

MARTe2-core - User story #264

Make wider the range of Streaml::RelativeSeek from int32 to int64

03.11.2015 15:18 - Ivan Herrero

Status: Closed	Start date: 03.11.2015
Priority: Normal	Due date:
Assignee:	% Done: 0%
Category:	Estimated time: 0.00 hour
Target version: 0.11	Spent time: 0.00 hour
Git branch (link):	SVN commit (link/?p=rev):
Git merge to develop (link):	

Description

Current prototype:

```
/**
 * @brief Moves within the stream to a position that is relative to the
 * current location.
 * [...]
 * @warning (1) The deltaPos is a signed integer, so it will always have a
 * half addressable space with respect to its unsigned counterpart, i.e.
 * the Seek() method.
 * @warning (2) Moreover, the deltaPos is a 32 bits integer, less than the
 * 64 bits integer used in Seek(), so it will have a shorter addressable
 * space, anyway.
 */
virtual bool RelativeSeek(const int32 deltaPos) = 0;
```

Desired prototype:

```
/**
 * @brief Moves within the stream to a position that is relative to the
 * current location.
 * [...]
 * @warning The deltaPos is a signed integer, so it will always have a
 * half addressable space with respect to its unsigned counterpart, i.e.
 * the Seek() method.
 */
virtual bool RelativeSeek(const int64 deltaPos) = 0;
```

Update of descendants:

All the following classes implement the Streaml interface, so they must be updated accordingly, too.

- MARTe::BasicFile
- MARTe::DoubleBufferedStream
- * DummyDoubleBufferedStream
- MARTe::SingleBufferedStream
- * DummySingleBufferedStream
- MARTe::StreamMemoryReference
- MARTe::StreamString

Hint: Use the "Open type hierarchy" feature of Eclipse to show all the descendants of Streaml.

Source code files modified

- Source/Core/BareMetal/L1Portability/BasicConsole.h
- Source/Core/BareMetal/L1Portability/Environment/Linux/BasicConsole.cpp
- Source/Core/BareMetal/L1Portability/Environment/Windows/BasicConsole.cpp

- Source/Core/BareMetal/L1Portability/StreamI.h
- Source/Core/BareMetal/L3Streams/BufferedStreamGenerator.h
- Source/Core/BareMetal/L3Streams/DoubleBufferedStream.cpp
- Source/Core/BareMetal/L3Streams/DoubleBufferedStream.h
- Source/Core/BareMetal/L3Streams/OperatingSystemCallbacksI.h
- Source/Core/BareMetal/L3Streams/SingleBufferedStream.cpp
- Source/Core/BareMetal/L3Streams/SingleBufferedStream.h
- Source/Core/BareMetal/L3Streams/StreamMemoryReference.cpp
- Source/Core/BareMetal/L3Streams/StreamMemoryReference.h
- Source/Core/BareMetal/L3Streams/StreamString.cpp
- Source/Core/BareMetal/L3Streams/StreamString.h
- Source/Core/FileSystem/L1Portability/BasicFile.h
- Source/Core/FileSystem/L1Portability/BasicTCPSocket.h
- Source/Core/FileSystem/L1Portability/BasicUDPSocket.h
- Source/Core/FileSystem/L1Portability/Environment/Linux/BasicFile.cpp
- Source/Core/FileSystem/L1Portability/Environment/Linux/BasicTCPSocket.cpp
- Source/Core/FileSystem/L1Portability/Environment/Linux/BasicUDPSocket.cpp
- Source/Core/FileSystem/L1Portability/Environment/Windows/BasicFile.cpp
- Source/Core/FileSystem/L1Portability/Environment/Windows/BasicTCPSocket.cpp
- Source/Core/FileSystem/L1Portability/Environment/Windows/BasicUDPSocket.cpp
- Test/Core/BareMetal/L3Streams/SingleBufferedStreamTest.cpp
- Test/Core/BareMetal/L3Streams/SingleBufferedStreamTest.h
- Test/Core/BareMetal/L3Streams/StreamMemoryReferenceTest.cpp
- Test/Core/BareMetal/L3Streams/StreamMemoryReferenceTest.h
- Test/Core/BareMetal/L3Streams/StreamStringTest.cpp
- Test/Core/BareMetal/L3Streams/StreamStringTest.h
- Test/Core/BareMetal/L3Streams/StreamTestHelper.h
- Test/GTest/BareMetal/L3Streams/SingleBufferedStreamGTest.cpp
- Test/GTest/BareMetal/L3Streams/StreamMemoryReferenceGTest.cpp
- Test/GTest/BareMetal/L3Streams/StreamStringGTest.cpp

Architecture & design review

Date of the review: 03/11/2015

Person who did the review: Ivan Herrero

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: 26/01/2016

Person who did the review: Ivan Herrero

Result of review: PASS

List of non-conformities: N/A.

Unit test review

Date of the review: 26/01/2016

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: N/A

Note: The function `BasicConsole::Position()` was not being tested, because `BasicConsoleTest::TestPosition()` was testing `BasicConsole::Size()` instead. It has been fixed.

Associated revisions

Revision 11d0baa2 - 21.01.2016 13:07 - Giuseppe Ferro

#264

- Made wider the range of `RelativeSeek` to `int64`.
- Updated documentation and tests
- Checked lint and coverage.

Revision a49a10a0 - 26.01.2016 17:51 - Ivan Herrero

#264 - Fix coverage error for `BasicConsoleTest::TestPosition()`

+ The function `BasicConsole::Position()` was not being tested, because `BasicConsoleTest::TestPosition()` was testing `BasicConsole::Size()` instead. Now it tests `BasicConsole::Position()`.

Revision 50661871 - 26.01.2016 17:53 - Ivan Herrero

#264 - Fix minor spelling and spacing errors.

History

#1 - 18.01.2016 10:59 - André Neto

- *Status changed from New to Code: Impl*
- *Target version changed from Backlog to 0.11*

#2 - 21.01.2016 10:33 - Giuseppe Ferro

- *Assignee set to Giuseppe Ferro*

#3 - 21.01.2016 13:07 - Giuseppe Ferro

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

#4 - 21.01.2016 13:10 - Giuseppe Ferro

- *Description updated*
- *Assignee deleted (Giuseppe Ferro)*

code implementation done: 11d0ba
created from #296_GTest_Folder_Structure

#5 - 26.01.2016 14:46 - Ivan Herrero

- *Assignee set to Ivan Herrero*

#6 - 26.01.2016 15:34 - Ivan Herrero

Giuseppe Ferro wrote:

code implementation done: 11d0ba
created from #296_GTest_Folder_Structure

The new branch created for this US is named #264_Seek_Size.

#7 - 26.01.2016 17:57 - Ivan Herrero

- *Description updated*

Code/Documentation and unit test review passed on branch #264_Seek_Size.

#8 - 27.01.2016 16:42 - Ivan Herrero

- *Status changed from Code: Rev to Closed*
- *Assignee deleted (Ivan Herrero)*

Merged on develop branch.

#9 - 08.02.2016 10:48 - Ivan Herrero

- *Description updated*