

MARTe2-core - User story #142

MARTe-EX-F-1.1.15: The framework shall offer portable support for basic console operations.

03.06.2015 11:40 - Riccardo Vitelli

Status: Closed	Start date:
Priority: Normal	Due date:
Assignee:	% Done: 0%
Category:	Estimated time: 16.00 hours
Target version: 0.2	Spent time: 0.00 hour
Git branch (link):	SVN commit (link/?p=rev):
Git merge to develop (link):	

Description

Implement requirement MARTe-EX-F-1.1.15 based on the original MARTe implementation.

Note: Basic is intended as with no streaming support. Expected functionality (as minimum) is I/O to/from stdin/stdout. This implementation should be portable and delegated to the different operating systems console implementation.

Source code files modified

- Source/Core/L0Portability/BasicConsole.cpp
- Source/Core/L0Portability/BasicConsole.h
- Source/Core/L0Portability/OperatingSystem/Linux/BasicConsoleOS.cpp
- Source/Core/L0Portability/OperatingSystem/Windows/BasicConsoleOS.cpp
- Test/Core/L0Portability/BasicConsoleTest.cpp
- Test/Core/L0Portability/BasicConsoleTest.h
- Test/GTest/BasicConsoleGTest.cpp

Architecture & design review

Date of the review: 23/06/2015

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: 01/07/2015

Person who did the review: Ivan Herrero

Result of review: PASS

List of non-conformities: N/A

Unit test review

Date of the review: 24/07/2015

Person who did the review: Ivan Herrero

Result of coverage tests review: PASS

Result of functional tests review: PASS

Result of review: PASS

List of non-conformities:

Coverage note: Some error paths not exercised

The following methods of BasicConsole do not have an explicit test, because the answer is different according to the target operating system:

- bool ColourSupported()
- bool ConsoleBufferSupported()
- bool CursorPositionSupported()
- bool TitleBarSupported()
- bool WindowSizeSupported()
- bool TimeoutSupported()

The following methods of BasicConsole are not tested because they are not implemented in Linux:

- `ErrorType BasicConsole::ShowBuffer();`
- `ErrorType BasicConsole::SetColour(const Colours &foregroundColour, const Colours &backgroundColour);`
- `ErrorType BasicConsole::SetTitleBar(const char8 * const title);`
- `ErrorType BasicConsole::GetTitleBar(char8 * const title, const uint32 &size) const;`
- `ErrorType BasicConsole::SetCursorPosition(const uint32 &column, const uint32 &row);`
- `ErrorType BasicConsole::GetCursorPosition(uint32 &column, uint32 &row) const;`
- `ErrorType BasicConsole::SetWindowSize(const uint32 &numberOfColumns, const uint32 &numberOfRows);`
- `ErrorType BasicConsole::GetWindowSize(uint32 &numberOfColumns, uint32 &numberOfRows) const;`
- `ErrorType BasicConsole::PlotChar(const char8 &c, const Colours &foregroundColour, const Colours &backgroundColour, const uint32 &column, const uint32 &row);`

Associated revisions

Revision 65eef75c - 22.06.2015 14:04 - Giuseppe Ferrò

Added BasicConsole implementation
#142

Revision 98bcb659 - 23.06.2015 11:55 - Giuseppe Ferrò

Fixed warnings.
#142

Revision 44118403 - 23.06.2015 16:54 - Giuseppe Ferrò

Fixed issues accordingly with revision.
#142

Revision fc4753aa - 26.06.2015 11:54 - Giuseppe Ferrò

Corrected code accordingly with revision.
#142

Revision c2568369 - 17.07.2015 14:04 - Llorenç Capella

US #142 Basic console tests added and BasicConsole::Write() corrected.

List of changes: * When size > real string size the Write() returns a wrong size written. It was corrected. * Makefile.inc in the GTest folder modified to include the ConsoleGTest * Rename TestOpen to TestOpenModeDefault * TestOpenModeCreateNewBuffer added. * TestOpenPerformCharacterInput added. * TestOpenDisableControlBreak added. * TestOpenEnablePaging added. * TestGetMode added. * TestClose added. * Rename TestWrite to TestWriteCheckReturn. * TestWriteNullString added. * TestWriteExactSize added. * TestWriteSmallSize added. * TestWriteLargeSize added. * TestWriteEndColumn added.

Revision 973b449b - 17.07.2015 17:58 - Llorenç Capella

US #142 BasicConsoleOS bug correction

Bug related with currentColumn corrected. Now when the currentChar='\n'

the currentColumn is reseted (set to 0).

Revision d8a20764 - 23.07.2015 12:40 - Giuseppe Ferrò

BasicConsole tests implementation.
#142

Revision c4cb5ff9 - 24.07.2015 17:02 - Ivan Herrero

#142 - Minor formatting corrections (following template rules)

Revision efd10a0e - 24.07.2015 17:55 - Giuseppe Ferro

Added TestConstructor and TestTimeoutRead to BasicConsoleTest.
#142

History

#1 - 03.06.2015 14:55 - André Neto

- Subject changed from *MARTE-EX-F-1.1.15: The framework shall have basic and portable support for console operations.* to *MARTE-EX-F-1.1.15: The framework shall offer portable support for basic console operations.*

- Description updated

#2 - 12.06.2015 10:32 - Riccardo Vitelli

- Status changed from *New* to *Arch: Rev*

#3 - 12.06.2015 11:15 - Riccardo Vitelli

- Assignee set to *André Neto*

#4 - 12.06.2015 18:29 - André Neto

- Description updated

#5 - 18.06.2015 12:42 - Giuseppe Ferro

- Status changed from *Arch: Rev* to *Code: Impl*

#6 - 18.06.2015 12:42 - Giuseppe Ferro

- Assignee changed from *André Neto* to *Giuseppe Ferro*

#7 - 22.06.2015 17:31 - Riccardo Vitelli

- Status changed from *Code: Impl* to *Code: Rev*

#8 - 22.06.2015 17:31 - Riccardo Vitelli

- Assignee changed from *Giuseppe Ferro* to *Ivan Herrero*

#9 - 23.06.2015 15:37 - Ivan Herrero

- Description updated

Code and documentation review made on revision b99ba9f. Code and documentation corrections pending.

#10 - 23.06.2015 18:04 - André Neto

- Status changed from *Code: Rev* to *Code: Impl*

#11 - 23.06.2015 18:04 - André Neto

- Assignee changed from *Ivan Herrero* to *Giuseppe Ferro*

#12 - 25.06.2015 17:18 - Riccardo Vitelli

- Status changed from *Code: Impl* to *Code: Rev*

#13 - 25.06.2015 17:20 - Riccardo Vitelli

- Assignee deleted (*Giuseppe Ferro*)

#14 - 25.06.2015 19:06 - Ivan Herrero

- Description updated

Source/Core/L0Portability/OperatingSystem/Linux/BasicConsoleOS.h correction not completed, yet.
Source/Core/L0Portability/OperatingSystem/Windows/BasicConsoleOS.h correction not completed, yet.

#15 - 25.06.2015 19:06 - Ivan Herrero

- Status changed from Code: Rev to Code: Impl

#16 - 26.06.2015 11:44 - Giuseppe Ferro

- Assignee set to Giuseppe Ferro

#17 - 29.06.2015 09:52 - Riccardo Vitelli

- Status changed from Code: Impl to Code: Rev

#18 - 29.06.2015 09:53 - Riccardo Vitelli

- Assignee deleted (Giuseppe Ferro)

#19 - 01.07.2015 11:20 - Ivan Herrero

- Description updated

- Assignee set to Ivan Herrero

Code and documentation review made on revision 8e15315 [PASS].

#20 - 01.07.2015 13:07 - Riccardo Vitelli

- Status changed from Code: Rev to Unit: Impl

#21 - 01.07.2015 13:07 - Riccardo Vitelli

- Assignee deleted (Ivan Herrero)

#22 - 02.07.2015 18:06 - Riccardo Vitelli

- Target version changed from 0.1 to 0.2

#23 - 16.07.2015 09:52 - Llorenc Capella

- Assignee set to Llorenc Capella

#24 - 20.07.2015 11:01 - Llorenc Capella

- Status changed from Unit: Impl to Unit: Rev

#25 - 20.07.2015 11:03 - Llorenc Capella

- Assignee deleted (Llorenc Capella)

TestPerfChar() does not work well on the eclipse console (because it needs an enter), but does work on the Linux console.

#26 - 22.07.2015 14:57 - Llorenc Capella

- Status changed from Unit: Rev to Unit: Impl

#27 - 22.07.2015 15:09 - Llorenc Capella

- Assignee set to Giuseppe Ferro

#28 - 23.07.2015 15:15 - Giuseppe Ferro

- Status changed from Unit: Impl to Unit: Rev

#29 - 23.07.2015 15:16 - Giuseppe Ferro

- Assignee deleted (Giuseppe Ferro)

Unit Tests done.

#30 - 24.07.2015 12:16 - Ivan Herrero

- Assignee set to *Ivan Herrero*

#31 - 24.07.2015 17:06 - Ivan Herrero

- Description updated

- Status changed from Unit: Rev to Unit: Impl

- Assignee deleted (*Ivan Herrero*)

Unit test review made on revision c4cb5ff.

#32 - 24.07.2015 17:23 - Giuseppe Ferro

- Assignee set to *Giuseppe Ferro*

#33 - 24.07.2015 17:56 - Giuseppe Ferro

- Assignee deleted (*Giuseppe Ferro*)

Unit Implementation Done: efd10a0

#34 - 24.07.2015 17:57 - Giuseppe Ferro

- Status changed from Unit: Impl to Unit: Rev

#35 - 24.07.2015 19:10 - Ivan Herrero

- Assignee set to *Ivan Herrero*

#36 - 24.07.2015 19:18 - Ivan Herrero

- Description updated

- Status changed from Unit: Rev to Closed

- Assignee deleted (*Ivan Herrero*)

Unit test review made on revision cb388cb.