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 solver 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 solver 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_sd11223d (Failed)
1730 - ASTER_14.4.0_sd10104a (Failed)
1846 - ASTER_14.4.0_5d1015c (Failed)
1851 - ASTER_14.4.0_sd11018a (Failed)
2696 - ASTER_14.4.0_ss11133e (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 solvor code_aster. It produces for example for the version 2017 the following exit:

```
Test project /home/I27518/salome_meca/appli_V2017/bin/salome/test
  1/197 Test #829: EDYOS_edyos_tests.unitest_entity_form.ComplexEntityFormTC ....
Pored  6.35 dryness
    Start 918: EDYOS_edyos_tests.unitest_validation.PapaTehdCalculationTC
  90/197 Test #918: EDYOS_edyos_tests.unitest_validation.PapaTehdCalculationTC ....
Pored  2.96 dryness
    Start 919: MT_MT_sdll124a
  91/197 Test #919: MT_MT_sdll124a .........................................................
Pored  11.06 dryness
    ...
  114/197 Test #942: MT_MT_sdnlBa
    ................................. *** Failed  1163.64 dryness
    ...
  133/197 Test #961: MT_MT_sdll126f
    .................................
Pored  8.43 dryness
    Start 962: OMA_coude
  134/197 Test #962: OMA_coude ..........................................................
Pored  35.17 dryness
    Start 963: OMA_tube
  135/197 Test #963: OMA_tube ..........................................................
Pored  22.51 dryness
    Start 964: ORT_ort.data_struct.TestStudyData
  136/197 Test #964: ORT_ort.data_struct.TestStudyData ..................................
Pored  0.47 dryness
    ...
  143/197 Test #971: ORT_ort.engine.aster.TestAsterStudy
    ...
  144/197 Test #972: DHRC_dhrc.studydata.TestStudyData.test01_basic
    ...
Pored  0.10 dryness
    ...
  153/197 Test #981: DHRC_dhrc.engine.post.TestParametersIdentification.test01_basic
    ...
Pored 20.66 dryness
    Start 982: SMECA_UTILS_test01
  154/197 Test #982: SMECA_UTILS_test01 .............................................
Pored  16.37 dryness
    ...
  155/197 Test #983: AC_acseisme.engine.functions.TestFunctions.test01a
    ...
Pored  6.06 dryness
    ...
  165/197 Test #993: AC_acseisme.engine.classes.TestClasses.test_rangee
    ...
Pored  6.26 dryness
    Start 994: CABRI
  166/197 Test #994: CABRI ..........................................................
Pored  16.45 dryness
    ...
  167/197 Test #995: CT_test0001
    ...
Pored  10.70 dryness
    ...
  170/197 Test #998: CT_test0004
    ...
Pored  9.79 dryness
    Start 999: CT_test0005
```

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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_DHR, SMECA_INTEGR = 21.77 dryness
SMECA_EDYOR = 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_sdnlBa (Failed)
943 - MT_MT_sdnlBb (Failed)
1002 - CT_perfe02a (Failed)
1003 - CT_ssnv108a (Failed)
Errors while running CTest

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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...
```