


































-  Secrets
-  ABAP
-  Apex
-  C
-  C++
-  CloudFormation
-  COBOL
-  C#
-  CSS
-  Flex
-  Go
-  HTML
-  Java
-  JavaScript
-  Kotlin
-  Kubernetes
-  **Objective C**
-  PHP
-  PL/I
-  PL/SQL
-  Python
-  RPG
-  Ruby
-  Scala
-  Swift
-  Terraform
-  Text
-  TypeScript
-  T-SQL
-  VB.NET
-  VB6
-  XML




Objective C static code analysis


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


All rules 315

 Vulnerability 10

 Bug 75

 Security Hotspot 18


 Code Smell 212

 Quick Fix 13


Tags

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

"memcpy" should only be called with pointers to trivially copyable types with no padding

 Bug

Stack allocated memory and non-owned memory should not be freed

 Bug

Closed resources should not be accessed

 Bug

Dynamically allocated memory should be released

 Bug

Freed memory should not be used
 Bug
Memory locations should not be 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
 Code Smell

Pointer and reference parameters should be "const" if the corresponding object is not modified

Analyze your code

 Code Smell  Minor  Quick Fix   bad-practice misra-c++2008 misra-c2004 misra-c2012

This rule leads to greater precision in the definition of the function interface. The `const` qualification shall be applied to the object pointed to, not to the pointer, since it is the object itself that is being protected.

Noncompliant Code Example

```
void myfunc (      int * param1,  // object is modified
                  const int * param2,
                  int * param3,  // Noncompliant
                  int * param4) // Noncompliant
{
    *param1 = *param2 + *param3 + *param4;
}

int main (int argc,
          const char * * argv) // Noncompliant
{
    return argc;
}
```

Compliant Solution

```
void myfunc (      int * param1,  // object is modified
                  const int * param2,
                  const int * param3,
                  const int * param4)
{
    *param1 = *param2 + *param3 + *param4;
}

int main (int argc,
          const char * const * argv)
{
    return argc;
}
```

See

- MISRA C:2004, 16.7 - A pointer parameter in a function prototype should be declared as pointer to const if the pointer is not used to modify the addressed object.
- MISRA C++:2008, 7-1-2 - A pointer or reference parameter in a function shall be declared as pointer to const or reference to const if the corresponding object is not modified.
- MISRA C:2012, 8.13 - A pointer should point to a const-qualified type whenever possible

Available In:   Developer Edition