

## MARTe2-core - Test #299

### MARTe2 QA-audit (v0.11)

18.01.2016 11:03 - André Neto

<b>Status:</b> Closed	<b>Start date:</b> 18.01.2016
<b>Priority:</b> Normal	<b>Due date:</b> 27.01.2016
<b>Assignee:</b>	<b>% Done:</b> 0%
<b>Category:</b>	<b>Estimated time:</b> 0.00 hour
<b>Target version:</b> 0.11	<b>Spent time:</b> 0.00 hour

#### Description

## Requirements review

**Date of the review:** 08/02/2016

**Person who did the review:** Ivan Herrero

**Version of requirements:** 0.11

**Result of review:** N/A

**List of non-conformities:** N/A

**Comments:** As per the original MARTe implementation, the user stories of this sprint are support functions and do not require formal requirements.

## Architecture & design review

**Date of the review:** 08/02/2016

**Person who did the review:** Ivan Herrero

**Version of architecture & design document:** 0.10

**Result of review:** N/A

**List of non-conformities:** N/A

**Comments:** As per the original MARTe implementation, the user stories of this sprint are support functions and do not require formal design.

## Code and documentation review

**Date of the review:** 08/02/2016

**Person who did the review:** Ivan Herrero

**Version of source code:** 0.11

**Result of review:** PASS

**List of non-conformities:**

- [\[#296\]](#) Some linting issues remain. See [#188](#) as it was branched from here and many issues were fixed there.
- [\[#188\]](#) During Specific Walk:
  - File ./Source/Core/BareMetal/L3Streams/IOBufferIntegerPrint.cpp line 531: MARTe::BitSetToInteger(?, ?, ?, 8?, !=0) [#1](#)
  - File ./Source/Core/BareMetal/L3Streams/BitSetToInteger.h line 345: MARTe::BitSetToBitSet([1], 0, 8, 1, ?, ?, 8?, !=0) [#2](#)
  - File ./Source/Core/BareMetal/L3Streams/BitSetToInteger.h line 286: MARTe::BSToBS([1], 0, 8, 1, ?, 31? | 0?, 8?, !=0) [#3](#)
  - File ./Source/Core/BareMetal/L3Streams/BitSetToInteger.h line 105: MARTe::MemoryOperationsHelper::Copy([4], ?, 5?) [#31](#)
  - ./Source/Core/BareMetal/L1Portability/Environment/Generic/MemoryOperationsHelper\_CLIB\_Generic.cpp:58:1: Warning 669: Possible data overrun for function 'memcpy(void \*, const void \*, unsigned long)', argument 3 (size=5) exceeds argument 1

(size=4)  
./Source/Core/BareMetal/L3Streams/BitSetToInteger.h:101:1: Info 831: Reference cited in prior message  
./Source/Core/BareMetal/L3Streams/BitSetToInteger.h:105:1: Info 831: Reference cited in prior message  
./Source/Core/BareMetal/L3Streams/BitSetToInteger.h:227:1: Info 831: Reference cited in prior message  
./Source/Core/BareMetal/L3Streams/BitSetToInteger.h:242:1: Info 831: Reference cited in prior message  
./Source/Core/BareMetal/L3Streams/BitSetToInteger.h:286:1: Info 831: Reference cited in prior message  
./Source/Core/BareMetal/L3Streams/BitSetToInteger.h:345:1: Info 831: Reference cited in prior message  
./Source/Core/BareMetal/L3Streams/IOBufferIntegerPrint.cpp:528:1: Info 831: Reference cited in prior message  
./Source/Core/BareMetal/L3Streams/IOBufferIntegerPrint.cpp:531:1: Info 831: Reference cited in prior message  
./Source/Core/BareMetal/L4Configuration/ParserI.cpp:51:80: Note 9138: null statement not in line by itself [MISRA C++ Rule 6-2-3]

## Unit test review

**Date of the review:** 08/02/2016

**Person who did the review:** Ivan Herrero

**Version of unit tests:** 0.11

**Result of coverage tests review:** PASS

**Result of functional tests review:** PASS

**Result of review:** PASS

### List of non-conformities:

- [#296](#) The following tests fail on Windows platform:  
[-----] Global test environment tear-down  
[=====] 2502 tests from 75 test cases ran. (77228 ms total)  
[ PASSED ] 2492 tests.  
[ FAILED ] 10 tests, listed below:  
[ FAILED ] DirectoryGTest.TestGetLastAccessTime\_ReRead  
[ FAILED ] DirectoryGTest.TestGetLastAccessTime\_ReRead2  
[ FAILED ] LoadableLibraryGTest.TestOpenCloseLibrary  
[ FAILED ] LoadableLibraryGTest.TestCloseLibrary  
[ FAILED ] LoadableLibraryGTest.TestLoadFunction  
[ FAILED ] LoadableLibraryGTest.TestLoadFunctionSquareBracketsOperator  
[ FAILED ] LoadableLibraryGTest.TestGetModule  
[ FAILED ] MutexSemGTest.TestIsRecursive  
[ FAILED ] MutexSemGTest.TestRecursiveOff  
[ FAILED ] ThreadsGTest.TestBeginThreadStackSize0
- [#188](#)  
Object::Clone(), and Object::Initialise() are not tested, but it is fine because they are not really implemented, yet. LexicalAnalyzer.cpp, IOBufferFloatPrint.cpp, and IOBuffer.cpp have some error handling branches not covered, that consist of a bit more than a simple error reporting sentence. Anyway, they have been left uncovered, because the error is hard to simulate.  
The following tests on Windows platform fail:  
[-----] Global test environment tear-down  
[=====] 2502 tests from 75 test cases ran. (78098 ms total)  
[ PASSED ] 2462 tests.  
[ FAILED ] 40 tests, listed below:  
[ FAILED ] AnyObjectGTest.TestGetType\_Scalar\_String  
[ FAILED ] AnyTypeGTest.TestAnyType\_ConstCharPointerToConst  
[ FAILED ] BufferedStreamIGTest.TestPrintFormatted\_CCString\_BufferSize\_1  
[ FAILED ] BufferedStreamIGTest.TestPrintFormatted\_CCString\_BufferSize\_2  
[ FAILED ] BufferedStreamIGTest.TestPrintFormatted\_CCString\_BufferSize\_8  
[ FAILED ] BufferedStreamIGTest.TestPrintFormatted\_CCString\_BufferSize\_64  
[ FAILED ] BufferedStreamIGTest.TestPrintFormatted\_CCString\_BufferSize\_128  
[ FAILED ] BufferedStreamIGTest.TestPrintFormatted\_CCString\_BufferSize\_1024  
[ FAILED ] ConfigurationDatabaseGTest.TestCopy  
[ FAILED ] DirectoryGTest.TestGetLastAccessTime\_ReRead  
[ FAILED ] DirectoryGTest.TestGetLastAccessTime\_ReRead2  
[ FAILED ] IOBufferGTest.TestPrintFormatted\_CCString  
[ FAILED ] JsonParserGTest.TestParseVector

[ FAILED ] JsonParserGTest.TestParseMatrix  
[ FAILED ] LoadableLibraryGTest.TestOpenCloseLibrary  
[ FAILED ] LoadableLibraryGTest.TestCloseLibrary  
[ FAILED ] LoadableLibraryGTest.TestLoadFunction  
[ FAILED ] LoadableLibraryGTest.TestLoadFunctionSquareBracketsOperator  
[ FAILED ] LoadableLibraryGTest.TestGetModule  
[ FAILED ] MutexSemGTest.TestIsRecursive  
[ FAILED ] MutexSemGTest.TestRecursiveOff  
[ FAILED ] StreamMemoryReferenceGTest.TestAnyTypeOperator  
[ FAILED ] StreamStringGTest.TestAnyTypeOperator  
[ FAILED ] ThreadsGTest.TestBeginThreadStacksize0  
[ FAILED ] TypeConversionGTest.TestInt32ToArrayVector  
[ FAILED ] TypeConversionGTest.TestUInt32ToArrayVector  
[ FAILED ] TypeConversionGTest.TestFloat32ToArrayVector  
[ FAILED ] TypeConversionGTest.TestCStringToArrayVector  
[ FAILED ] TypeConversionGTest.TestCharArrayToInt32Vector  
[ FAILED ] TypeConversionGTest.TestCharArrayToUInt32Vector  
[ FAILED ] TypeConversionGTest.TestCharArrayToFloat32Vector  
[ FAILED ] TypeConversionGTest.TestFloat32ToArrayMatrixStaticToStatic  
[ FAILED ] TypeConversionGTest.TestCharArrayToFloat32MatrixStaticToStatic  
[ FAILED ] TypeConversionGTest.TestCharArrayToFloat32MatrixStaticToHeap  
[ FAILED ] TypeConversionGTest.TestCharArrayToCStringVector  
[ FAILED ] TypeConversionGTest.TestCharArrayToCStringMatrix  
[ FAILED ] StandardParserGTest.TestParseVector  
[ FAILED ] StandardParserGTest.TestParseMatrix  
[ FAILED ] XMLParserGTest.TestParseVector  
[ FAILED ] XMLParserGTest.TestParseMatrix

## Integration test review

**Date of the review:** 08/02/2016

**Person who did the review:** Ivan Herrero

**Version of integration tests:** 0.11

**Result of review:** N/A

**List of non-conformities:** N/A

**Comments:** As per the original MARTe implementation, the user stories of this sprint are support functions and do not require formal integration tests.

## Acceptance test review

**Date of the review:** 08/02/2016

**Person who did the review:** Ivan Herrero

**Version of acceptance tests:** 0.11

**Result of review:** N/A

**List of non-conformities:** N/A

**Comments:** As per the original MARTe implementation, the user stories of this sprint are support functions and do not require formal acceptance tests.

## History

#1 - 18.01.2016 13:05 - Ivan Herrero

- Due date set to 27.01.2016

#2 - 08.02.2016 10:59 - Ivan Herrero

- Description updated

- Status changed from New to Closed