



© C++

CloudFormation

COBOL COBOL

C# C#

∃ CSS

X Flex

GO Go

₩ HTML

🔮 Java

Js JavaScript

Kotlin

Kubernetes

Objective C

PHP

PL/I

PL/SQL

🦆 Python

RPG RPG

Ruby

Scala

Swift

Terraform

■ Text

Ts TypeScript

T-SQL

VB VB.NET

VB6 VB6

XML XML



C static code analysis

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

∰ Bug **74**

Security Hotspot

Tags

18

Ode Smell

O Quick 14 Fix

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

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

📆 Bug

"pthread_mutex_t" should not be consecutively locked or unlocked twice

👬 Bug

Functions with "noreturn" attribute should not return

👬 Bug

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

👬 Bug

Analyze your code

Search by name.

A call to $sizeof(sizeof(\dots))$ is equivalent to $sizeof(size_t)$, and indicates a misuse or misunderstanding of the sizeof construct.

Noncompliant Code Example

```
#include <string.h>
int main(int argc, char* argv[])
{
  char buffer[42];
  char buffer2[sizeof(sizeof(buffer))]; /* Noncompliant - a s
  memcpy(buffer, "Hello, world!", strlen("Hello, world!")+1);
  memcpy(buffer2, buffer, sizeof(buffer)); /* Buffer overflow
  return 0;
}
```

Compliant Solution

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owners. All rights are expressly reserved. Privacy Policy 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