MARTe2-components - Meeting #353

MARTe2-components QA-audit (v0.6)

21.12.2018 12:39 - André Neto

Status:	Closed		**Start date:**	21.12.2018
Priority:	Normal		**Due date:**	
Assignee:			**% Done:**	0%
Category:			**Estimated time:**	0.00 hour
Target version:			**Spent time:**	0.00 hour

Description

The v0.6 adds support to EPICSPVA and aligns with the v0.19 of the core.

Requirements review

Date of the review: 21/12/2018

Person who did the review: André Neto

Version of requirements: N/A

Result of review: N/A

List of non-conformities: N/A

Comments: Not applicable to this release (each individual component requirements was analysed separately).

Architecture & design review

Date of the review: 21/12/2018

Person who did the review: André Neto

Version of architecture & design document: 0.6

Result of review: N/A

List of non-conformities: N/A

Comments: Not applicable to this release (each individual component architecture was analysed separately).

Code and documentation review

Date of the review: 21/12/2018

Person who did the review: André Neto

Version of source code: 0.6

Result of review: PASS

List of non-conformities:

The NI6259 and NI6368 do not allow access to more than one GAM at the time. This is to prevent a synchornisation bug (see GetLastBufferIdx). The impact is minor but they should be updated to use the new Circular Buffer of the core framework.

List of warnings reported by Doxygen:

```
NONE
```

Unit test review

Date of the review: 21/12/2018

Person who did the review: André Neto

Version of unit tests: 0.6

Result of coverage tests review: PASS

Result of functional tests review: PASS

Result of review: PASS

ITER components tested @ trunk.codac.iter.org (but I did not test the hardware). DAN not tested as the test xml is no longer valid in 6.0!

List of non-conformities:

Note: execute with

```
lcov -l  Build/MARTe2-components.coverage.info
```

and compare with the latest master release using tkdiff.

Files containing functions with coverage < 90% or which have changed w.r.t. to last master release. Exclamation marks inform of differences w.r.t. to the last master.:_

```
    1                                                   |Lines       |Functions|Branches         1
                                                |Lines        |Functions|Branches
    2   Filename                                  |Rate    Num|Rate  Num|Rate   Num      2
Filename                                      |Rate    Num|Rate  Num|Rate   Num
    3   ================================================================================        3
================================================================================
    4 ! [/home/aneto/Projects/MARTe2-components/Source/Components/]                         4 !
[/home/aneto/Projects/MARTe2-components-master/Source/Components/]
    5 ! DataSources/EPICSCA/EPICSCAInput.cpp           |94.9%   196|95.7%  23|   -    0        5 !
DataSources/EPICSCA/EPICSCAInput.cpp          |95.1%   183|95.7%  23|   -    0
    6 ! DataSources/EPICSCA/EPICSCAOutput.cpp          |98.9%   188| 100%  23|   -    0        6 !
DataSources/EPICSCA/EPICSCAOutput.cpp         |98.8%   173| 100%  23|   -    0
    7 ! DataSources/EPICSPVA/EPICSPVAChannelWrapper.cpp|94.8%   271|92.9%  14|   -    0          !
    8 ! DataSources/EPICSPVA/EPICSPVAChannelWrapper.h  |91.4%    35| 100%  23|   -    0          !
    9 ! DataSources/EPICSPVA/EPICSPVAInput.cpp         |97.8%    92| 100%  18|   -    0          !
   10 ! DataSources/EPICSPVA/EPICSPVAOutput.cpp        | 100%   104| 100%  20|   -    0          !
   11   DataSources/EpicsDataSource/Atomic2.h          | 100%     4| 100%   2|   -    0        7
DataSources/EpicsDataSource/Atomic2.h         | 100%     4| 100%   2|   -    0
   14   DataSources/EpicsDataSource/Platform.cpp       |72.4%    58|75.0%   4|   -    0       10
DataSources/EpicsDataSource/Platform.cpp      |72.4%    58|75.0%   4|   -    0
   29 ! DataSources/MDSWriter/MDSWriterNode.cpp        |90.4%   417| 100%  27|   -    0       25 !
DataSources/MDSWriter/MDSWriterNode.cpp       |96.7%   389| 100%  27|   -    0
   30 ! DataSources/RealTimeTh...eThreadAsyncBridge.cpp| 100%   234|83.3%  18|   -    0       26 !
DataSources/RealTimeTh...eThreadAsyncBridge.cpp| 100%   227|83.3%  18|   -    0
   34 ! DataSources/SDN/SDNPublisher.cpp               |95.1%   265| 100%  19|   -    0       30 !
DataSources/SDN/SDNPublisher.cpp              |94.2%   258| 100%  19|   -    0
   35 ! DataSources/SDN/SDNSubscriber.cpp              |86.4%   279| 100%  20|   -    0       31 !
DataSources/SDN/SDNSubscriber.cpp             |97.7%   257| 100%  20|   -    0
   36 ! GAMs/ConstantGAM/ConstantGAM.cpp               | 100%   103| 100%  12|   -    0       32 !
GAMs/ConstantGAM/ConstantGAM.cpp              | 100%    90| 100%  12|   -    0
   40 ! GAMs/FilterGAM/FilterGAM.cpp                   |98.8%   337|86.4%  22|   -    0       36 !
GAMs/FilterGAM/FilterGAM.cpp                  |95.5%   337|86.4%  22|   -    0
   42 ! GAMs/HistogramGAM/HistogramComparatorT.h       | 100%    38| 100%  80|   -    0       38 !
GAMs/HistogramGAM/HistogramComparatorT.h      | 100%    36| 100%  70|   -    0
   43 ! GAMs/HistogramGAM/HistogramGAM.cpp             | 100%   132|77.3%  66|   -    0       39 !
GAMs/HistogramGAM/HistogramGAM.cpp            | 100%   115|76.9%  65|   -    0
   52 ! GAMs/TriggerOnChangeGA...ntConditionTrigger.cpp|96.2%   209| 100%  18|   -    0       48 !
GAMs/TriggerOnChangeGA...ntConditionTrigger.cpp|97.2%   177| 100%  18|   -    0
```

```
   54 ! GAMs/TriggerOnChangeGAM/TriggerOnChangeGAM.cpp | 100%   235|69.2%  13|   -    0     50 !
GAMs/TriggerOnChangeGAM/TriggerOnChangeGAM.cpp | 100%   233|69.2%  13|   -    0
   62 ! Interfaces/EPICS/EPICSCAClient.cpp           |92.3%   104| 100%  17|   -    0     58 !
Interfaces/EPICS/EPICSCAClient.cpp           |77.7%   103|94.1%  17|   -    0
   63 ! Interfaces/EPICS/EPICSPV.cpp                 |97.5%   326| 100%  30|   -    0     59 !
Interfaces/EPICS/EPICSPV.cpp                 |96.7%   269|96.3%  27|   -    0
   64 ! Interfaces/EPICSPVA/EP...tryDatabaseService.cpp| 100%    46| 100%  12|   -    0     60 !
Interfaces/MemoryGate/MemoryGate.cpp         |98.6%   144| 100%  13|   -    0
   65 ! Interfaces/EPICSPVA/EPICSPVA2V3Service.cpp   |99.0%   192| 100%  16|   -    0          !
   66 ! Interfaces/EPICSPVA/EPICSPVADatabase.cpp     |93.9%    98| 100%  17|   -    0          !
   67 ! Interfaces/EPICSPVA/EPICSPVAHelper.cpp       |95.9%   196| 100%  23|   -    0          !
   68 ! Interfaces/EPICSPVA/EPICSPVAMessageI.cpp     |95.1%    41|90.0%  10|   -    0          !
   69 ! Interfaces/EPICSPVA/EPICSPVARecord.cpp       |94.2%   189| 100%  19|   -    0          !
   70 ! Interfaces/EPICSPVA/EPICSPVAStructureDataI.cpp |95.9%   585| 100%  35|   -    0          !
   71 ! Interfaces/EPICSPVA/EPICSPVAStructureDataI.h  | 100%    41| 100%  22|   -    0          !
   72 ! Interfaces/EPICSPVA/EPICSRPCClient.cpp       |89.7%    29| 100%  10|   -    0          !
   73 ! Interfaces/EPICSPVA/EP...lientMessageFilter.cpp|92.3%    52|91.7%  12|   -    0          !
   74 ! Interfaces/EPICSPVA/EPICSRPCServer.cpp       |92.6%    81| 100%  16|   -    0          !
   75 ! Interfaces/EPICSPVA/EPICSRPCService.cpp      | 100%     5|80.0%   5|   -    0          !
   76 ! Interfaces/EPICSPVA/EPICSRPCServiceAdapter.cpp | 100%    10| 100%   7|   -    0          !
   77 ! Interfaces/MemoryGate/MemoryGate.cpp         |98.6%   142|92.3%  13|   -    0          !
```

GTest report

```
[----------] Global test environment tear-down
[==========] 2316 tests from 78 test cases ran. (706310 ms total)
[  PASSED  ] 2316 tests.
```

Integration test review

Date of the review: 21/12/2018

Person who did the review: André Neto

Version of integration tests: 0.6

Result of review: N/A

List of non-conformities: N/A

Comments: Not performed.

Acceptance test review

Date of the review: 21/12/2018

Person who did the review: André Neto

Version of acceptance tests: 0.6

Result of review: N/A

List of non-conformities: N/A

Comments: Not performed.

History

#1 - 21.12.2018 12:44 - André Neto

- Description updated

#2 - 21.12.2018 16:01 - André Neto

- Description updated

- Status changed from New to Closed