

C++

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Objective C static code analysis

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

used

All 315 6 Vulnerability (10) rules

♣ Bug **75**

Security Hotspot

⊕ Code (212)

Quick 13
Fix

Analyze your code

Tags

Comma operator should not be

Search by name...

"memset" should not be used to delete sensitive data

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

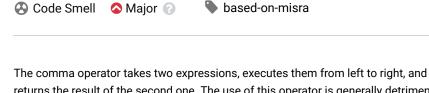
📆 Bug

Closed resources should not be accessed

📆 Bug

Dynamically allocated memory should be released

📆 Bug



returns the result of the second one. The use of this operator is generally detrimental to the readability and reliability of code, and the same effect can be achieved by other means.

It is especially error-prone in array subscripts where it might be misinterpreted as accessing a multidimensional array. The use of a comma in this context is deprecated since C++20 (it might be repurposed in a later edition of the standard to actually access multidimensional arrays, but until then, it should really not be used).

Noncompliant Code Example

```
i = a += 2, a + b; // Noncompliant. What's the value of i?
a[1, 2] = 3; // Noncompliant: 1 is ignored. This is not an ac
x = a[i++, j = i + 1, j*2]; // Noncompliant. What index is us
```

Compliant Solution

```
a += 2;
i = a + b;
j = i + 1;
x = a[j*2];
++i;
```

Exceptions

Use of comma operator is tolerated in initialization and increment expressions of for loops.

```
for(i = 0, j = 5; i < 6; i++, j++) { ... }
```

See

- MISRA C:2004, 12.10 The comma operator shall not be used.
- MISRA C++:2008, 5-18-1 The comma operator shall not be used.
- MISRA C:2012, 12.3 The comma operator should not be used

Available In:

sonarcloud 🐼 | sonarqube

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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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