

MARTe2-core - User story #168

Find all the objects statically defined in headers and refactor them

21.07.2015 18:28 - Ivan Herrero

Status: Closed	Start date: 21.07.2015
Priority: High	Due date:
Assignee:	% Done: 0%
Category:	Estimated time: 0.00 hour
Target version: 0.3	Spent time: 0.00 hour
Git branch (link):	SVN commit (link/?p=rev):
Git merge to develop (link):	

Description

The definition of static objects in headers must be avoided, because the static keyword (do not confuse it with the class static keyword) it is intended to make objects private to their compilation units (i.e. cpp files).

Moreover, defining objects on headers declared as static will create multiple copies of those objects (one per each time a compilation unit include the header).

This can be observed, for example, on /MARTe2/Source/Core/L0Portability/OperatingSystem/Linux/HighResolutionTimerOS.h (line 47 @ revision e49a441):

```
static HighResolutionTimerCalibratorOS calibratedHighResolutionTimer;
```

Note: The refactoring to apply must be agreed case per case.

Source code files modified

- Source/Core/L0Portability/OperatingSystem/Linux/HighResolutionTimerOS.h
 - Source/Core/L0Portability/OperatingSystem/Linux/HighResolutionTimerCalibratorOS.h
 - Source/Core/L0Portability/OperatingSystem/Linux/HighResolutionTimerCalibratorOS.cpp
 - Source/Core/L0Portability/OperatingSystem/Windows/HighResolutionTimerOS.h
 - Source/Core/L0Portability/OperatingSystem/Windows/HighResolutionTimerCalibratorOS.h
 - Source/Core/L0Portability/OperatingSystem/Windows/HighResolutionTimerCalibratorOS.cpp
- h1. Architecture & design review

Date of the review: as per [#150](#).

Person who did the review: N/A

Version of architecture & design document: N/A

Result of review: N/A

List of non-conformities: N/A

Code and documentation review

Date of the review: 20/08/2015.

Person who did the review: Andre' Neto

Result of review: PASS

List of non-conformities:

Unit test review

Date of the review: 20/08/2015

Person who did the review: Andre' Neto

Result of coverage tests review: PASS

Result of functional tests review: PASS

Result of review: PASS

List of non-conformities:

Associated revisions

Revision ea7c104e - 04.08.2015 11:59 - Giuseppe Ferro

List of changes:

- Declared osHighResolutionTimerCalibrator as extern in HighResolutionTimerOS.h and defined in HighResolutionTimerCalibratorOS.cpp (MISRA compliant because global variable)
- Declared processorVendorId as extern in ProcessorA.h and defined in ProcessorOS.cpp (MISRA compliant because global variable)
- Included directly the Architecture header files for inline implementations of Endianity and Atomic Functions.
- Moved BasicConsole::Mode outside of the class with the namespace BasicConsoleMode.

User Stories #168 #177

Revision 1afea709 - 12.08.2015 10:15 - André Neto

Cosmetic changes to code structure #168.

Revision 8397fc29 - 12.08.2015 12:08 - Giuseppe Ferro

List of changes:

- removed two unused functions from HighResolutionTimerCalibratorOS
- put UndefinedCpu of ProcessorType as constant outside of the class
- Lint verified.

#168 #177

Revision 98dfecb3 - 21.08.2015 13:24 - Giuseppe Ferro

Merge branch '#168_#177_Refactoring' of <https://vcis-gitlab.f4e.europa.eu/aneto/MARTe2.git> into #168_#177_Refactoring

History

#1 - 30.07.2015 09:43 - André Neto

- Target version changed from Backlog to 0.3

#2 - 03.08.2015 15:05 - Riccardo Vitelli

- Assignee set to Giuseppe Ferro

#3 - 03.08.2015 15:05 - Riccardo Vitelli

- Status changed from New to Code: Impl

#4 - 04.08.2015 12:06 - Giuseppe Ferro

Code Implementation done: ea7c104

#5 - 04.08.2015 12:07 - Giuseppe Ferro

- Status changed from Code: Impl to Code: Rev

#6 - 04.08.2015 12:07 - Giuseppe Ferro

- Assignee deleted (Giuseppe Ferro)

#7 - 12.08.2015 09:23 - André Neto

- Assignee set to André Neto

#8 - 12.08.2015 10:24 - André Neto

- Description updated

#9 - 12.08.2015 10:24 - André Neto

- Status changed from Code: Rev to Code: Impl

#10 - 12.08.2015 10:25 - André Neto

- Assignee deleted (André Neto)

#11 - 19.08.2015 14:45 - Riccardo Vitelli

- Status changed from Code: Impl to Code: Rev

#12 - 19.08.2015 15:45 - André Neto

- Status changed from Code: Rev to Code: Impl

#13 - 19.08.2015 15:54 - André Neto

- Status changed from Code: Impl to Code: Rev

#14 - 19.08.2015 15:54 - André Neto

- Assignee set to André Neto

#15 - 20.08.2015 21:03 - André Neto

- Description updated

#16 - 20.08.2015 21:04 - André Neto

- Status changed from Code: Rev to Unit: Rev

#17 - 20.08.2015 21:04 - André Neto

- Status changed from Unit: Rev to Closed

- Assignee deleted (André Neto)

#18 - 20.08.2015 21:06 - André Neto

- Description updated