (13) rules

₩ Bug (74)

Security 18 Hotspot

Smell

O Quick 14

Zero should not be a possible

Tags

denominator

error.

👬 Bug 🛮 🟠 Critical 🔞

Analyze your code

Search by name.

we symbolic-execution denial-of-service cert

"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

"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

Bug

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

🖷 Bug

If the denominator to a division or modulo operation is zero it would result in a fatal

Noncompliant Code Example

```
void test_divide() {
  int z = 0;
  if (unknown()) {
   // ..
   z = 3;
  } else {
   // ..
  z = 1 / z; // Noncompliant, possible division by zero
```

Compliant Solution

```
void test_divide() {
  int z = 0;
  if (unknown()) {
   // ..
   z = 3;
  } else {
   // ..
    z = 1;
  }
  z = 1 / z;
```

- MITRE, CWE-369 Divide by zero
- CERT, NUM02-J. Ensure that division and remainder operations do not result in divide-by-zero errors
- CERT, INT33-C. Ensure that division and remainder operations do not result in divide-by-zero errors

Available In:

sonarlint 😊 | sonarcloud 🙆 | sonarqube | Developer Edition

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Stack allocated memory and nonowned memory should not be freed

R
Bug

Closed resources should not be
accessed
Bug

Dynamically allocated memory should
be released
Bug

Freed memory should not be used