

MARTe2-core - User story #182

Logging for L0Portability

31.07.2015 15:28 - André Neto

Status: Closed	Start date: 31.07.2015
Priority: Normal	Due date:
Assignee:	% Done: 0%
Category:	Estimated time: 0.00 hour
Target version: 0.4	Spent time: 0.00 hour
Git branch (link):	SVN commit (link/?p=rev):
Git merge to develop (link):	

Description

As a developer I want to be able to write log messages at every level of the framework. The logging mechanism shall be interrupt-safe.

This would satisfy requirements:

- MARTe-EX-F-3.1.1: The framework shall offer developers an interrupt-safe logging mechanism.
- MARTe-EX-F-3.1.2: The framework shall automatically include in the log message the absolute time of the message.
- MARTe-NE-F-3.1.3: The framework shall automatically include in the log message the source file line number.
- MARTe-NE-F-3.1.4: The framework shall automatically include in the log message the source filename.
- MARTe-NE-F-3.1.7: The framework shall automatically include in the log message the identifier of the thread from which the message is triggered from.
- MARTe-NE-F-3.1.8: The framework shall allow developers to specify the severity of the log message.

Source code files modified

- SourceCore/L0Portability/ ~~Logger.h~~ ErrorManagement.h
- SourceCore/L0Portability/ ~~Logger.cpp~~ ErrorManagement.cpp
- SourceCore/L0Portability/ ~~LogInformation.h~~ ErrorInformation.h

Architecture & design review

As per the original MARTe implementation, this is a support function and does not require formal design in UML.

Code and documentation review

Date of the review: 31/08/2015

Person who did the review: Ivan Herrero

Result of review: PASS

List of non-conformities: N/A

Note: There is an open discussion about if these classes/namespaces must be named Error infrastructure or Log infrastructure, because we log a lot of Information and Debug which by definition are not errors.

Unit test review

Date of the review: 02/09/2015

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

Notes: The function `ErrorManagementTest::CheckParameters` does not verify `ErrorInformation::header::isObject`, `ErrorInformation::hrtTime`, `ErrorInformation::objectPointer`, and `ErrorInformation::className`, because they are not implemented.

Associated revisions

Revision 978a829b - 14.08.2015 13:49 - Giuseppe Ferro

List of changes:

-First lint refactor (not complete) of `ErrorManagement`.
-Added `ErrorManagement` tests.

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Revision f2587f38 - 14.08.2015 17:52 - Giuseppe Ferro

List of changes:

Lint and testing of `ErrorManagement` done.

#182

Revision 6d28b272 - 17.08.2015 09:34 - Giuseppe Ferro

List of changes:

-Removed bit field from `ErrorType` in `ErrorInfo` since it is already a typedef of `int8`

#182

Revision b6426716 - 17.08.2015 09:46 - Giuseppe Ferro

List of changes:

-Added documentation.

#182

Revision 9f675893 - 20.08.2015 13:28 - Giuseppe Ferro

Added the file `ErrorInformation.h`

#182

Revision 0b8ae840 - 23.08.2015 13:39 - André Neto

Merge branch 'develop' into #182_Error_Management

Conflicts:

`MakeDefaults/Lint/marte_flint_exceptions.Int`
`MakeDefaults/Lint/marte_flint_files.Int`
`Source/Core/L0Portability/ErrorInformation.h`
`Source/Core/L0Portability/Makefile.inc`
`Source/Core/L0Portability/OperatingSystem/Linux/GeneralDefinitionsOS.h`
`Source/Core/L0Portability/OperatingSystem/Windows/GeneralDefinitionsOS.h`
`Test/GTest/Makefile.inc`

Revision 908851e8 - 24.08.2015 17:21 - Giuseppe Ferro

List of changes:

-Changed name `ErrorManagement` to `LogManagement` and so on...

#182

Revision 7870649c - 24.08.2015 17:24 - Giuseppe Ferro

Merge branch '#182_Error_Management' of

<https://vcis-gitlab.f4e.europa.eu/aneto/MARTE2.git> into

#182_Error_Management

Conflicts:

`Source/Core/L0Portability/ErrorInformation.h`
`Source/Core/L0Portability/ErrorManagement.h`
`Test/GTest/Makefile.inc`

Revision 3f905b6c - 02.09.2015 15:57 - Ivan Herrero

#182 - Apply minor corrections

- Add the "static" keyword for functions on the section static of

ErrorManagementTest.cpp, because they are only used in the translation unit.

- The implementation of DummyErrorFunction at ErrorManagementTest.cpp has been simplified to "ErrorManagementTest::retVal = true;".
- The implementation of the function ErrorManagementTest::TestToName at ErrorManagementTest.cpp has been updated after changes on ErrorManagement::UnsupportedFeature name string.

History

#1 - 31.07.2015 15:34 - André Neto

- Description updated

#2 - 13.08.2015 16:20 - Riccardo Vitelli

- Status changed from New to Code: Impl

#3 - 13.08.2015 16:20 - Riccardo Vitelli

- Assignee set to Giuseppe Ferro

#4 - 17.08.2015 09:47 - Giuseppe Ferro

- Status changed from Code: Impl to Code: Rev

#5 - 17.08.2015 09:49 - Giuseppe Ferro

- Assignee deleted (Giuseppe Ferro)

Code implementation done: b642671

#6 - 19.08.2015 15:54 - André Neto

- Assignee set to André Neto

#7 - 22.08.2015 17:31 - André Neto

- Assignee deleted (André Neto)

#8 - 23.08.2015 13:50 - André Neto

- Description updated

#9 - 23.08.2015 13:50 - André Neto

- Description updated

#10 - 24.08.2015 15:14 - Riccardo Vitelli

- Target version changed from 0.3 to 0.4

#11 - 24.08.2015 16:46 - Giuseppe Ferro

- Assignee set to Giuseppe Ferro

#12 - 25.08.2015 09:15 - Riccardo Vitelli

- Status changed from Code: Rev to Code: Impl

#13 - 25.08.2015 11:07 - Giuseppe Ferro

- Description updated

- Status changed from Code: Impl to Code: Rev

- Assignee deleted (Giuseppe Ferro)

#14 - 27.08.2015 10:12 - Riccardo Vitelli

- Assignee set to Ivan Herrero

#15 - 01.09.2015 09:40 - Ivan Herrero

- Description updated

#16 - 01.09.2015 09:40 - Ivan Herrero

- Status changed from Code: Rev to Unit: Rev

#17 - 02.09.2015 16:13 - Ivan Herrero

- Description updated

#18 - 03.09.2015 11:21 - André Neto

- Status changed from Unit: Rev to Closed

- Assignee deleted (Ivan Herrero)

#19 - 08.09.2015 09:41 - Ivan Herrero

- Description updated