

CWE WEAKNESS IDS MAPPED TO CODESONAR[®] 8.0 C/C++ WARNING CLASSES

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INTRODUCTION

The Common Weakness Enumeration (CWE[™]) is a list of software weakness types. Creating the list is a community initiative aimed at creating specific and succinct definitions for each common weakness type.

Every CodeSonar 8.0 warning report includes the numbers of any CWE weakness IDs that are closely mapped to the warning's class. (The close mapping for a warning class is the set of categories—including CWE weakness IDs—that most closely match the class, if any).

You can configure CodeSonar to enable and disable warning classes mapped to specific CWE weakness IDs, or use build presets to enable all warning classes that are closely mapped to any CWE weakness IDs. In addition, you can use the CodeSonar search function to find warnings related to specific CWE weakness IDs.

CodeSonar 8.0 is using CWE v4.12, released June 29, 2023.

For more information on Common Weakness Enumeration: <u>https://cwe.mitre.org/data/index.html</u>

The remainder of this document comprises two tables:

- A table showing the close mapping between CodeSonar C and C++ warning classes and CWE weakness IDs.
- A table showing the broad mapping between CodeSonar C and C++ warning classes and CWE weakness IDs. The broad CWE mapping for a CodeSonar warning class combines CWE weakness IDs from four sources:
 - 1. The close CWE mapping for the class.
 - 2. Other CWE weakness IDs that are related to the class in a meaningful way, but not eligible for the close mapping.
 - 3. For all CWE weakness IDs from sources 1 and 2, all ancestors in the CWE hierarchy.
 - 4. For all CWE weakness IDs from sources 1 and 2, all descendants in the CWE hierarchy.

A separate document, <u>CWE Weakness IDs Mapped to CodeSonar® Java Warning Classes</u>, lists the CodeSonar Java warning classes that are closely and broadly mapped to CWE weakness IDs.

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CWE CLOSE MAPPING: C/C++ (CODESONAR V8.0)

The following table lists the CodeSonar C/C++ warning classes that are closely mapped to CWE weakness IDs.

Category Name	CodeSonar Class Name
Compiler Removal of Code to Clear Buffers	Use of memset
External Control of System or Configuration Setting	Tainted Configuration Setting
Improper Input Validation	Coercion Alters Value
	Cast Alters Value
	Tainted Buffer Access
Improper Limitation of a Pathname to a Restricted Directory ('Path Traversal')	Tainted Filename
External Control of File Name or Path	Tainted Filename
Improper Neutralization of Special Elements used in an OS	Command Injection
Command ('OSCommand Injection')	Untrusted Process Creation
Improper Neutralization of Argument Delimiters in a Command ('ArgumentInjection')	Command Injection
Improper Neutralization of Special Elements used in an SQL Command ('SQLInjection')	SQL Injection
Improper Neutralization of Special Elements used in an LDAP Query ('LDAPInjection')	LDAP Injection
Improper Control of Resource Identifiers ('Resource Injection')	Tainted Network Address
	Tainted Filename
	Untrusted Network Host
	Untrusted Network Port
Process Control	Command Injection
	Library Injection
	Untrusted Library Load
Improper Restriction of Operations within the Bounds of a Memory	Tainted Buffer Access
Buffer	Type Overrun
	Type Underrun
	High Risk Loop
	Compiler Removal of Code to Clear Buffers External Control of System or Configuration Setting Improper Input Validation Improper Limitation of a Pathname to a Restricted Directory ('Path Traversal') External Control of File Name or Path Improper Neutralization of Special Elements used in an OS Command ('OSCommand Injection') Improper Neutralization of Argument Delimiters in a Command ('ArgumentInjection') Improper Neutralization of Special Elements used in an SQL Command ('SQLInjection') Improper Neutralization of Special Elements used in an LDAP Query ('LDAPInjection') Improper Control of Resource Identifiers ('Resource Injection') Process Control



CWE:120 Buffer Copy without Checking Size of Input ('Classic Buffer Overflow') Use of getpass Use of getpass Use of getpass Use of OemToRini Use of OemToRini Use of StrCat Use of StrCat U
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WE:12BWap-around ErrorUse of success was calculation of Buffer SizeAddition Overflow of Allocation Size Addition Overflow of Allocation Size Subtraction Underflow of Allocation Size Addition Overflow of Allocation Size Subtraction Underflow of Allocation Size Addition Overflow of Allocation Size Subtraction Underflow of Allocation Size Addition Overflow of Allocation Size Addition Overflow of Allocation Size Addition Overflow of Allocation Size Addition Overflow of Allocation Size Subtraction Underflow of Allocation Size Addition Overflow of Alloc
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CWE-134 Lise of Externally-Controlled Format String
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Format String
CWE:170 Improper Null Termination No Space For Null Terminator
Unterminated C String
CWE:190 Integer Overflow or Wraparound Addition Overflow of Allocation Size
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CWE:192	Integer Coercion Error	Truncation of Allocation Size
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		Cast Alters Value
		Truncation of Size
CWE:197	Numeric Truncation Error	Truncation of Allocation Size
		Truncation of Size
CWE:200	Exposure of Sensitive Information to an Unauthorized Actor	Tainted Write
CWE:242	Use of Inherently Dangerous Function	Use of gets
		Use of getwd
		Use of chroot
		Use of crypt
		Use of drem
		Use of gamma
		Use of longjmp
		Use of setjmp
		Use of mktemp
		Use of tmpfile
		Use of tmpnam
		Use of vfork
CWE:243	Creation of chroot Jail Without Changing Working Directory	Use of chroot
CWE:243	Creation of chroot Jail Without Changing Working Directory	chroot without chdir
CWE:252	Unchecked Return Value	Ignored Return Value
CWE:256	Plaintext Storage of a Password	Plaintext Storage of Password
CWE:259	Use of Hard-coded Password	Hardcoded Authentication
CWE:269	Improper Privilege Management	Use of AddAccessAllowedAce
		Use of AddAccessDeniedAce
CWE:281	Improper Preservation of Permissions	Use of AddAccessAllowedAce
		Use of AddAccessDeniedAce
CWE:284	Improper Access Control	Null Security Descriptor
CWE:311	Missing Encryption of Sensitive Data	Plaintext Storage of Password
		Plaintext Transmission of Password
CWE:313	Cleartext Storage in a File or on Disk	Plaintext Storage of Password
CWE:316	Cleartext Storage of Sensitive Information in Memory	Plaintext Storage of Password
CWE:318	Cleartext Storage of Sensitive Information in Executable	Hardcoded Authentication
		Hardcoded Crypto Key
		Hardcoded Crypto Salt
		Plaintext Storage of Password
CWE:319	Cleartext Transmission of Sensitive Information	Plaintext Transmission of Password
CWE:321	Use of Hard-coded Cryptographic Key	Hardcoded Crypto Key
CWE:325	Missing Cryptographic Step	Encryption without Padding
CWE:326	Inadequate Encryption Strength	Use of crypt
		Weak Cryptography
CWE:327	Use of a Broken or Risky Cryptographic Algorithm	Use of crypt
		Use of rand
		Use of rand48 Function
		Use of random
		Weak Cryptography
		Use of Weak Cryptographic Algorithm



CWE WEAKNESS IDS MAPPED TO CODESONAR® 8.0 C/C++ WARNING CLASSES

CWE:328	Reversible One-Way Hash	Use of crypt Weak Cryptography
CWE:330	Use of Insufficiently Random Values	Use of crypt Weak Cryptography
CWE:331	Insufficient Entropy	Encryption without Padding
CWE:332	Insufficient Entropy in PRNG	Use of rand Use of rand48 Function Use of random
CWE:334	Small Space of Random Values	Use of rand Use of rand48 Function Use of random
CWE:336	Same Seed in Pseudo-Random Number Generator (PRNG)	Hardcoded Seed in PRNG
CWE:337	Predictable Seed in Pseudo-Random Number Generator (PRNG)	Predictable Seed in PRNG
CWE:338	Use of Cryptographically Weak Pseudo-Random Number Generator (PRNG)	Use of crypt Use of rand Use of rand48 Function Use of random Weak Cryptography
CWE:362	Concurrent Execution using Shared Resource with Improper Synchronization('Race Condition')	Data Race
CWE:364	Signal Handler Race Condition	Data Race
CWE:366	Race Condition within a Thread	Data Race
CWE:367	Time-of-check Time-of-use (TOCTOU) Race Condition	File System Race Condition
CWE:369	Divide By Zero	Division By Zero Float Division By Zero
CWE:377	Insecure Temporary File	Use of GetTempFileName Use of mkstemp Use of mktemp Use of tmpfile Use of tmpfile_s Use of tmpnam Use of tmpnam_s
CWE:390	Detection of Error Condition Without Action	Empty if Statement
CWE:391	Unchecked Error Condition	Ignored Return Value
CWE:394	Unexpected Status Code or Return Value	Ignored Return Value
CWE:396	Declaration of Catch for Generic Exception	Use of catch
CWE:397	Declaration of Throws for Generic Exception	Use of throw
CWE:398	7PK - Code Quality	Unused Value
CWE:400	Uncontrolled Resource Consumption	Excessive Stack Depth Potential Unbounded Loop
CWE:401	Missing Release of Memory after Effective Lifetime	Leak
CWE:410	Insufficient Resource Pool	Excessive Stack Depth
CWE:413	Improper Resource Locking	Data Race Missing Lock Acquisition Conflicting Lock Order Nested Locks Try-lock that will never succeed Unknown Lock
CWE:415	Double Free	Double Free
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CWE:416	Use After Free	Use After Free
CWE:427	Uncontrolled Search Path Element	Tainted Environment Variable
CWE:457	Use of Uninitialized Variable	Uninitialized Variable
CWE:459	Incomplete Cleanup	Leak
CWE:465	Pointer Issues	High Risk Loop
CWE:474	Use of Function with Inconsistent Implementations	Use of gamma
CWE:475	Undefined Behavior for Input to API	Overlapping Memory Regions
CWE:476	NULL Pointer Dereference	Null Pointer Dereference
		Unchecked Parameter Dereference
CWE:477	Use of Obsolete Function	Use of cuserid
		Use of drem
		Use of gamma
		Use of LoadModule
		Use of MoveFile
		Use of WinExec
CWE:478	Missing Default Case in Switch Statement	Missing default
		Assignment in Conditional
014/5 400		Assignment Result in Expression
CWE:482	Comparing instead of Assigning	Redundant Condition
CWE:484	Omitted Break Statement in Switch	Missing break
CWE:489	Active Debug Code	Leftover Debug Code
CWE:506	Embedded Malicious Code	Hardcoded DNS Name
		Untrusted Network Host
CWE:511	Logic/Time Bomb	Potential Timebomb
CWE:540	Inclusion of Sensitive Information in Source Code	Hardcoded Authentication
		Hardcoded Crypto Key
CWE:546	Suspicious Comment	Comment Suggests Code Unfinished
CWE:547	Use of Hard-coded, Security-relevant Constants	Hardcoded Authentication
		Hardcoded Crypto Key
CWE:558	Use of getlogin() in Multithreaded Application	Use of getlogin
CWE:561	Dead Code	Unexercised Call
		Unexercised Computation
		Unexercised Conditional
		Unexercised Control Flow
		Unexercised Data Flow
		Unreachable Call
		Unreachable Catch
		Unreachable Computation
		Unreachable Conditional
		Unreachable Control Flow
		Unreachable Data Flow
		Unused Label Unused Macro
		Unused Parameter
		Unused Tag
		Unused Type
		Function Call Has No Effect
		Over-initialized Element
	Return of Stack Variable Address	Return Pointer to Local
CWE:562		



CWE:567	Unsynchronized Access to Shared Data in a Multithreaded Context	Data Race
CWE:570	Expression is Always False	Redundant Condition
CWE:571	Expression is Always True	Redundant Condition
CWE:573	Improper Following of Specification by Caller	Use After Free
		Division By Zero
		Null Pointer Dereference
CWE:587	Assignment of a Fixed Address to a Pointer	Coercion: Integer Constant to Pointer
CWE:589	Call to Non-ubiquitous API	Use of drem
CWE:590	Free of Memory not on the Heap	Free Null Pointer
		Type Mismatch
CWE:605	Multiple Binds to the Same Port	Use of SO_REUSEADDR
CWE:610	Externally Controlled Reference to a Resource in Another Sphere	Tainted Network Address
		Tainted Filename
		Untrusted Network Host
		Untrusted Network Port
CWE:615	Inclusion of Sensitive Information in Source Code Comments	Commented-out Code
CWE:628	Function Call with Incorrectly Specified Arguments	Floating Point Domain Error
		Arctangent Domain Error
		Raises FE_INVALID
		Logarithm on Negative Value
		Undefined Power of Zero
		sqrt on Negative Value
		Argument Too High
		Argument Too Low
		Floating Point Range Error
		cosh on High Number
		cosh on Low Number
		Gamma on Zero
		Logarithm on Zero
		Format String Type Error
CWE:641	Improper Restriction of Names for Files and Other Resources	Tainted Network Address
		Tainted Filename
CWE:657	Violation of Secure Design Principles	Library Function Override
CWE:662	Improper Synchronization	Lock/Unlock Mismatch
		Blocking in Critical Section
CWE:664	Improper Control of a Resource Through its Lifetime	Misaligned Object
CWE:665	Improper Initialization	Uninitialized Variable
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		Inconsistent Enumerator Initialization
		Inconsistent Enumerator Initialization Initialization Cycle
		Initialization Cycle
		Initialization Cycle Missing Braces in Initialization
		Initialization Cycle Missing Braces in Initialization Over-initialized Element
		Initialization Cycle Missing Braces in Initialization Over-initialized Element Partially Uninitialized Aggregate
		Initialization Cycle Missing Braces in Initialization Over-initialized Element Partially Uninitialized Aggregate Partially Uninitialized Array
		Initialization Cycle Missing Braces in Initialization Over-initialized Element Partially Uninitialized Aggregate Partially Uninitialized Array Unordered Initialization
		Initialization Cycle Missing Braces in Initialization Over-initialized Element Partially Uninitialized Aggregate Partially Uninitialized Array Unordered Initialization Unspecified Array Size with Designator Initialization Virtual Call in Constructor Thread is not Joinable
CWE:666	Operation on Resource in Wrong Phase of Lifetime	Initialization Cycle Missing Braces in Initialization Over-initialized Element Partially Uninitialized Aggregate Partially Uninitialized Array Unordered Initialization Unspecified Array Size with Designator Initialization Virtual Call in Constructor



CWE:667	Improper Locking	Missing Lock Release
CWE:672	Operation on a Resource after Expiration or Release	Use After Free Double Close Use After Close
CWE:674	Uncontrolled Recursion	Recursion
CWE:675	Multiple Operations on Resource in Single-Operation Context	Double Initialization



CWE:676	Use of Potentially Dangerous Function	Use of abort	Use of LoadLibrary
	-	Use of AddAccessAllowe-dAce	Use of popen
		Use of AddAccessDeniedAce	Use of SHCreateProcessAsUs-erW
		Use of AfxParseURL	Use of ShellExecute
		Use of atof	Use of system
		Use of atoi	Use of qsort
		Use of atol	Use of rand
		Use of atol	Use of rand48 Function
		Use of getopt	Use of random
		Use of getpass	Use of setjmp
		Use of OemToAnsi	Use of setuid
		Use of OemToChar	Use of signal
		Use of realpath	Use of <stdio.h> Input/Output</stdio.h>
		Use of recymsg	Use of t_open
		Use of strcat	Use of GetTempFileName
		Use of StrCatChainW	Use of mkstemp
			-
		Use of strchr	Use of mktemp
		Use of strcmp	Use of tmpfile
		Use of strcoll	Use of tmpnam
		Use of stropy	Use of <time.h> Time/DateFunction</time.h>
		Use of strcspn	Use of ttyname
		Use of strlen	Use of vfork
		Use of strpbrk	Use of <wchar.h> Input/OutputWeak</wchar.h>
		Use of strrchr	Cryptography
		Use of strspn	Use of WinExec
		Use of strstr	Use of <stdio.h> Input/OutputMacro</stdio.h>
		Use of strtok	Use of <wchar.h> Input/OutputMacro</wchar.h>
		Use of strtrns	Use of <signal.h></signal.h>
		Use of syslog	Use of <tgmath.h> chroot without chdir</tgmath.h>
		Use of bsearch	Use of Condition Variable Signal
		Use of catopen	Use of pthread_kill
		Use of chroot	Use of putenv
		Use of CreateFile	Use of realloc
		Use of CreateProcess	Use of tmpfile_s
		Use of CreateThread	Use of tmpnam_s
		Use of crypt	
		Use of cuserid	
		Use of exit	
		Use of <fenv.h> Exception</fenv.h>	
		Handling Function	
		Use of FormatMessage	
		Use of getenv	
		Use of getlogin	
		Use of LoadModule	
		Use of longjmp	
		Use of memset	
		Use of MoveFile	
		Use of _exec	
		Use of _spawn	
		Use of AfxLoadLibrary	
		Use of CoLoadLibrary	
		Use of execlp	
		Use of execvp	



CWE:680	Integer Overflow to Buffer Overflow	Addition Overflow of Allocation Size
		Integer Overflow of Allocation Size
		Multiplication Overflow of Allocation Size
		Subtraction Underflow of Allocation Size
		Truncation of Allocation Size
		Addition Overflow of Size
		Multiplication Overflow of Size
		Subtraction Underflow of Size
		Truncation of Size
CWE:681	Incorrect Conversion between Numeric Types	Negative Character Value
CWE:686	Function Call With Incorrect Argument Type	GlobalHandle on GMEM_FIXED Memory
		GlobalLock on GMEM_FIXED Memory
		GlobalUnlock on GMEM_FIXED Memory
		LocalHandle on LMEM_FIXED Memory
		LocalLock on LMEM_FIXED Memory
		LocalUnlock on LMEM_FIXED Memory
		Type Mismatch
		Array Parameter Mismatch
		Implicit Function Declaration
		Negative Character Value
CWE:687	Function Call With Incorrectly Specified Argument Value	Array Parameter Mismatch
		Floating Point Domain Error
		Arctangent Domain Error
		Raises FE_INVALID
		Logarithm on Negative Value
		Undefined Power of Zero
		sqrt on Negative Value
		Argument Too High
		Argument Too Low
		Floating Point Range Error
		cosh on High Number
		cosh on Low Number
		Gamma on Zero
		Logarithm on Zero
		Format String Type Error
		Unreasonable Size Argument
		Function Call Has No Effect
		MAX_PATH Exceeded
		Negative file descriptor



CWE:688	Function Call With Incorrect Variable or Reference as Argument	Array Parameter Mismatch
		Floating Point Domain Error
		Arctangent Domain Error
		Raises FE_INVALID
		Logarithm on Negative Value
		Undefined Power of Zero
		sqrt on Negative Value
		Argument Too High
		Argument Too Low
		Floating Point Range Error
		cosh on High Number
		cosh on Low Number
		Gamma on Zero
		Logarithm on Zero
		Format String Type Error
		Unreasonable Size Argument
		Function Call Has No Effect
0.00		
CWE:690	Unchecked Return Value to NULL Pointer Dereference	Null Pointer Dereference
		Null Test After Dereference
CWE:691	Insufficient Control Flow Management	Use of longjmp
		Use of setjmp
CWE:696	Incorrect Behavior Order	Use After Free
CWE:090		
		Conflicting Lock Order
		Socket In Wrong State
		Use After Close
		Null Test After Dereference
		Thread is not Joinable
CWE:703	Improper Check or Handling of Exceptional Conditions	Unreachable Catch
CWE:704	Incorrect Type Conversion or Cast	Coercion Alters Value
		Dangerous Function Cast
		Cast: Non-integer Arithmetic Type/Object Pointer
		Cast: Arithmetic Type/Void Pointer
		Cast Removes const Qualifier
		Cast Removes volatile Qualifier
		Conversion to Function Pointer
		Float Pointer Conversion
		Conversion from Function Pointer
		Conversion: Pointer to Incomplete
		Conversion: Pointer/Integer
		Cast: Object Pointers
		Conversion: Void Pointer to Object Pointer
		Risky Integer Promotion
		Cast Alters Value
		Varargs Function Cast
		Expression Value Widened by Assignment
		Inappropriate Cast Type
		Inappropriate Cast Type: Expression Expression Value Widened by Other Operand



CWE:710	Improper Adherence to Coding Standards	Dynamic Allocation After Initialization
	· · · · · · · · · · · · · · · · · · ·	Use of longjmp
		Use of setimp
		Use of <stdlib.h> Allocator/Deallocator</stdlib.h>
		Use of <stdlib.h> Allocator/Deallocator Macro</stdlib.h>
		Not All Warnings Are Enabled
		Warnings Not Treated As Errors
		Task Delay Function
		Lock/Unlock Mismatch
		Float Pointer Conversion
		Not Enough Assertions Recursion
		Too Many Parameters
		Function Too Long
		Non-distinct Identifiers: External Names
		Non-distinct Identifiers: Macro/Macro
		Non-distinct Identifiers: Macro/Other
		Non-distinct Identifiers: Nested Scope
		Non-distinct Identifiers: Same Scope
		Non-unique Identifiers: External Name
		Non-unique Identifiers: Internal Name
		Library Function Override
		Macro Name is C Keyword Non-unique Identifiers: Tag
		Non-unique Identifiers: TypedefMacro Uses ->
		Operator
		Macro Uses [] Operator
		Code Before #include
		Conditional Compilation
		Macro Defined in Function Body
		Macro Uses # Operator
		Macro Does Not End With } or)
		Macro Does Not Start With { or (
		No Matching #endif
		No Matching #if
		Macro Uses ## Operator
		## Follows # Operator
		Recursive Macro
		Macro Uses Unary * Operator
		Unbalanced Parenthesis
		Use of #undef
		Macro Undefined in Function Body
		Variadic Macro
		Nested Function
		Declaration Multiple
		Declarations of a Global
		Global Variable Declared with Different Types
		Multiple Declarations On Line
		Function Pointer
		Function Pointer Conversion
		Goto Statement
		Inconsistent Enumerator Initialization
		Multiple Statements On Line
		Pointer Type Inside
		Typedef Condition Contains Side Effects
		Too Many Dereferences
		Too Much Indirection in Declaration
		Basic Numerical Type Used
		Variable Could Be const
1		Confusing Literal Suffix
		Missing Parentheses

CWE:758	Reliance on Undefined, Unspecified, or Implementation-Defined Behavior	Use of abort
		Use of atof
		Use of atoi
		Use of atol
		Use of atoll Use of bsearch
		Use of exit
		Use of getenv
		Use of <stdio.h> Input/Output Use of <time.h> Time/Date Function</time.h></stdio.h>
		Use of <wchar.h> Input/Output Use of <stdio.h> Input/Output Macro</stdio.h></wchar.h>
		Use of <wchar.h> Input/Output Macro</wchar.h>
		Shift Amount Exceeds Bit Width
		Negative Shift Amount
		Missing Return Value
		Uninitialized Variable
		Use of <signal.h></signal.h>
		Use of <tgmath.h></tgmath.h>
		Missing Return Statement
		Use of putenv
		Indeterminate Order of Evaluation
CWE:760	Use of a One-Way Hash with a Predictable Salt	Hardcoded Crypto Salt
CWE:761	Free of Pointer not at Start of Buffer	Misaligned Object
		Type Mismatch
CWE:762	Mismatched Memory Management Routines	Type Mismatch
		Pool Mismatch
CWE:763	Release of Invalid Pointer or Reference	Double Free
		Misaligned Object
CWE:764	Multiple Locks of a Critical Resource	Double Lock
		Locked Twice
CWE:765	Multiple Unlocks of a Critical Resource	Double Unlock
CWE:771	Missing Reference to Active Allocated Resource	Leak
CWE:772	Missing Release of Resource after Effective Lifetime	Leak
CWE:773	Missing Reference to Active File Descriptor or Handle	Leak
CWE:775	Missing Release of File Descriptor or Handle after Effective Lifetime	Leak
CWE:780	Use of RSA Algorithm without OAEP	Encryption without Padding
CWE:783	Operator Precedence Logic Error	Confusing Operator Overload
	, , , , , , , , , , , , , , , , , , ,	
CWE:785	Use of Path Manipulation Function without Maximum-sized Buffer	Use of realpath
CWE:786	Access of Memory Location Before Start of Buffer	Buffer Underrun
CWE:788	Access of Memory Location After End of Buffer	Buffer Overrun
CWE:789	Memory Allocation with Excessive Size Value	Tainted Allocation Size
CWE:798	Use of Hard-coded Credentials	Hardcoded Authentication
		Hardcoded Crypto Key
		Hardcoded Crypto Salt
CWE:822	Untrusted Pointer Dereference	Unchecked Parameter Dereference
CWE:823	Use of Out-of-range Pointer Offset	Pointer Arithmetic



	Pointer Arithmetic	
	Pointer Before Beginning of Object	
	Pointer Past End of Object	
Unlock of a Resource that is not Locked	Double Unlock	
	Missing Lock Acquisition	
Deadlock	Deadlock	
Loop with Unreachable Exit Condition ('Infinite Loop')	Potential Unbounded Loop	
Access of Resource Using Incompatible Type ('Type Confusion')	GlobalHandle on GMEM_FIXED Memory	
	GlobalLock on GMEM_FIXED Memory	
	GlobalUnlock on GMEM_FIXED Memory	
	LocalHandle on LMEM_FIXED Memory	
	LocalLock on LMEM_FIXED Memory	
	LocalUnlock on LMEM_FIXED Memory Type Mismatch	
Incorrect Authorization	Use of cuserid	
	Use of getlogin	
Use of Uninitialized Resource	Uninitialized Variable Inappropriate C Atomic Initialization	
Use of Expired File Descriptor	Use After Close	
Insufficient Visual Distinction of Homoglyphs Presented to User	Typographically Ambiguous Identifiers	
Comparison Using Wrong Factors	Read Past Null Terminator	
Processor Optimization Removal or Modification of Security-critical Code	Use of memset	
Use of Redundant Code	Copy-Paste Error	
Invokable Control Element with Variadic Parameters	Ellipsis	
Invokable Control Element with Signature Containing an Excessive Number of Parameters	Too Many Parameters	
Floating Point Comparison with Incorrect Operator	Floating Point Equality	
Parent Class without Virtual Destructor Method	delete with Non-Virtual Destructor	
Source Code File with Excessive Number of Lines of Code	Function Too Long	
Class with Virtual Method without a Virtual Destructor	delete with Non-Virtual Destructor	
Use of Object without Invoking Destructor Method	Leak	
Excessive McCabe Cyclomatic Complexity	High Cyclomatic Complexity (Procedure)	
Declaration of Variable with Unnecessarily Wide Scope	Scope Could Be File Static Scope Could Be Local Static	
Compliation with Insufficient Warnings or Errors	Not All Warnings Are Enabled Warnings Not Treated As Errors	
	Loop with Unreachable Exit Condition ('Infinite Loop') Access of Resource Using Incompatible Type ('Type Confusion') Access of Resource Using Incompatible Type ('Type Confusion') Incorrect Authorization Use of Uninitialized Resource Use of Expired File Descriptor Insufficient Visual Distinction of Homoglyphs Presented to User Comparison Using Wrong Factors Processor Optimization Removal or Modification of Security-critical Code Use of Redundant Code Invokable Control Element with Variadic Parameters Invokable Control Element with Signature Containing an Excessive Number of Parameters Floating Point Comparison with Incorrect Operator Parent Class without Virtual Destructor Method Source Code File with Excessive Number of Lines of Code Class with Virtual Method without a Virtual Destructor Use of Object without Invoking Destructor Method Excessive McCabe Cyclomatic Complexity	



CWE:1157	SEI CERT C Coding Standard - Guidelines 03. Expressions (EXP)	Use of <stdarg.h> Feature Cast Removes const Qualifier Risky Integer Promotion Array Parameter Mismatch Ignored Return Value Null Pointer Dereference Uninitialized Variable Assignment in Conditional Empty Branch Statement Empty for Statement Empty witch Statement Empty while Statement Empty while Statement</stdarg.h>
		Missing Parentheses Pointer Arithmetic Condition Contains Side Effects
		Side Effects in sizeof Unchecked Parameter Dereference
		Assignment Result in Expression Inappropriate Operand Type Restrict Qualifier Used
CWE:1164	Irrelevant Code	Unused Value
CWE:1295	Debug Messages Revealing Unnecessary Information	Leftover Debug Code
CWE:1335	Incorrect Bitwise Shift of Integer	Negative Shift Amount Shift Amount Exceeds Bit Width
CWE:1341	Multiple Releases of Same Resource or Handle	Double Close
CWE:1389	Incorrect Parsing of Numbers with Different Radices	Octal Constant



CWE IDS BROADLY MAPPED TO ONE OR MORE CODESONAR C/C++ WARNING CLASSES(CODESONAR V8.0)

The following table lists the CWE IDs that are broadly mapped to one or more CodeSonar C/C++warning classes.

	CWE:2	CWE:14	CWE:15	CWE:19
CWE:20	CWE:22	CWE:23	CWE:24	CWE:25
CWE:26	CWE:27	CWE:28	CWE:29	CWE:30
CWE:31	CWE:32	CWE:33	CWE:34	CWE:35
CWE:36	CWE:37	CWE:38	CWE:39	CWE:40
CWE:73	CWE:74	CWE:77	CWE:78	CWE:79
CWE:81	CWE:88	CWE:89	CWE:90	CWE:91
CWE:93	CWE:94	CWE:95	CWE:99	CWE:113
CWE:114	CWE:116	CWE:117	CWE:118	CWE:119
CWE:120	CWE:121	CWE:122	CWE:123	CWE:124
CWE:125	CWE:126	CWE:127	CWE:128	CWE:129
CWE:130	CWE:131	CWE:133	CWE:134	CWE:135
CWE:136	CWE:137	CWE:138	CWE:147	CWE:170
CWE:188	CWE:189	CWE:190	CWE:191	CWE:192
CWE:193	CWE:194	CWE:195	CWE:196	CWE:197
CWE:199	CWE:200	CWE:201	CWE:203	CWE:209
CWE:212	CWE:221	CWE:226	CWE:227	CWE:228
CWE:229	CWE:230	CWE:231	CWE:232	CWE:237
CWE:238	CWE:239	CWE:240	CWE:241	CWE:242
CWE:243	CWE:244	CWE:248	CWE:251	CWE:252
CWE:253	CWE:254	CWE:255	CWE:256	CWE:259
CWE:265	CWE:266	CWE:269	CWE:274	CWE:275
CWE:280	CWE:281	CWE:284	CWE:285	CWE:287
CWE:290	CWE:310	CWE:311	CWE:312	CWE:313
CWE:316	CWE:318	CWE:319	CWE:320	CWE:321
CWE:323	CWE:325	CWE:326	CWE:327	CWE:328
CWE:330	CWE:331	CWE:332	CWE:334	CWE:335
CWE:336	CWE:337	CWE:338	CWE:339	CWE:340
CWE:341	CWE:342	CWE:343	CWE:344	CWE:350
CWE:355	CWE:359	CWE:361	CWE:362	CWE:363
CWE:364	CWE:366	CWE:367	CWE:368	CWE:369
CWE:371	CWE:377	CWE:378	CWE:379	CWE:386
CWE:387	CWE:388	CWE:389	CWE:390	CWE:391
CWE:392	CWE:394	CWE:395	CWE:396	CWE:397
CWE:398	CWE:399	CWE:400	CWE:401	CWE:404
CWE:405	CWE:410	CWE:411	CWE:412	CWE:413
CWE:414	CWE:415	CWE:416	CWE:417	CWE:426
CWE:427	CWE:435	CWE:436	CWE:438	CWE:440
CWE:421	CWE:452	CWE:453	CWE:454	CWE:456
CWE:457	CWE:459	CWE:465	CWE:466	CWE:467
CWE:468	CWE:469	CWE:400	CWE:471	CWE:474
CWE:400	CWE:476	CWE:477	CWE:478	CWE:479
CWE:480	CWE:470	CWE:482	CWE:483	CWE:484
CWE:485	CWE:481	CWE:482	CWE:491	CWE:497
CWE:501	CWE:506	CWE:507	CWE:508	CWE:510
CWE:511	CWE:514	CWE:515	CWE:522	CWE:523
CWE:529	CWE:530	CWE:532	CWE:538	CWE:525
CWE:543	CWE:546	CWE:532	CWE:550	CWE:552
CWE:543 CWE:557	CWE:558	CWE:561	CWE:550	CWE:552 CWE:563
0002.007	GVVL.000	GWE.301	GVVE.302	0 VVL.303



CWE:567	CWE:569	CWE:570	CWE:571	CWE:572
CWE:573	CWE:581	CWE:582	CWE:585	CWE:587
CWE:588	CWE:589	CWE:590	CWE:595	CWE:597
CWE:601	CWE:605	CWE:606	CWE:607	CWE:609
CWE:610	CWE:611	CWE:613	CWE:614	CWE:615
CWE:624	CWE:626	CWE:628	CWE:629	CWE:635
CWE:641	CWE:642	CWE:643	CWE:651	CWE:657
CWE:662	CWE:663	CWE:664	CWE:665	CWE:666
CWE:667	CWE:668	CWE:669	CWE:670	CWE:671
CWE:672	CWE:673	CWE:674	CWE:675	CWE:676
CWE:680	CWE:681	CWE:682	CWE:683	CWE:684
CWE:685	CWE:686	CWE:687	CWE:688	CWE:690
CWE:691	CWE:693	CWE:695	CWE:696	CWE:697
CWE:698	CWE:699	CWE:700	CWE:703	CWE:704
CWE:705	CWE:706	CWE:707	CWE:710	CWE:711
CWE:712	CWE:713	CWE:714	CWE:715	CWE:717
CWE:718	CWE:719	CWE:720	CWE:721	CWE:722
CWE:723	CWE:724	CWE:725	CWE:726	CWE:727
CWE:728	CWE:729	CWE:730	CWE:731	CWE:732
CWE:733	CWE:734	CWE:735	CWE:736	CWE:737
CWE:738	CWE:739	CWE:740	CWE:741	CWE:742
CWE:743	CWE:744	CWE:745	CWE:746	CWE:747
CWE:748	CWE:749	CWE:750	CWE:751	CWE:752
CWE:753	CWE:754	CWE:755	CWE:757	CWE:758
CWE:760	CWE:761	CWE:762	CWE:763	CWE:764
CWE:765	CWE:768	CWE:770	CWE:771	CWE:772
CWE:773	CWE:775	CWE:780	CWE:783	CWE:785
CWE:786	CWE:787	CWE:788	CWE:789	CWE:798
CWE:800	CWE:801	CWE:802	CWE:803	CWE:805
CWE:806	CWE:807	CWE:808	CWE:809	CWE:810
CWE:811	CWE:812	CWE:813	CWE:815	CWE:816
CWE:817	CWE:818	CWE:819	CWE:820	CWE:821
CWE:822	CWE:823	CWE:824	CWE:825	CWE:826
CWE:828	CWE:832	CWE:833	CWE:834	CWE:835
CWE:839	CWE:840	CWE:843	CWE:844	CWE:845
CWE:846	CWE:847	CWE:848	CWE:849	CWE:850
CWE:851	CWE:852	CWE:853	CWE:854	CWE:855
CWE:857	CWE:858	CWE:859	CWE:860	CWE:861
CWE:863	CWE:864	CWE:865	CWE:866	CWE:867
CWE:868	CWE:871	CWE:872	CWE:873	CWE:874
CWE:875	CWE:876	CWE:877	CWE:878	CWE:879
CWE:880	CWE:882	CWE:883	CWE:884	CWE:885
CWE:886	CWE:887	CWE:888	CWE:889	CWE:890
CWE:891	CWE:892	CWE:893	CWE:894	CWE:895
CWE:896	CWE:897	CWE:898	CWE:899	CWE:900
CWE:901	CWE:902	CWE:903	CWE:904	CWE:905
CWE:906	CWE:907	CWE:908	CWE:909	CWE:910
CWE:912	CWE:913	CWE:915	CWE:916	CWE:922
CWE:928	CWE:929	CWE:930	CWE:931	CWE:932
CWE:933	CWE:934	CWE:935	CWE:938	CWE:943
CWE:944	CWE:945	CWE:946	CWE:947	CWE:949
CWE:950	CWE:951	CWE:954	CWE:956	CWE:957
CWE:958	CWE:959	CWE:960	CWE:961	CWE:962
CWE:963	CWE:964	CWE:966	CWE:967	CWE:968
CWE:969	CWE:970	CWE:971	CWE:972	CWE:973
CWE:974	CWE:975	CWE:976	CWE:977	CWE:978



CWE:979	CWE:980	CWE:981	CWE:982	CWE:983
CWE:984	CWE:985	CWE:986	CWE:987	CWE:988
CWE:989	CWE:990	CWE:991	CWE:992	CWE:993
CWE:994	CWE:995	CWE:997	CWE:998	CWE:1000
CWE:1001	CWE:1002	CWE:1003	CWE:1005	CWE:1006
CWE:1007	CWE:1008	CWE:1009	CWE:1010	CWE:1011
CWE:1012	CWE:1013	CWE:1015	CWE:1016	CWE:1018
CWE:1019	CWE:1020	CWE:1023	CWE:1024	CWE:1025
CWE:1026	CWE:1027	CWE:1028	CWE:1029	CWE:1030
CWE:1031	CWE:1032	CWE:1033	CWE:1037	CWE:1038
CWE:1041	CWE:1056	CWE:1061	CWE:1064	CWE:1071
CWE:1075	CWE:1076	CWE:1077	CWE:1078	CWE:1079
CWE:1080	CWE:1087	CWE:1091	CWE:1097	CWE:1105
CWE:1120	CWE:1121	CWE:1126	CWE:1127	CWE:1128
CWE:1129	CWE:1130	CWE:1131	CWE:1132	CWE:1133
CWE:1134	CWE:1135	CWE:1136	CWE:1137	CWE:1139
CWE:1140	CWE:1141	CWE:1142	CWE:1143	CWE:1144
CWE:1145	CWE:1147	CWE:1148	CWE:1149	CWE:1150
CWE:1152	CWE:1154	CWE:1156	CWE:1157	CWE:1158
CWE:1159	CWE:1160	CWE:1161	CWE:1162	CWE:1163
CWE:1164	CWE:1165	CWE:1166	CWE:1167	CWE:1169
CWE:1170	CWE:1171	CWE:1172	CWE:1176	CWE:1177
CWE:1178	CWE:1179	CWE:1180	CWE:1181	CWE:1182
CWE:1186	CWE:1188	CWE:1194	CWE:1200	CWE:1202
CWE:1204	CWE:1205	CWE:1207	CWE:1208	CWE:1210
CWE:1211	CWE:1212	CWE:1213	CWE:1215	CWE:1217
CWE:1218	CWE:1219	CWE:1226	CWE:1227	CWE:1228
CWE:1229	CWE:1230	CWE:1237	CWE:1238	CWE:1284
CWE:1285	CWE:1295	CWE:1305	CWE:1306	CWE:1307
CWE:1308	CWE:1309	CWE:1335	CWE:1337	CWE:1339
CWE:1340	CWE:1341	CWE:1344	CWE:1345	CWE:1346
CWE:1347	CWE:1348	CWE:1349	CWE:1350	CWE:1353
CWE:1354	CWE:1355	CWE:1358	CWE:1359	CWE:1360
CWE:1361	CWE:1362	CWE:1363	CWE:1364	CWE:1365
CWE:1366	CWE:1368	CWE:1369	CWE:1370	CWE:1371
CWE:1372	CWE:1373	CWE:1375	CWE:1376	CWE:1379
CWE:1382	CWE:1383	CWE:1387	CWE:1389	CWE:1390
CWE:1391	CWE:1396	CWE:1397	CWE:1398	CWE:1399
CWE:1400	CWE:1401	CWE:1402	CWE:1403	CWE:1404
CWE:1405	CWE:1406	CWE:1407	CWE:1408	CWE:1409
CWE:1410	CWE:1412	CWE:1413	CWE:1414	CWE:1415
CWE:1416	CWE:1417	CWE:1418	CWE:1425	

