

## MARTe2-core - User story #152

### Lint: Memory

28.06.2015 19:01 - André Neto

<b>Status:</b> Closed	<b>Start date:</b> 28.06.2015
<b>Priority:</b> Normal	<b>Due date:</b>
<b>Assignee:</b>	<b>% Done:</b> 0%
<b>Category:</b>	<b>Estimated time:</b> 0.00 hour
<b>Target version:</b> 0.2	<b>Spent time:</b> 0.00 hour
<b>Git branch (link):</b>	<b>SVN commit (link/?p=rev):</b>
<b>Git merge to develop (link):</b>	

#### Description

Verify and implement coding standard using Flexelint.

### Source code files modified

- Source/Core/L0Portability/Memory.cpp (deleted)
- Source/Core/L0Portability/Memory.h
- Source/Core/L0Portability/OperatingSystem/Linux/MemoryOS.h (deleted)
- Source/Core/L0Portability/OperatingSystem/Windows/MemoryOS.h (deleted)
- Source/Core/L0Portability/OperatingSystem/Linux/MemoryOS.cpp
- Source/Core/L0Portability/OperatingSystem/Windows/MemoryOS.cpp
- Test/Core/L0Portability/MemoryTest.cpp
- Test/Core/L0Portability/MemoryTest.h
- Test/Core/L0Portability/ThreadInformation.cpp
- Test/Core/L0Portability/ThreadDatabase.cpp
- Test/GTest/MemoryGTest.cpp

### Architecture & design review

**Date of the review:** 29/07/2015

**Person who did the review:** Andre Neto

**Version of architecture & design document:** N/A. As per the original MARTe implementation, this is a support function and does not require formal design in UML.

**Result of review:** N/A

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

### Code and documentation review

**Date of the review:** 29/07/2015

**Person who did the review:** Andre Neto

**Result of review:** PASS (MISRA compliant)

**List of non-conformities:** N/A (I have made some minor cosmetic changes to the documentation).

### Unit test review

**Date of the review:** 29/07/2015

**Person who did the review:** Andre' Neto

**Result of coverage tests review:** PASS

**Result of functional tests review:** PASS

**Result of review:** FAIL (but OK for release. See notes below).

**List of non-conformities:**

The following functions test more than one thing and shall be broken down into different functions. This has no impact on the coverage/functional aspects of the test, but will greatly increase readability of the tests and in case of problems will greatly simplify the identification of the culprit :

- MemoryTest::TestRealloc()
- MemoryTest::TestCopy()
- MemoryTest::TestMove()
- MemoryTest::TestSet()
- MemoryTest::TestSearch()

See [#179](#).

See [#202](#).

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**Associated revisions**

**Revision 95464f57 - 27.07.2015 18:53 - Giuseppe Ferro**

Work in progress: Memory code implementation and linting.  
#152

**Revision 46be9056 - 28.07.2015 10:54 - Giuseppe Ferro**

Refactoring and linting of Memory done.  
#152

**Revision f6e7eb63 - 28.07.2015 11:41 - Giuseppe Ferro**

Minor changes on Memory tests.  
#152

**Revision 12ec9513 - 29.07.2015 10:29 - André Neto**

Linted and tested Memory #152.

This work was performed by creating a new branch (#152\_Memory) from develop and merging it with linth-threads.

**Revision dd167a4e - 04.08.2015 17:09 - Giuseppe Ferro**

List of Changes:

-Splitted tests accordingly with unit test revision in #152

User Story: #179

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**History**

**#1 - 02.07.2015 17:20 - Riccardo Vitelli**

- Target version set to Backlog

**#2 - 02.07.2015 18:07 - Riccardo Vitelli**

- Target version changed from Backlog to 0.2

**#3 - 02.07.2015 18:08 - Riccardo Vitelli**

- Status changed from New to Code: Impl

**#4 - 03.07.2015 17:59 - Riccardo Vitelli**

- Assignee set to Riccardo Vitelli

**#5 - 27.07.2015 10:31 - Riccardo Vitelli**

- Assignee deleted (Riccardo Vitelli)

**#6 - 27.07.2015 17:33 - Riccardo Vitelli**

- Assignee set to Giuseppe Ferro

**#7 - 28.07.2015 11:32 - Giuseppe Ferro**

- Status changed from Code: Impl to Code: Rev

**#8 - 28.07.2015 11:32 - Giuseppe Ferro**

Code implementation done. #8db077e

**#9 - 28.07.2015 11:33 - Giuseppe Ferro**

- Assignee deleted (Giuseppe Ferro)

**#10 - 29.07.2015 08:14 - André Neto**

- Assignee set to André Neto

**#11 - 29.07.2015 09:04 - André Neto**

- Description updated

**#12 - 29.07.2015 09:13 - André Neto**

- Description updated

**#13 - 29.07.2015 09:14 - André Neto**

- Description updated

**#14 - 29.07.2015 09:40 - André Neto**

- Description updated

**#15 - 29.07.2015 10:10 - Riccardo Vitelli**

- Status changed from Code: Rev to Unit: Impl

**#16 - 29.07.2015 10:10 - Riccardo Vitelli**

- Assignee changed from André Neto to Giuseppe Ferro

**#17 - 29.07.2015 10:10 - Riccardo Vitelli**

- Status changed from Unit: Impl to Unit: Rev

**#18 - 29.07.2015 10:10 - Riccardo Vitelli**

- Assignee changed from Giuseppe Ferro to André Neto

**#19 - 29.07.2015 10:10 - Riccardo Vitelli**

- Assignee deleted (André Neto)

**#20 - 29.07.2015 10:44 - André Neto**

Code and unit test review made on revision 12ec9513.

Branch #152\_Memory merged on develop branch (commit 12ec9513).

Branch #152\_Memory deleted.

**#21 - 11.08.2015 17:57 - André Neto**

- Description updated

**#22 - 08.09.2015 12:38 - André Neto**

- Description updated

- Status changed from Unit: Rev to Closed