



APEX Apex

**C** C

© C++

CloudFormation

COBOL COBOL

C# C#

e css

X Flex

=GO

**5** HTML

Go

Java

Js JavaScript

Kotlin

Kubernetes

Objective C

PHP

PL/I

PL/SQL 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

All 578 rules Vulnerability 13

**R** Bug (111)

Security Hotspot

Smell 436

O Quick 68 Fix

Tags

Available In:

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

Assigning to an optional should directly target the optional

🛊 Bug

Result of the standard remove algorithms should not be ignored

📆 Bug

"std::scoped\_lock" should be created with constructor arguments

<table-of-contents> Bug

Objects should not be sliced

👬 Bug

Immediately dangling references should not be created

🕀 Bug

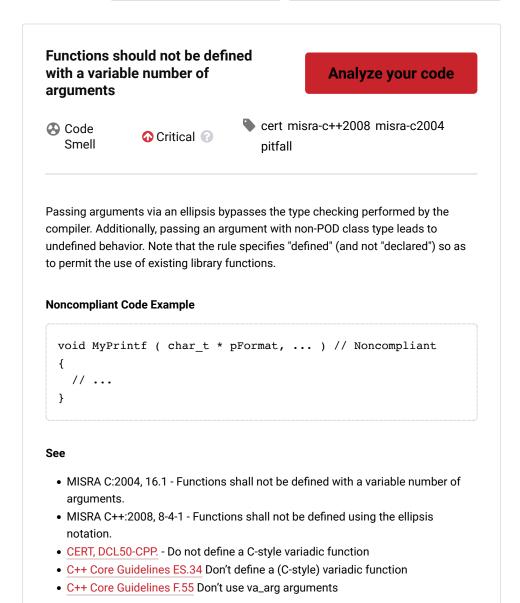
"pthread\_mutex\_t" should be unlocked in the reverse order they were locked

📆 Bug

"pthread\_mutex\_t" should be properly initialized and destroyed

📆 Bug

"pthread\_mutex\_t" should not be consecutively locked or unlocked twice



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I
🖟 Bug
"std::move" and "std::forward" should not be confused
<b>∰</b> Bug
A call to "wait()" on a  "std::condition_variable" should have a  condition
n Bug
A pointer to a virtual base class shall only be cast to a pointer to a derived class by means of dynamic_cast
<b>ਜ਼ਿ</b> Bug
Functions with "noreturn" attribute should not return
👬 Bug
RAII objects should not be temporary
्रे Bug
"memcmp" should only be called with pointers to trivially copyable types with no padding
🙃 Bug
"memcpy", "memmove", and "memset" should only be called with pointers to trivially copyable types
🙃 Bug
"std::auto_ptr" should not be used
<b>n</b> Bug
Destructors should be "noexcept"
🖟 Bug