
Release Notes for the MISRA-C:2004 Compliance Module

M2CM-2.6-QAC-7.2

October 2009

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Overview

Secondary Analyser updated to version 1.4 to include:

- CR13059 - Check 5013 does not take account of # alone on line of code.
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Implementation Changes

Rule	Rule Text	Notes
1.1	All code shall conform to ISO 9899:1990 C programming language, ISO 9899, amended and corrected by ISO/IEC 9899/COR1:1995, ISO/IEC 9899/AMD1:1995, and ISO/IEC 9899/COR2: 1996	Messages 0617, 0618, 0660, 0899, 1012, 1042, 1043, 1044 added.
1.2	No reliance shall be placed on undefined or unspecified behaviour.	Message 0942 added. Messages 0541, 0546, 0675, 0747 deleted.
3.1	All usage of implementation-defined behaviour shall be documented.	Message 0581 added.

4.1	Only those escape sequences that are defined in the ISO C standard shall be used.	Message 3610 added.
6.5	Bit fields of type signed int shall be at least 2 bits long.	Message 3659 added.
8.3	For each function parameter the type given in the declaration and definition shall be identical, and the return types shall also be identical.	Message 3675 added.
10.1	The value of an expression of integer type shall not be implicitly converted to a different underlying type if: a) it is not a conversion to a wider integer type of the same signedness, or b) the expression is complex, or c) the expression is not constant and is a function argument, or d) the expression is not constant and is a return expression	Message 1461 added.
12.6	The operands of logical operators (&&, and !) should be effectively Boolean. Expressions that are effectively Boolean should not be used as operands to operators other than (&&, and !).	Messages 3322, 3377, 4115, 4116 added.
16.3	Identifiers shall be given for all of the parameters in a function prototype declaration.	Message 0652 removed.
17.4	Array indexing shall be the only allowed form of pointer arithmetic.	Messages 0491, 0492 added.
20.1	Reserved identifiers, macros and functions in the standard library, shall not be defined, redefined or undefined.	Messages 4600, 4601 added. Messages 5114, 5214 removed.
20.2	The names of standard library macros, objects and functions shall not be reused.	Messages 4602, 4603, 4604, 4605, 4606, 4607, 4608 added. Message 5115 removed.

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