O Quick 68 Fix





RPG Ruby

Scala

Swift

Terraform

Text

TypeScript

T-SQL

VB.NET

VB6

XML



All

rules

578

C++ static code analysis

6 Vulnerability (13)

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

R Bug (111)

• Security

Tags

Hotspot

"memset" should not be used to delete sensitive data
POSIX functions should not be called with arguments that trigger buffer overflows
XML parsers should not be vulnerable to XXE attacks
⑥ Vulnerability
Function-like macros should not be invoked without all of their arguments
n 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
n Bug
Result of the standard remove algorithms should not be ignored
♣ Bug
"std::scoped_lock" should be created with constructor arguments
♣ Bug

Objects should not be sliced

Immediately dangling references

"pthread_mutex_t" should be unlocked in the reverse order they were locked

"pthread_mutex_t" should be properly

"pthread_mutex_t" should not be consecutively locked or unlocked

initialized and destroyed

should not be created

📆 Bug

📆 Bug

📆 Bug

📆 Bug

```
Argument of "printf" should be a
                                               Analyze your code
format string
bad-practice
It is a security vulnerability to call printf with a unique string argument which is not
a string literal. Indeed, if this argument comes from a user input, this user can :
  • make the program crash, by executing code equivalent to:
   printf("%s%s%s%s%s%s%s")
  • view the stack or a memory at any location, by executing code equivalent to:
   printf("%08x %08x %08x %08x %08x\n")
Noncompliant Code Example
  void f(char* userInput) {
    printf(userInput); // Noncompliant
  }
Compliant Solution
  void f(char* userInput) {
    printf("%s", userInput); // Compliant
  · Owasp: format string attack
 Available In:
 sonarlint 😁 | sonarcloud 🙆 | sonarqube | Developer Edition
```

⊗ Code (436)

Search by name...

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I
🖟 Bug
"std::move" and "std::forward" should not be confused
∰ 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
ਜ਼ਿ 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
n Bug
Destructors should be "noexcept"
🖟 Bug