

## **Closed Defects in Release**

| ID           | Summary                             | State | Reported In<br>Release | Target Release | Workaround   | Release Notes  |
|--------------|-------------------------------------|-------|------------------------|----------------|--|--|
| CODEGEN-2010 | Decomp error involving packed class | Fixed | ARM_5.2.0B1            | ARM_5.2.9      |  | Fixed an issue that could result in a "Decomposition error" abort of the compiler. |
| CODEGEN-1976 | Value of<br>cplusplus is<br>wrong   | Fixed | ARM_5.2.0B1            | ARM_5.2.9      | options. This mode will use the strict definition of | value of this macro  |

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| CODEGEN-1703 | Designated initializer plus struct hack hangs compiler   | Fixed | ARM_5.2.0B1            | ARM_5.2.9      | Avoiding using string constants to initialize objects with flexible array members. Instead, use a brace-initialized array.  For example: struct { int a; char b[]; } mystruct = {0, {'h', 'e', 'l', 'l', 'o'} }; | Fixed a compiler hang caused by initializing flexible array members with string constants. struct {int a; char b[]; } mystruct = {0, "hello"} /* Would cause the compiler to hang and/or crash */ |
| CODEGEN-1640 | MISRA 19.1 misreported: #include statements should only be preceded by other preprocessor directives | Fixed | ARM_5.2.0B1            | ARM_5.2.9      | No practical<br>workaround   |   |
| CODEGEN-1634 | MISRA 7.1<br>misreported: octal<br>tokens in token<br>paste  | Fixed | ARM_5.2.0B1            | ARM_5.2.9      | No practical<br>workaround   |   |
| CODEGEN-1632 | MISRA 15.2<br>misreported: switch<br>clause<br>unconditional<br>break                                |       | ARM_5.2.0B1            | ARM_5.2.9      | Put an explicit<br>break at the end of<br>the compound<br>statement  |   |

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| CODEGEN-1555  | Incorrect result for<br>ullong expression<br>passed to abs  | Fixed | ARM_5.2.0B1            | ARM_5.2.9      | Use llabs instead<br>of abs   | abs(x-y) may compute an incorrect result when x and y are unsigned long long variables.                                  |
| CODEGEN-1438  | Using isnan (and friends) in a custom object library built with 5.2.x compiler means that library cannot be linked with the | Fixed |                        | ARM_5.2.9      | The work around is to rebuild any object files that generated undefined symbols (_FDclass/_Fdpcom p/_FDsign and similar) using a more recent 15.x or 16.x release version of compiler |  |
| CODEGEN-1429  | Software pipelined loop generates different results than loop not pipelined   | Fixed | ARM_5.2.0B1            | ARM_5.2.9      | Avoid unsigned expressions in subscripts or in computing subscripts, or compile with -o1 or -o0.  |  |
| SDSCM00052814 | TMS570LC4357<br>ECC algorithm not<br>supported  | Fixed | ARM_5.2.0B1            | ARM_5.2.9      | There is a backdoor in the implementation that you can use to realize this new algorithm. Use this algorithm  | Some devices, such as TMS570LC4357 Hercules, have a FLASH bank in high memory, and ECC uses the high bits of the address |

| ID | Summary | State | Reported In<br>Release | Target Release | Workaround           | in the ECC<br>Release Notes<br>calculation. |
|----|---------|-------|------------------------|----------------|----------------------|---|
|    |         |       |                        |                | specification: ECC { | Therefore, we need                          |
|    |         |       |                        |                | algo_name :          | to extend the                               |
|    |         |       |                        |                | address_mask =       | participating                               |
|    |         |       |                        |                | 0xfffffff            | address bits mask                           |
|    |         |       |                        |                | hamming_mask =       | in the linker-                              |
|    |         |       |                        |                | /* address */        | generated ECC                               |
|    |         |       |                        |                | 0x53aaa750,          | handling.                                   |
|    |         |       |                        |                | 0xeb45d688,          |   |
|    |         |       |                        |                | 0xa6d54da8,          |   |
|    |         |       |                        |                | 0x9e353c68,          |   |
|    |         |       |                        |                | 0x7e0cfc18,          |   |
|    |         |       |                        |                | 0xfe03fc00,          |   |
|    |         |       |                        |                | 0x01fffc00,          |   |
|    |         |       |                        |                | 0xfe0003f8, /*       |   |
|    |         |       |                        |                | upper */             |   |
|    |         |       |                        |                | 0x2E4B2E4B,          |   |
|    |         |       |                        |                | 0x57155715,          |   |
|    |         |       |                        |                | 0x99A699A6,          |   |
|    |         |       |                        |                | 0xE338E338,          |   |
|    |         |       |                        |                | 0xFCC0FCC0,          |   |
|    |         |       |                        |                | 0x00FF00FF,          |   |
|    |         |       |                        |                | 0xFF0000FF,          |   |
|    |         |       |                        |                | 0xFF0000FF, /*       |   |
|    |         |       |                        |                | lower */             |   |
|    |         |       |                        |                | 0xD1B4D1B4,          |   |
|    |         |       |                        |                | 0x57155715,          |   |
|    |         |       |                        |                | 0x99A699A6,          |   |
|    |         |       |                        |                | 0xE338E338,          |   |
|    |         |       |                        |                | 0xFCC0FCC0,          |   |
|    |         |       |                        |                | 0x00FF00FF,          |   |
|    |         |       |                        |                | 0xFF0000FF,          |   |
|    |         | 1     |                        |                |                      |   |

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|              |  |       |                        |                | 0x00FFFF00,<br>parity_mask = 0x0c<br>mirroring = F021 }<br>If you value your<br>sanity, do not ask<br>where the<br>constants come<br>from.                           |               |
| CODEGEN-1333 | Structure assignment causes compiler to fail with INTERNAL ERROR: Decomposition error                              | Fixed | ARM_5.2.7              | ARM_5.2.8      | Replace struct<br>assignments<br>involving packed<br>structures with a<br>memcpy() call to<br>copy the contents<br>of the RHS of the<br>struct assign to the<br>LHS. |               |
| CODEGEN-1320 | Bit field operations mishandled  | Fixed | ARM_5.2.7              | ARM_5.2.9      |  |               |
| CODEGEN-1311 | Initializer involving<br>empty braces for<br>union member<br>leads to INTERNAL<br>ERROR: ILLEGAL<br>INITIALIZATION | Fixed | ARM_5.2.7              | ARM_5.2.8      |  |               |

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| SDSCM00052734 | Internal error in<br>trampoline<br>generation when<br>user defines data<br>symbol named<br>"signal" | Fixed | ARM_5.2.0B1            | ARM_5.2.9      | It is a user error to have two different objects in the system with the same name. Rename one of the objects. |   |
| SDSCM00052864 | struct field in<br>register is not<br>sign-extended to<br>32 bits before 32-<br>bit compare         | Fixed | ARM_5.2.0              | ARM_5.2.8      | Declare the local<br>struct as volatile   | The compiler can place small structs in registers for fast access. In this case, the compiler fails to sign-extend a 16-bit struct member to 32-bits before a 32-bit comparison. This can happen for structs 32 bits or less, with any integer field 16 bits or less. |

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| SDSCM00052786 | TI ARM compiler<br>fails to build library  | Fixed | ARM_5.2.7              | ARM_5.2.8      | Put the CCS utils sub-directories (c:/ti/ccsv6/utils/bin and c:/ti/ccsv6/utils/cyg win, for example) at the front of your PATH. Another alternative is to invoke mklib from inside a bash console (like MKS, for example). |               |
| SDSCM00052888 | Illegal instruction inside IT sequence causes assembler to abort with segmentation fault | Fixed | ARM_5.2.0B1            | ARM_5.2.8      |  |               |
| SDSCM00052869 | Incorrect opcode<br>for LDMED and<br>LDMFA   | Fixed | ARM_5.2.0              | ARM_5.2.8      | None   |               |
| SDSCM00052861 | NULL deref when using minimize_trampolin es=postorder                                    | Fixed | ARM_5.2.0              | ARM_5.2.8      | As a workaround, use the option trampolines=off and do not use the option minimize_trampolines   |               |

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| SDSCM00052854 | Compiler crashes when MISRA checking is enabled and an empty struct initializer is used                | Fixed | ARM_5.2.0B1            | ARM_5.2.8      | Use {0}, not {}, to initialize the struct |               |
| SDSCM00052833 | Linker INTERNAL<br>ERROR with object<br>files with DWARF<br>information<br>compiled by IAR<br>compiler | Fixed | ARM_5.2.0B1            | ARM_5.2.8      | Add option<br>compress_dwarf=o<br>ff      |               |
| SDSCM00052805 | Decomposition error on while(*ptr++) where ptr points to volatile                                      | Fixed | ARM_5.2.0B1            | ARM_5.2.8      | No workaround.                            |               |
| SDSCM00052723 | Compiler seg faults with use of opt_level=4  | Fixed | ARM_5.2.0B1            | ARM_5.2.7      | Use optimization level 3 or below.        |               |
| SDSCM00052699 | Compiler discards write to a volatile local struct member  | Fixed | ARM_5.2.0B1            | ARM_5.2.8      | No workaround.                            |               |
| SDSCM00052688 | Compiler fails to acceptMRC(15,  | Fixed | ARM_5.2.0              | ARM_5.2.8      | No workaround.                            |               |

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| SDSCM00052565 | On MSP432, giving #pragma vector= non function name arguments causes segfault                      |       | ARM_5.2.0B1            | ARM_5.2.7      | Use symbol names as arguments to #pragma vector=.   |               |
| SDSCM00052529 | Optimizer assumes enum variable can only have value of enumeration constants                       |       | ARM_5.2.0B1            | ARM_5.2.7      | Don't make enumerated types with constants only for 0 and 1 if other values may be used. Either add a third value, or use values different than 0 and 1, or avoid using values that aren't the enumeration constants. |               |
| SDSCM00052430 | 64-bit CRC values<br>are truncated to<br>32-bits in linker<br>map file and linker<br>XML info file | Fixed | ARM_5.2.0B1            | ARM_5.2.7      | Use the Linux<br>toolset to generate<br>the linker map file<br>and linker XML<br>info file, or just<br>ignore the<br>reported CRC value<br>in those files.  |               |
| SDSCM00052397 | Optimizer crashes<br>on unreachable<br>integer divide-by-<br>zero                                  | Fixed | ARM_5.2.0B1            | ARM_5.2.6      | None.   |               |

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| SDSCM00052374 | COMDAT functions may be incorrectly specialized when using -o4                                      | Fixed | ARM_5.2.0B1            | ARM_5.2.7      | None.  |               |
| SDSCM00052339 | demangler<br>output option<br>does not work at<br>all   | Fixed | ARM_5.2.0B1            | ARM_5.2.6      | armdem file.asm > file.dis   |               |
| SDSCM00052301 | Linker crashes<br>when<br>ecc:ecc_error is<br>used  | Fixed | ARM_5.2.0B1            | ARM_5.2.6      | None.  |               |
| SDSCM00052281 | ARM Parser<br>Segfaults on OSX<br>at Template Class   | Fixed | ARM_5.2.0B1            | ARM_5.2.6      | None.  |               |
| SDSCM00052265 | Flexible array with initializer not handle correctly  | Fixed | ARM_5.2.0B1            | ARM_5.2.6      | None.  |               |
| SDSCM00052257 | Use of opt_level=4 causes link to fail with message symbol "name" redeclared with incompatible type | Fixed | ARM_5.2.0B1            | ARM_5.2.6      | Change all anonymous members of the types involved to have an explicit name. |               |
| SDSCM00052238 | Strong function<br>symbol removed<br>from linked ICODE<br>with -o4                                  | Fixed | ARM_5.2.0B1            | ARM_5.2.7      | Useopt_level=3 or below.   |               |

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| SDSCM00052216 | M0 little-endian<br>double multiply<br>incorrectly gives<br>+Inf  | Fixed | ARM_5.2.0B1            | ARM_5.2.6      | The source code to the RTS library can be found in a directory location similar to C:\ti\cup ti\cup cos\cup to the ti\cup to to the to your project: .if .TMS470_BIG_DOU BLE POP {res1, op1e}; Grab that stuff we stored off .else POP {res1}; Grab that stuff we stored off .else for the tile to your project: .if .else pop for the tile to your project: .if .TMS470_BIG_DOU BLE POP {res1, op1e}; Grab that stuff we stored off .else pop for the tile tile the tile tile to your project: .if .else pop for the tile tile tile tile tile tile tile til |               |
| SDSCM00052185 | In certain cases at opt_level=2 or higher, compiler gets load and store instructions in the wrong order | Fixed | ARM_5.2.0B1            | ARM_5.2.6      | Retain "volatile" in<br>the cast, or remove<br>it from the<br>definition.  |               |

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| SDSCM00052144 | RTS libraries do<br>not get<br>automatically built<br>if the library is<br>missing (Mac OS<br>X) | Fixed | ARM_5.2.0B1            | ARM_5.2.6      | Copy the libraries from a Windows/Linux machine.  |               |
| SDSCM00052140 | math.h should not<br>have a using<br>statement for abs   | Fixed | ARM_5.2.0B1            | ARM_5.2.5      | Include cmath instead of math.h.  |               |
| SDSCM00052114 | Windows Stack Size for Parser Should be Raised   | Fixed | ARM_5.2.0B1            | ARM_5.2.5      | There are at least two options: 1. On Windows, if you have Visual Studio available, the stack for an executable may be raised with editbin. For example, to raise the stack to 8MB for the acpia6x parser, you would use: editbin /stack:8388608 acpia6x.exe 2. Use the linux toolchain. The default stack is much higher. Even if that limit is reached, the soft limit for the stack size of user |               |

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|               |   |       |                        |                | applications may be raised with ulimit. For example, to raise the stack to 16MB, you would use: ulimit -S -s 16384 (This could be placed in the startup script, such as .bashrc) |               |
| SDSCM00052083 | Error correcting codes may not be generated for sections beyond the first in a memory region                              | Fixed | ARM_5.2.0B1            | ARM_5.2.5      | Place each section<br>that needs ECC in<br>a separate memory<br>region.  |               |
| SDSCM00052014 | Cannot read files with inode > 4B   | Fixed | ARM_5.2.0B1            | ARM_5.2.5      | None.  |               |
| SDSCM00051958 | Linker incorrectly splits text section. Section .text.1 is too long. It overwrites the trampoline at the start of .text.2 | Fixed | ARM_5.2.0B1            | ARM_5.2.5      | Disabling split placement of the section will avoid this issue. Otherwise disable_early_conso lidation will also avoid this behavior.  |               |

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| SDSCM00051870 | Underflow on<br>conversion from<br>double to float<br>gives Inf instead of<br>0.0   | Fixed | ARM_5.2.0B1            | ARM_5.2.5      | Avoid conversions from double to float, or use the 16-bit mode library. The 16-bit mode library is not available on Thumb 2 only devices such as Cortex-M3. |               |
| SDSCM00051848 | Calling function<br>that returns a<br>structure causes<br>compiler to fail<br>with: INTERNAL<br>ERROR: no match<br>for CALL | Fixed | ARM_5.2.0B1            | ARM_5.2.5      | None.   |               |
| SDSCM00051825 | Standard library<br>headers may cause<br>errors with the<br>float_operations_all<br>owed option                             | Fixed | ARM_5.2.0              | ARM_5.2.5      | Do not use the<br>float_operations_all<br>owed option.  |               |

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| SDSCM00051809 | "if (P) X=A; else<br>X=B;" may compile<br>incorrectly when A<br>and B are 0/1 and<br>P is 0/1 with a side<br>effect | Fixed | ARM_5.2.0B1            | ARM_5.2.5      | Typically such an IF is equivalent to "X=P" or "X=!P"; write it that way to avoid the problem. Adding statements to either arm of the IF can also help. |               |
| SDSCM00051762 | Dot expression adding align(64) computes hugely incorrect size  | Fixed | ARM_5.2.0B1            | ARM_5.2.5      | None.   |               |
| SDSCM00051740 | AP modified before V4 saved, potentially corrupting the stack pointer   | Fixed | ARM_5.2.0B1            | ARM_5.2.5      | None.   |               |
| SDSCM00051709 | incompatible<br>wchar_t types<br>diagnostic gives<br>wrong type for<br>one file                                     | Fixed | ARM_5.2.0B1            | ARM_5.2.4      | Ignore the settings<br>reported for the<br>size of wchar_t  |               |
| SDSCM00051708 | Loop downcounter<br>may be mistakenly<br>typed too small  | Fixed | ARM_5.2.0B1            | ARM_5.2.4      | Lower the level of optimization.  |               |

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| SDSCM00051636 | Therom option<br>should not be<br>exposed for any<br>target except<br>C6000 | Fixed | ARM_5.2.0              | ARM_5.2.4      | None.   |               |
| SDSCM00051629 | Compiler seg faults<br>in C++ copy<br>constructor call                      | Fixed | ARM_5.2.0B1            | ARM_5.2.4      | In some cases, using a different ABI option may avoid this error. However, the most safe option is to avoid the use of a copy constructor.                            |               |
| SDSCM00051621 | Redeclaring extern "C" function as static causes parser to hang             | Fixed | ARM_5.2.0B1            | ARM_5.2.4      | Use consistent function declarations.   |               |
| SDSCM00051602 | Parser may seg<br>fault on template<br>arguments with !<br>operator         | Fixed | ARM_5.2.0              | ARM_5.2.4      | Using the strict_ansi option will avoid this behavior. If this is not possible, changing template arguments of the form !foo to 0==foo will also avoid this behavior. |               |

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| SDSCM00051485 | Incorrect<br>reordering of<br>nested op= with<br>++                                 | Fixed | ARM_5.2.0B1            | ARM_5.2.9      | Don't embed "X op= Y++" under another assignment operator.   | An expression like "a += b += c++" will produce the wrong answer. The problem is specific to sub-expressions of the form "X op= Y++" that occur under another assignment operator. |
| SDSCM00051472 | Conditionals that use shift operator may be optimized out                           | Fixed | ARM_5.2.0B1            | ARM_5.2.3      | This behavior may be avoided by lowering the optimization level to -01 or -00. Moving the conditional check result to a variable so that the shift is not in the conditional may in some cases also avoid this behavior. |  |
| SDSCM00051463 | Automatic library resolution fails when a a load image file is included in the link | Fixed | ARM_5.2.0B1            | ARM_5.2.3      | Specify the specific library to link against instead of using libc.a.  |  |

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| SDSCM00051412 | Compiler<br>generates illegal<br>assembly code  | Fixed | ARM_5.2.0              | ARM_5.2.3      | The use of the constant 0x80000000 may cause the bug. Exchanging the constant with a smaller value will avoid the issue. If not possible, raising the optimization level may avoid the issue. |               |
| SDSCM00051312 | Linker mistakenly issues output section warning diagnostic for sections pre-bound to hard coded addresses | Fixed | ARM_5.2.0B1            | ARM_5.2.2      | Ignore the warning  |               |
| SDSCM00051241 | Output section splitting creates a zero-length section  | Fixed | ARM_5.2.0B1            | ARM_5.2.2      | 1) Do not split the section in question. 2) Change the zero-length section so that it has at least one more byte.   |               |

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| SDSCM00051238 | The Cortex-R4 silicon defect for VMRSEQ APSR_nzcv, FPSCR is incorrectly warned about if the destination is an ARM register | Fixed | ARM_5.2.0B1            | ARM_5.2.2      | None  |               |
| SDSCM00051212 | MSP 4.4.0 changes to _lock.h declaration of _nop(void) instead of _nop() breaking driverlib                                | Fixed | ARM_5.2.0B1            | ARM_5.2.0      | Update _lock.h in the rts source folder, rename the library you are using, and it will automatically be rebuilt during next compile. To find compiler install location, click on project properties and click on: Resource->Linked Resources The "Path Variable" will have an entry for: CG_TOOL_ROOT c:\text{\text{Winstall_location\text{\tex |               |

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|               |  |       |                        |                | .₩include₩_lock.h Edit both of above files and change below line 47: _CODE_ACCESS void _nop(void); to remove void argument and instead be: _CODE_ACCESS void _nop(); Rename the library you are using with suffix .old: .₩lib₩rtsx_lc_sd_ea bi.lib change to a temp name .₩lib₩rtsx_lc_sd_ea bi.lib.old Rebuild your project and the rts should automatically rebuild. |               |
| SDSCM00051128 | Alias missed on address of local passed as function argument | Fixed | ARM_5.2.0B1            | ARM_5.2.0      | Use the -ma (<br>aliased_variables)<br>option.   |               |
| SDSCM00051112 | Missing<br>aeabi_localeconv                                  | Fixed | ARM_5.2.0B1            | ARM_5.2.5      | Link with another vendor's toolset   |               |

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| SDSCM00051110 | _aeabi_{i,l}div0<br>should be extern,<br>not static  | Fixed | ARM_5.2.0B1            | ARM_5.2.3      | Use a different vendor's RTS library.  |               |
| SDSCM00051097 | Output section splitting creates a zero-length section   | Fixed | ARM_5.2.0B1            | ARM_5.2.0      | 1) Do not split the section in question. 2) Change the zero-length section so that it has at least one more byte.  |               |
| SDSCM00051039 | 64-bit divide routine does not return results as documented  | Fixed | ARM_5.2.0B1            | ARM_5.2.0      | Don't rely on integer division by zero to return any reasonable value.   |               |
| SDSCM00050992 | The optimizer should not make a symbol an alias if it has either the location or code_section pragmas applied. | Fixed | ARM_5.2.0B1            | ARM_5.2.2      | Available workarounds are to: 1. Reduce the optimization level to -o2. 2. If using a COFF abi, you can move the functions into separate files. 3. Add anasm("NOP") to the function which will prevent an alias from being created. |               |

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| SDSCM00050973 | The function<br>aeabi_uidiv is<br>missing in the RTS                                | Fixed | ARM_5.2.0B1            | ARM_5.2.0      | Link with another vendor's linker, or add a function namedaeabi_uidiv which takes two unsigned int arguments and callsaeabi_uidivmod |               |
| SDSCM00050959 | SIGSSEGV when using % in an option argument   | Fixed | ARM_5.2.0B1            | ARM_5.2.3      | Don't use any printf-special characters like % in a compiler argument  |               |
| SDSCM00050834 | Assembler doesn't generate relocation entry for weak symbol                         | Fixed | ARM_5.2.0B1            | ARM_5.2.7      | Use<br>gen_func_subsectio<br>ns.   |               |
| SDSCM00050764 | Bound function<br>has incorrect<br>address in DWARF<br>debug info                   | Fixed | ARM_5.2.0B1            | ARM_5.2.1      | Set a breakpoint at<br>the bound function<br>and run to it,<br>rather than<br>attempting to step<br>into it.                         |               |
| SDSCM00050005 | Compiler<br>mistakenly issues<br>MISRA diagnostic<br>12.9 for a float<br>point type | Fixed | ARM_5.2.0B1            | ARM_5.2.8      |  |               |

| ID            | Summary  | State | Reported In<br>Release | Target Release | Workaround  | Release Notes  |
|---------------|--|-------|------------------------|----------------|---|--|
| SDSCM00049912 | Float NaN<br>converted to<br>double incorrectly<br>turned into Inf | Fixed | ARM_5.2.0B1            | ARM_5.2.6      | Manually check for<br>NaN values where<br>they are possible if<br>software floating<br>point conversions<br>are required.               |  |
| SDSCM00046409 | ldrex pointer<br>parameter should<br>be "volatile void*"           | Fixed | ARM_5.2.0B1            | ARM_5.2.7      | None.   |  |
| CODEGEN-26    | mklib generates<br>segmentation fault<br>on MacOS X                | Fixed | ARM_5.2.7              | ARM_5.2.8      | Make RTS library using a different host (Linux or PC), then copy the newly created RTS object library into the install area on the Mac. | The mklib in v5.2.7 CGT generates segmentation fault on MacOS X. The error occurs when mklib is invoked both manually via command line as well as automatically via CCS build. |

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