



ABAP

АРЕХ Арех

c C

C++

CloudFormation

COBOL COBOL

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Objective C

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Python

RPG RPG

Ruby

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VB VB.NET

VB6 VB6

XML XML



Objective C static code analysis

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

All 315 rules Vulnerability 10

R Bug (75)

Security Hotspot

S Code (212)

O Quick 13 Fix

Tags

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

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

Stack allocated memory and nonowned memory should not be freed

🕦 Bug

Closed resources should not be accessed

📆 Bug

Dynamically allocated memory should be released

📆 Bug

passed as variadic arguments

• Bug • Major • suspicious

User-defined types should not be

Analyze your code

Variadic arguments allow a function to accept any number of arguments (in this rule, we are not talking about variadic templates, but about functions with ellipses). But these arguments have to respect some criteria to be handled properly.

This rules reports an issue if the type of the argument:

- is a non trivially copyable, movable or deletable type: there is no guarantee that it
- is a class type that is trivially copyable, movable and deletable: in this case, we
 consider that the user intention was probably not to directly pass it as an
 argument but to call a method on it (c str() for example)

Noncompliant Code Example

```
class A {
   char* toStr();
};
void v(...);

void f() {
   A a;
   v(a); // Noncompliant

std::string myString = "foo";
   v(myString); // Noncompliant; string is not a POD type
}
```

Compliant Solution

```
class A {
   char* toStr();
}
void v(...);

void f() {
   A a;
   v(a.toStr()); // Compliant

   std::string myString = "foo";
   v(myString.c_str()); // Compliant
}

Available In:
```

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| Freed memory should not be used Recursion should not be infinite Bug Recursion should not be infinite Bug Resources should be closed Bug Resources should be closed Code Smell Switch labels should not be nested inside non-switch blocks Code Smell Memory access should be explicitly bounded to prevent buffer overflows Replication should not lead to unexpected behavior at runtime Bug Recursion should not be infinite Security Bug Resources should be closed Code Smell Switch labels should not be nested inside non-switch blocks Code Smell | |
|--|----------------------------------|
| Memory locations should not be released more than once | Freed memory should not be used |
| released more than once ## Bug Memory access should be explicitly bounded to prevent buffer overflows ## Bug Printf-style format strings should not lead to unexpected behavior at runtime ## Bug Recursion should not be infinite ## Bug Resources should be closed ## Bug Hard-coded credentials are security-sensitive ## Security Hotspot "goto" should jump to labels declared later in the same function ## Code Smell Only standard forms of the "defined" directive should be used ## Code Smell Switch labels should not be nested inside non-switch blocks | ₩ Bug |
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