

Note of receipt of Salome_meca

Summary:

This documentation describes the method to carry out the receipt of an installation of salome_meca on a local station. It can be a question of the diffused version in-house EDF or 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 salome_meca.

This document aims at:

- to formalize a approach of receipt of the platform salome_meca,
- to allow a Research department to check according to the same criteria as EDF the good installation of a version of salome_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 salome_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 Salome_meca starting from the version 2018. It is a question of starting the tests embarked in (them) the version (S) of the solvor Code_hasster embarked (be).

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_hasster). 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_VERIFICATION_SEQUENTIAL - R ASTER_XX
```

The number tests started into simultaneous (8 in the example) must be adapted to the platform used and the number of hearts available, and **ASTER_XX** must be adapted to the version tested (for example **ASTER_14** to isolate the tests from the version 14).

Note:

If the tests are carried out on distant machine, it is necessary to activate the "display access control", it is thus necessary to use the option - **X** or **there** at the time of connection HS to the machine tested:

```
HS - X machine_cible
```

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

```
3360/3362 Test #7687: ASTER_14.4.0_zzzz367a ..... Passed 17.67 dryness
3361/3362 Test #7681: ASTER_14.4.0_zzzz364a ..... Passed 68.67 dryness
3362/3362 Test #7623: ASTER_14.4.0_zzzz337b ..... Passed 146.09 dryness
```

Assessment aster 14.4 in salome_meca 2019.0.1

```
99% tests passed, 11 tests failed out of 3694
```

```
Label Time Summary:
ASTER_14.4.0                = 116067.30 sec*proc (3694 tests)
ASTER_VERIFICATION_SEQUENTIAL = 116067.30 sec*proc (3694 tests)
SMECA_INTEGR                = 201.06 sec*proc (8 tests)
```

```
Total Test time (real) = 14623.85 dryness
```

The following tests FAILED:

```
1372 - ASTER_14.4.0_rtool01e (Failed)
1479 - ASTER_14.4.0_sdll123d (Failed)
1730 - ASTER_14.4.0_sdlx104a (Failed)
1846 - ASTER_14.4.0_sdnv105c (Failed)
1851 - ASTER_14.4.0_sdnv108a (Failed)
2696 - ASTER_14.4.0_ssnl133e (Failed)
3569 - ASTER_14.4.0_ssnv250e (Failed)
3599 - ASTER_14.4.0_ssnv256a (Failed)
4231 - ASTER_14.4.0_zzzz151a (Failed) ok, code incorrect return but without error
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 [A0.03.40] "Card Quality of the version of exploitation of Code_hasster : version 14").

For the tests in variations, it is necessary to start again test by using the following order:

```
Salome test - R ASTER_YY.Y.Y_xxxx - V
```

with **YY.Y.Y** the version of *Code_hasster* considered and **xxxx** the name of the test, for example:

```
Salome test - R ASTER_14.4.0_zzzz151has -V
```

and to make follow the log to the team project R & D so that she comes to a conclusion about the gravity of the variation.

2 CAS-tests of graphic validation of the platform Salome_meca

There does not exist for the time being automatic procedure of launching of the CAS-tests of graphic validation of salome_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 salome_meca.

3 Launching of the associated tests with the platform salome_meca

It is possible to start the tests of the various tools of the platform salome_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 solver `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
1/197 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
```

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Responsable :

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```
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
```

4 Skirting for execution without right of writing

During the launching of the tests with `Salome test`, the results are written in the repertoire `appli_XXX/bin/salome/test/`.

If the installation is made per package or another reason which makes that one cannot write in the repertoire quoted above, one can apply the following procedure.

In this example, one creates the virtual application in `/local00/tmp/appli` (to replace the suspension points by the original repertoire of installation):

```
... /V2019_calibre_9/create_appli.sh - D - has /local00/tmp/appli
Cd /local00/tmp/appli
CP... /application_V2019_calibre_9/env.d/envLocal.cfg env.d/
./salome test...
```