



ABAP

Apex

C C

0 C++

CloudFormation

COBOL

C#

3 CSS

 \bowtie 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 Hotspot 18

⊗ Code 206 Smell

O Quick 14

Analyze your code

Tags

The prefix increment/decrement

form should be used

Search by name.

"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

<table-of-contents> Bug

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

🖷 Bug

Postfix increment and decrement typically involves making a copy of the object being incremented or decremented, whereas its prefix form does not. Therefore the prefix form is usually the more efficient form, and should be preferred. This rule raises an issue if a postfix increment or decrement operator is used, but its

performance

Noncompliant Code Example

return value is not read.

```
void myFunc(int lim)
{
 int i;
 for (i = 0; i < lim; i++)
   // do something
}
```

Compliant Solution

```
void myFunc(int lim)
 int i:
  for (i = 0; i < lim; ++i)
   // do something
}
```

Available In:

sonarlint ⊖ | sonarcloud ♠ | sonarqube | Develop 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