
Note of receipt of Salomé-Meca

Summary:

This documentation describes the method to carry out the receipt of an installation of Salomé-Meca on a local station. It can be a question of the version Gauges diffused in-house EDF or of version LGPL diffused into external. One described there more precisely the launching of the tests provided with the versions of *Code_Aster* embarked and of the tests of the various tools of the platform Salomé-Meca.

This document aims at:

- to formalize a approach of receipt of the platform Salomé-Meca,
- to allow a Research department to check according to the same criteria as EDF the good installation of a version of Salomé-Meca,
- to allow the EDF client to control the good performance of a version installed locally at a person receiving benefits if it were used for final calculations.

1 Launching of the tests associated with the solvor Code_Aster

It is necessary to have proceeded to the installation of the platform Salomé-Meca by using the instructions available on the site www.code-aster.org after having downloaded the ad hoc version.

The procedure of receipt described below was validated for the versions of Salomé-Meca starting from the version **2016**. It is a question of starting the tests embarked in (them) the version (S) of the solvor *Code_Aster* embarked (be). Concerning the version 2016, one has versions 12.6.0 (*stable*) and 13.2.0 (*testing*). As information, carrying out of the 3362 tests associated with the version *stable* request approximately 1:45 on a station of the type HP P700 (32 Go of RAM, 24 hearts, Intel (R) Intel (R) Xeon (R) CPU E5-2620 v3 @ 2.40GHz) under operating system 64 bits Gauges 9 (alternative interns EDF of Debian 8 Jessie). for the various software embarked specifically for the platform

Salomé integrates a script allowing to start tests. This script perhaps used automatically to launch the whole of the base of tests delivered and to carry out an assessment which it is easy to compare with that appearing in the card quality of the version of exploitation (A0 booklet of handbook A of documentation *Code_Aster*). Possible variations compared to the list of the tests mentioned as stopping in error must be announced to the team project R & D so that she decides.

The order which makes it possible to launch the procedure of receipt is for example:

```
Salome test - L ASTER_12 - J 8
```

or

```
Salome test - L ASTER_13 - J 12
```

The number of occurrence (8 or 12) must be adapted to the platform used and the number of hearts available.

At the end of the execution the assessment is displayed in the terminal:

```
...
3360/3362 Test #7687: ASTER_12.6.0_zzzz367a ..... Passed 17.67 dryness
3361/3362 Test #7681: ASTER_12.6.0_zzzz364a ..... Passed 68.67 dryness
3362/3362 Test #7623: ASTER_12.6.0_zzzz337b ..... Passed 146.09 dryness
```

```
99% tests passed, 42 tests failed out of 3362
```

```
Label Time Summary:
ASTER_12.6.0                = 48657.85 dryness
ASTER_12.6.0, SMECA_INTEGR  = 5.82 dryness
```

```
Total Test time (real) = 6301.69 dryness
```

```
The following tests FAILED:
4465 - ASTER_12.6.0_erreu06a (Failed)
4783 - ASTER_12.6.0_plexu01a (Failed)
4784 - ASTER_12.6.0_plexu02a (Failed)
4785 - ASTER_12.6.0_plexu02b (Failed)
4786 - ASTER_12.6.0_plexu03a (Failed)
4787 - ASTER_12.6.0_plexu03b (Failed)
4788 - ASTER_12.6.0_plexu03c (Failed)
4789 - ASTER_12.6.0_plexu04a (Failed)
4790 - ASTER_12.6.0_plexu05a (Failed)
4791 - ASTER_12.6.0_plexu06a (Failed)
4792 - ASTER_12.6.0_plexu07a (Failed)
4793 - ASTER_12.6.0_plexu08a (Failed)
4794 - ASTER_12.6.0_plexu08b (Failed)
4795 - ASTER_12.6.0_plexu08c (Failed)
4796 - ASTER_12.6.0_plexu08d (Failed)
4797 - ASTER_12.6.0_plexu08e (Failed)
4798 - ASTER_12.6.0_plexu09a (Failed)
4799 - ASTER_12.6.0_plexu09b (Failed)
4800 - ASTER_12.6.0_plexu10a (Failed)
```

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```
4801 - ASTER_12.6.0_plexu10b (Failed)
4803 - ASTER_12.6.0_plexu10d (Failed)
4804 - ASTER_12.6.0_plexu10e (Failed)
4805 - ASTER_12.6.0_plexu10f (Failed)
6916 - ASTER_12.6.0_supv002a (Failed)
7469 - ASTER_12.6.0_zzzz218a (Failed)
7470 - ASTER_12.6.0_zzzz218b (Failed)
7471 - ASTER_12.6.0_zzzz218c (Failed)
7652 - ASTER_12.6.0_zzzz354a (Failed)
7653 - ASTER_12.6.0_zzzz354b (Failed)
7654 - ASTER_12.6.0_zzzz354c (Failed)
7655 - ASTER_12.6.0_zzzz354d (Failed)
7656 - ASTER_12.6.0_zzzz354e (Failed)
7657 - ASTER_12.6.0_zzzz354f (Failed)
7658 - ASTER_12.6.0_zzzz354g (Failed)
7659 - ASTER_12.6.0_zzzz355a (Failed)
7660 - ASTER_12.6.0_zzzz355b (Failed)
7661 - ASTER_12.6.0_zzzz355c (Failed)
7662 - ASTER_12.6.0_zzzz355d (Failed)
7663 - ASTER_12.6.0_zzzz355e (Failed)
7664 - ASTER_12.6.0_zzzz355f (Failed)
7665 - ASTER_12.6.0_zzzz355g (Failed)
7666 - ASTER_12.6.0_zzzz355h (Failed)
Errors while running CTest
```

It is then necessary to compare the result of the passage of the tests with the card quality of the associated version (*cf.* for example [A0.02.80] "Card Quality of the version of exploitation of Code_Aster : version 12").

With an installation standard Salomé-Meca under Calibre9, the files associated with the execution with the cases tests are preserved under the repertoire `/local00/tmp/nor_resutestYY.Y.Y` where `nor` is it account user on the Calibre9 station and `YY.Y.Y` is the version of Code_Aster considered.

It is possible to start again a single test by using the following order:

```
Salome test - R "ASTER_YY.Y.Y_XXXX"
```

with `YY.Y.Y` the version of Code_Aster considered and `XXXX` the name of the test, for example:

```
Salome test - R "ASTER_13.2.0_erreu06a"
```

2 Launching of the associated tests with the platform Salomé-Meca

It is possible to start the tests of the various tools of the platform Salomé-Meca by using the following order:

```
./salome test - L SMECA
```

This order will start the tests provided for the various software embarked specifically for the platform, of which a limited selection of the tests of the versions of the solvor code_aster. It produces for example for the version the 2017 following exit:

```
Test project /home/I27518/salome_meca/appli_V2017/bin/salome/test
  Start 829: EDYOS_edynos.tests.unittest_entity_form.ComplexEntityFormTC
114/197 Test #829: EDYOS_edynos.tests.unittest_entity_form.ComplexEntityFormTC .....
Passed    6.35 dryness
...
  Start 918: EDYOS_edynos.tests.unittest_validation.PapaTehdCalculationTC
 90/197 Test #918: EDYOS_edynos.tests.unittest_validation.PapaTehdCalculationTC .....
Passed    2.96 dryness
  Start 919: MT_MT_sdll124a
 91/197 Test #919: MT_MT_sdll124a .....
Passed   11.06 dryness
...
114/197 Test #942: MT_MT_sdn1Ba
..... *** Failed 1163.64 dryness
...
  Start 961: MT_MT_sdll126f
133/197 Test #961: MT_MT_sdll126f .....
Passed    8.43 dryness
  Start 962: OMA_coude
134/197 Test #962: OMA_coude .....
Passed   15.17 dryness
  Start 963: OMA_tube
135/197 Test #963: OMA_tube .....
Passed   22.51 dryness
  Start 964: ORT_ort.data_struct.TestStudyData
136/197 Test #964: ORT_ort.data_struct.TestStudyData .....
Passed    0.47 dryness
...
  Start 971: ORT_ort.engine.aster.TestAsterStudy
143/197 Test #971: ORT_ort.engine.aster.TestAsterStudy .....
Passed   11.92 dryness
  Start 972: DHRC_dhrc.studydata.TestStudyData.test01_basic
144/197 Test #972: DHRC_dhrc.studydata.TestStudyData.test01_basic .....
Passed    0.10 dryness
...
  Start 981: DHRC_dhrc.engine.post.TestParametersIdentification.test01_basic
153/197 Test #981: DHRC_dhrc.engine.post.TestParametersIdentification.test01_basic .....
Passed   20.66 dryness
  Start 982: SMECA_UTILS_test01
154/197 Test #982: SMECA_UTILS_test01 .....
Passed   16.37 dryness
  Start 983: AC_acseisme.engine.functions.TestFunctions.test01a
155/197 Test #983: AC_acseisme.engine.functions.TestFunctions.test01a .....
Passed    6.06 dryness
...
  Start 993: AC_acseisme.engine.classes.TestClasses.test_rangee
165/197 Test #993: AC_acseisme.engine.classes.TestClasses.test_rangee .....
Passed    6.26 dryness
  Start 994: CABRI
166/197 Test #994: CABRI .....
Passed   16.45 dryness
  Start 995: CT_test0001
167/197 Test #995: CT_test0001 .....
Passed   10.70 dryness
...
  Start 998: CT_test0004
170/197 Test #998: CT_test0004 .....
Passed    9.79 dryness
  Start 999: CT_test0005
```

```
171/197 Test #999: CT_test0005 .....  
Passed 8.75 dryness  
Start 1000: CT_test0006  
172/197 Test #1000: CT_test0006 .....  
Passed 11.97 dryness  
Start 1001: CT_test0007  
173/197 Test #1001: CT_test0007 .....  
Passed 9.39 dryness  
Start 1002: CT_perfe02a  
174/197 Test #1002: CT_perfe02a .....  
*** Failed 10.33 dryness  
Start 1003: CT_ssnv108a  
175/197 Test #1003: CT_ssnv108a .....  
*** Failed 9.61 dryness  
Start 1004: CF_Test01  
176/197 Test #1004: CF_Test01 .....  
Passed 27.05 dryness  
Start 1005: CF_Test02  
177/197 Test #1005: CF_Test02 .....  
Passed 18.29 dryness  
Start 1006: MAC3_MONO  
178/197 Test #1006: MAC3_MONO .....  
Passed 10.20 dryness  
  
...  
Start 1010: MAC3_N4  
182/197 Test #1010: MAC3_N4 .....  
Passed 191.35 dryness  
Start 1210: ASTER_12.8.0_forma01c  
183/197 Test #1210: ASTER_12.8.0_forma01c .....  
Passed 6.73 dryness  
  
...  
Start 4154: ASTER_12.8.0_zzzz218a  
189/197 Test #4154: ASTER_12.8.0_zzzz218a .....  
Passed 23.68 dryness  
Start 4559: ASTER_13.4.0_forma01c  
190/197 Test #4559: ASTER_13.4.0_forma01c .....  
Passed 3.89 dryness  
  
...  
Start 7925: ASTER_13.4.0_zzzz401a  
197/197 Test #7925: ASTER_13.4.0_zzzz401a .....  
Passed 2.74 dryness
```

98% tests passed, 4 tests failed out of 197

Label Time Summary:

```
ASTER_12.8.0, SMECA_INTEGR = 68.13 dryness  
ASTER_13.4.0, SMECA_INTEGR = 76.84 dryness  
SMECA = 16.37 dryness  
SMECA_AC = 132.12 dryness  
SMECA_CABRI = 16.45 dryness  
SMECA_CF = 45.33 dryness  
SMECA_CT = 89.29 dryness  
SMECA_DHRC, SMECA_INTEGR = 21.77 dryness  
SMECA_EDYOS = 297.86 dryness  
SMECA_INTEGR = 611.24 dryness  
SMECA_MAC3 = 593.49 dryness  
SMECA_MT = 4687.32 dryness  
SMECA_MT, SMECA_INTEGR = 1208.90 dryness  
SMECA_OMA = 37.69 dryness  
SMECA_ORT = 13.89 dryness  
SMECA_UTILS = 16.37 dryness
```

Total Test time (real) = 7383.53 dryness

The following tests FAILED:

```
942 - MT_MT_sdn1Ba (Failed)  
943 - MT_MT_sdn1Bb (Failed)  
1002 - CT_perfe02a (Failed)  
1003 - CT_ssnv108a (Failed)  
Errors while running CTest
```

3 CAS-tests of graphic validation of the platform Salomé - Meca

There does not exist for the time being automatic procedure of launching of the CAS-tests of graphic validation of Salomé-Meca. The procedure consists in testing the installation manually while following the instructions of the handbooks contained in booklets SV1, SV2 and SV3 of documentation Salomé-Meca.