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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

ΑII 315 6 Vulnerability 10 rules

R Bug (75)

o Security Hotspot

⊗ Code (212)

O Quick 13
Fix

Tags

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"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



Applying the unary minus operator to an unsigned variable or expression will always vield another unsigned expression. More plainly, in some cases the operation itself is meaningless, and in some other cases the result will be unexpected. In all cases it is bad practice. Therefore the unary minus operator should not be applied to unsigned variables or expressions.

Noncompliant Code Example

```
uint8_t a = -1U;
int32_t b = -a; // Noncompliant; b is assigned -255
uint32 t c = 1U;
int64_t d = -c; // Noncompliant; d is assigned MAX_UINT
```

Exceptions

This rule ignores -1U because it is commonly used as shorthand for MAX_UINT.

See

- MISRA C:2004, 12.9 The unary minus operator shall not be applied to an expression whose underlying type is unsigned.
- MISRA C++:2008, 5-3-2 The unary minus operator shall not be applied to an expression whose underlying type is unsigned.
- MISRA C:2012, 10.1 Operands shall not be of an inappropriate essential type

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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