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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

⊗ Code (212) O Quick 13 Fix • Security ΑII 315 **R** Bug (75) 6 Vulnerability 10 rules Hotspot

Tags

of type (signed) int in a 32-bit environment.

Any value with a "U" suffix is of unsigned type;

• An unsuffixed decimal value less than 2^31 is of signed type.

"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

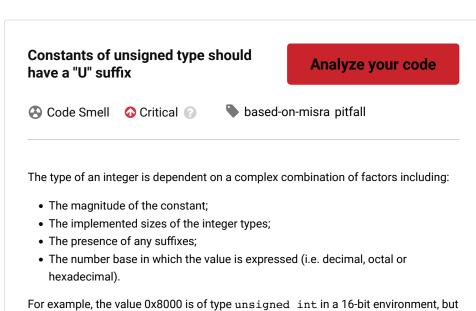
📆 Bug

Closed resources should not be accessed

📆 Bug

Dynamically allocated memory should be released

📆 Bug



Search by name...

But:

• An unsuffixed hexadecimal value greater than or equal to 2^15 may be of signed

or unsigned type; • For C90, an unsuffixed decimal value greater than or equal to 2^31 may be of signed or unsigned type.

In C++, if an overload set includes candidates for an unsigned int and an int, then the overload that would be matched by 0x8000 is therefore dependent on the implemented integer size. Adding a "U" suffix to the value specifies that it is unsigned.

See

- MISRA C:2004, 10.6 A "U" suffix shall be applied to all constants of unsigned
- MISRA C++:2008, 2-13-3 A "U" suffix shall be applied to all octal or hexadecimal integer literals of unsigned type.
- MISRA C:2012, 7.2 A "u" or "U" suffix shall be applied to all integer constants that are represented in an unsigned type.

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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
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