

MARTe2-core - User story #141

MARTe-NE-F-1.1.14: The framework shall provide a method to convert the High Resolution Timer in elapsed time from the epoch

03.06.2015 11:08 - Riccardo Vitelli

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	20.00 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-1.1.14 based on the original MARTe implementation.

Note: for logging purposes it is important to have a precise measure of absolute time at least in microseconds.

Note: It is expected that the implementation, after calibrating the High Resolution Timer, will store in a static variable the time at which the application has started (using a portable method, i.e. no cli code in the portable part) minus the current value of the High Resolution Timer. This number can then later be added to the value of the High Resolution Timer to directly compute the elapsed time since the epoch.

Source code files modified

Same files of [#127](#) involved.

Architecture & design review

Date of the review: 12/06/2015

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: 23/07/2015

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: N/A

Same notes of [#127](#) applies.

Associated revisions

Revision 8f273cc8 - 18.06.2015 10:30 - Giuseppe Ferrò

Added HighResolutionTimer implementation.
#127 #141

Revision db3f4d0f - 18.06.2015 14:32 - Giuseppe Ferrò

Solved minor issues
#127 #141

Revision f3cf8733 - 18.06.2015 16:48 - Giuseppe Ferrò

Avoided backward include in HighResolutionTimerCalibratorOS.h for windows.
#127 #141

Revision f7b2aa2c - 22.06.2015 11:19 - Giuseppe Ferrò

Fixed HighResolutionTimer files accordingly with revision.
#127 #141

Revision 2857fa72 - 26.06.2015 15:32 - Giuseppe Ferrò

Added HighResolutionTimer tests.
#127 #141

History

#1 - 03.06.2015 14:51 - André Neto

- Subject changed from MARTe-EX-F-1.1.14: Convert the High Resolution Timer in time from epoch to MARTe-NE-F-1.1.14: The framework shall provide a method to convert the High Resolution Timer in elapsed time from the epoch
- 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 18:28 - André Neto

- Description updated

#5 - 18.06.2015 12:27 - Giuseppe Ferro

- Status changed from Arch: Rev to Code: Impl

#6 - 18.06.2015 12:27 - Giuseppe Ferro

- Assignee changed from André Neto to Giuseppe Ferro

#7 - 18.06.2015 12:28 - Giuseppe Ferro

- Status changed from Code: Impl to Arch: Rev

#8 - 18.06.2015 12:28 - Giuseppe Ferro

- Status changed from Arch: Rev to Code: Impl

#9 - 18.06.2015 12:41 - Ivan Herrero

- Assignee changed from Giuseppe Ferro to Ivan Herrero

#10 - 18.06.2015 12:42 - Ivan Herrero

- Status changed from Code: Impl to Code: Rev

#11 - 18.06.2015 17:30 - Ivan Herrero

- Description updated

#12 - 22.06.2015 11:51 - Ivan Herrero

- Description updated

#13 - 22.06.2015 11:54 - Ivan Herrero

- Description updated

#14 - 22.06.2015 12:42 - Ivan Herrero

- Description updated

- Assignee deleted (Ivan Herrero)

Code and documentation review made. Code and documentation corrections pending.

#15 - 22.06.2015 12:42 - Ivan Herrero

- Status changed from Code: Rev to Code: Impl

#16 - 22.06.2015 17:31 - Riccardo Vitelli

- Assignee set to Giuseppe Ferro

#17 - 22.06.2015 17:33 - Riccardo Vitelli

- Status changed from Code: Impl to Code: Rev

#18 - 22.06.2015 17:34 - Riccardo Vitelli

- Assignee changed from Giuseppe Ferro to André Neto

#19 - 23.06.2015 11:51 - Ivan Herrero

Code and documentation review made on revision f7b2aa2. Minor documentation correction pending. See [#127](#).

#20 - 23.06.2015 18:06 - André Neto

- Status changed from Code: Rev to Code: Impl

#21 - 23.06.2015 18:06 - André Neto

- Assignee changed from André Neto to Giuseppe Ferro

#22 - 25.06.2015 17:18 - Riccardo Vitelli

- Status changed from Code: Impl to Code: Rev

#23 - 25.06.2015 17:19 - Riccardo Vitelli

- Assignee deleted (Giuseppe Ferro)

#24 - 25.06.2015 18:48 - Ivan Herrero

- Description updated

Ídem [#127](#) (not fixed yet)

#25 - 25.06.2015 18:48 - Ivan Herrero

- Status changed from Code: Rev to Code: Impl

#26 - 26.06.2015 11:44 - Giuseppe Ferro

- Assignee set to Giuseppe Ferro

#27 - 29.06.2015 09:52 - Riccardo Vitelli

- Status changed from Code: Impl to Code: Rev

#28 - 29.06.2015 09:53 - Riccardo Vitelli

- Assignee deleted (Giuseppe Ferro)

#29 - 01.07.2015 10:56 - Ivan Herrero

- Description updated

- Assignee set to Ivan Herrero

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

#30 - 01.07.2015 13:07 - Riccardo Vitelli

- Status changed from Code: Rev to Unit: Impl

#31 - 01.07.2015 13:07 - Riccardo Vitelli

- Assignee deleted (Ivan Herrero)

#32 - 02.07.2015 18:06 - Riccardo Vitelli

- Target version changed from 0.1 to 0.2

#33 - 15.07.2015 14:09 - Llorenc Capella

- Assignee set to Llorenc Capella

#34 - 15.07.2015 14:37 - Llorenc Capella

- Status changed from Unit: Impl to Unit: Rev

#35 - 15.07.2015 14:38 - Llorenc Capella

- Assignee deleted (Llorenc Capella)

#36 - 23.07.2015 11:38 - Ivan Herrero

- Assignee set to Ivan Herrero

#37 - 23.07.2015 11:45 - Ivan Herrero

- Assignee deleted (Ivan Herrero)

- Description updated

Unit test review made on revision 5adc9a3.

#38 - 23.07.2015 11:46 - Ivan Herrero

- Status changed from Unit: Rev to Closed