

## MARTe2-core - User story #244

### Windows file implementation

20.10.2015 11:17 - André Neto

<b>Status:</b> Closed	<b>Start date:</b> 20.10.2015
<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> 0.8	<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

Implement the Windows File stream based on the previous MARTe implementation.

### Source code files modified

### Architecture & design review

**Date of the review:** 23/10/2015

**Person who did the review:** André 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:** 20/11/2015

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

**Result of review:** PASS

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

### Unit test review

**Date of the review:** 20/11/2015

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

**Result of coverage tests review:** PASS

**Result of functional tests review:** N/A

**Result of review:** PASS

**List of non-conformities:**

Note: some tests unrelated to this user-story are failing on Windows:

```
[ FAILED ] BufferedStreamIGTest.TestPrintFormatted_Pointer_BufferSize_1  
[ FAILED ] BufferedStreamIGTest.TestPrintFormatted_Pointer_BufferSize_2
```

```
[ FAILED ] BufferedStreamIGTest.TestPrintFormatted_Pointer_BufferSize_8
[ FAILED ] BufferedStreamIGTest.TestPrintFormatted_Pointer_BufferSize_64
[ FAILED ] BufferedStreamIGTest.TestPrintFormatted_Pointer_BufferSize_128
[ FAILED ] BufferedStreamIGTest.TestPrintFormatted_Pointer_BufferSize_1024
[ FAILED ] IOBufferGTest.TestPrintFormatted_Pointer
[ FAILED ] IOBufferGTest.TestPrintFormattedMultiple
```

## Associated revisions

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### Revision 34046b39 - 30.10.2015 08:51 - Ivan Herrero

#244 - Preliminary version of BasicFile implementation for Windows

- Add FileSystem/L1Portability (with Environment\Windows inside)
- Add BasicFile.h
- Add BasicFile.cpp for Windows
- Update existing makefiles and create new ones for FileSystem and BasicFile.

### Revision 48698cdf - 30.10.2015 10:18 - Ivan Herrero

#244 - Preliminary version of BasicFile implementation for Windows

- Add FileSystem/L1Portability (with Environment\Windows inside)
- Add BasicFile.h
- Add BasicFile.cpp for Windows
- Update existing makefiles and create new ones for FileSystem and BasicFile.

### Revision bfb12767 - 04.11.2015 19:22 - Ivan Herrero

#244 - Finish BasicFile implementation for Windows

- Document all methods of BasicFile.
- Add hidden implementation by means of BasicFileProperties.
- Change calls to 32 bits versions of Win32 file functions with its 64 bits counterparts (functions tailed with "Ex").
- Add implementation for read/write methods with timeout.

### Revision a01fc168 - 05.11.2015 17:42 - Ivan Herrero

#244 - Add error handling reporting for system calls and for preconditions.

### Revision 8da20b53 - 06.11.2015 15:38 - Ivan Herrero

#244 - Format makefiles of Scheduler.

### Revision 890d4c67 - 06.11.2015 15:43 - Ivan Herrero

#244 - Fix makefiles for compiling, on Windows, of FileSystem in general and BasicFile in particular.

### Revision ca41b465 - 06.11.2015 15:45 - Ivan Herrero

#244 - Configure BasicFile for linking it into Windows DLL's.

### Revision 5fa896b9 - 10.11.2015 11:47 - Ivan Herrero

#244 - Minor documentation changes

### Revision b648961c - 10.11.2015 14:54 - Ivan Herrero

#244 - Synchronise function prototypes of BasicFile between .h and .cpp files.

### Revision f5a03fc9 - 17.11.2015 11:08 - Ivan Herrero

#244 - Import changes from #243\_Linux\_File branch and improve FileSystem implementation for Windows.

- Import constants for integer limits on CompilerTypes from #243\_Linux\_File branch.
- Import BasicFileTest and BasicFileGTest from #243\_Linux\_File branch.
- Update Makefile.inc files on all folders related with FileSystem.

- Add Makefile.msc files on all folders related with FileSystem.
- Fix bugs on implementation of BasicFile for Windows detected after executing unit tests.

**Revision 50614177 - 17.11.2015 13:07 - Ivan Herrero**

#244 - Add missing Makefile files for BasicFile unit testing on Windows.

**Revision 1bafc4ac - 19.11.2015 09:56 - Ivan Herrero**

#244 - First version of Windows implementation for BasicFile.

Note: Makefiles and units tests updated.

**Revision 85b755a3 - 19.11.2015 12:33 - Ivan Herrero**

Merge branch 'develop' into #244\_Windows\_File\_bis

**Revision f63c48e0 - 19.11.2015 16:54 - Ivan Herrero**

#244 - Fix flags bugs on Windows implementation for BasicFile.

**Revision b1c39f2a - 19.11.2015 18:12 - Ivan Herrero**

#244 - Change default value of flags on BasicFile.

**Revision 30932140 - 19.11.2015 19:15 - Ivan Herrero**

#244 - Improvement of the Windows implementation for the assignment operator and copy constructor of BasicFile.

- The assignment operator now releases the handle of the assigned object, but in case of error, maintains its previous state.
- The copy constructor implementation has been refactored to mirror the assignment operator one.

**Revision a6b9c80f - 20.11.2015 10:59 - André Neto**

#244 Ready to be merged in develop

## History

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**#1 - 23.10.2015 13:20 - André Neto**

- Status changed from New to Code: Impl

**#2 - 23.10.2015 13:24 - André Neto**

- Description updated

**#3 - 23.10.2015 13:30 - André Neto**

- Target version set to 0.7

**#4 - 26.10.2015 10:38 - Ivan Herrero**

- Assignee set to Ivan Herrero

**#5 - 06.11.2015 16:23 - Ivan Herrero**

- Status changed from Code: Impl to Code: Rev

- Assignee deleted (Ivan Herrero)

**#6 - 10.11.2015 17:37 - André Neto**

- Target version changed from 0.7 to 0.8

**#7 - 10.11.2015 17:49 - Riccardo Vitelli**

- Status changed from Code: Rev to Code: Impl

**#8 - 10.11.2015 17:49 - Riccardo Vitelli**

- Assignee set to Ivan Herrero

**#9 - 20.11.2015 10:47 - André Neto**

- Status changed from Code: Impl to Code: Rev

**#10 - 20.11.2015 10:49 - André Neto**

- Description updated

- Assignee changed from Ivan Herrero to André Neto

**#11 - 20.11.2015 11:02 - André Neto**

- Status changed from Code: Rev to Unit: Impl

**#12 - 20.11.2015 11:02 - André Neto**

- Assignee changed from André Neto to Ivan Herrero

**#13 - 20.11.2015 11:02 - André Neto**

- Status changed from Unit: Impl to Unit: Rev

**#14 - 20.11.2015 11:02 - André Neto**

- Assignee changed from Ivan Herrero to André Neto

**#15 - 20.11.2015 11:03 - André Neto**

- Assignee deleted (André Neto)

**#16 - 20.11.2015 11:16 - André Neto**

Merged in develop in commit a6b9c80fae412edf15a936fc087b078a7b01932d

**#17 - 20.11.2015 11:16 - André Neto**

- Status changed from Unit: Rev to Closed