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.

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.

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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.codeaster.org after having downloaded the ad hoc version.

The procedure of receipt described below was validated for the versions of Salomé-Meca starting from version 2015.2. It is a question of starting the tests embarked in (them) the version (S) of the solvor *Code_Aster* embarked (be). Concerning version 2015.2, one has versions 12.4.0 (`stable`) and 11.8.0 (`oldstable`). As information, carrying out of the 3334 tests associated with the version `stable` request approximately 2:30 on a station of the type HP Z230 (16 Go of RAM, 8 hearts Intel (R) Xeon (R) CPU E3-1240 v3 @ 3.40GHz) under operating system 64 bits Gauges 7 (alternative interns EDF of Debian Squeeze 6.0.10).

A script makes it possible 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.

Note:

> *This script is pressed on the tools present after the installation of the platform Salomé-Meca and requires to position the associated environment. It builds a data file of the type `export` usable directly with script `as_run` . The list of the tests is built automatically, then the various executions are launched. Attention, the workstation could be strongly slowed down during the process.*

The file script which makes it possible to launch the procedure of receipt is `validation_salomemeca.sh`. It is downloadable while clicking on this link. Script is also attached to this document (*cf.* §3).
This procedure claims four arguments:

- `- v|--version_codeaster` follow-up of the version of the solvor *Code_Aster* `stable` or `oldstable` (optional, value by default `stable`),
- `- I|--to installation_dir` follow-up of the name of the repertoire of installation of Salomé-Meca (that provided during the launching of the script of installation, for example `$HOME/salome_meca`),
- `- N|--version_salomemeca` follow-up of the version of Salomé-Meca to test (e.g. `V2015.2`),
- `- E|--to exec_dir` followed by the name of the repertoire of execution where will be deposited the various files necessary on the way tests and the results.

It can then be launched in the following way:

```
./validation_salomemeca.sh - v stable - I /home/user/salome_meca \
   - N V2015.2 - E /home/user/tmp
```

Note:

> *It can be necessary to make script achievable.*
> `chmod a+x. / validation_salomemeca.sh`

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

```
--- Repertoire of the CAS-tests        : /home/user/tmp/resu_test_stable
    Version                          : 12.4.0
    Many CAS-tests                : 3334
    Error count                   : 52
       - without file .resu          : 4
       - incorrect version          : 4
```

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```
erreu06a      NOOK_TEST_RESU            0.53        0.08        0.61
[...]

------------ ------------------ ---------- ---------- ----------
3334 tests   52 errors           50158.74    1754.00   51912.74
```

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 “).

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2 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.

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3 APPENDIX: Procedure " validation_salomemeca.sh "

```
#! /bin/bash
#
# arguments of call - v|--version_codeaster - I|--to installation_dir - N|--version_salomemeca - E|--to
exec_dir
#
#     version_codeaster  : version stable aster or oldstable
#     to install_dir        : repertoire of installation of salome_meca
#     version_salomemeca: version of salome_meca to be tested (e.g. V2015.2)
#     to exec_dir           : repertoire of execution where the different ones will be deposited
#                           files necessary on the way of the tests
#
use () {
    echo "Use: ./validation_salomemeca.sh [- v|--version_codeaster stable|oldstable] [- I|to
installation_dir to install_dir] [- N|--version_salomemeca version_salomemeca] [- E|--to exec_dir to
exec_dir]"
}

# "v" gold "version_codeaster" cuts optional been worth arguments with defect.
# "I" gold "to install_dir" cuts required arguments.
# "N" gold "version_salomemeca" cuts required arguments.
# "E" but "to exec_dir" cuts required arguments.


# set initial year been worth for the flag
" Stable" ARG_V=

# read the options
TEMP= 'getopt - O v: I: N: E: H --length version_codeaster: , to installation_dir: ,
version_salomemeca: , to exec_dir: , help - N 'validation_salomemeca.sh' -- "$@" '
eval set -- "$TEMP"

# extract options and to their variable arguments into.
while true; C
    box "$1" in
        - v|--version_codeaster)
            box "$2" in
                "") ARG_V=' summons defect value'; shift 1; ;
                *) ARG_V=$2; shift 2; ;
            esac; ;
        - I|--to installation_dir)
            box "$2" in
                "") shift 2; ;
                *) ARG_I=$2; shift 2; ;
            esac; ;
        - N|--version_salomemeca)
            box "$2" in
                "") shift 2; ;
                *) ARG_N=$2; shift 2; ;
            esac; ;
         - E|--to exec_dir)
            box "$2" in
                "") shift 2; ;
                *) ARG_E=$2; shift 2; ;
            esac; ;
         - H|--help) use
           exit 0; ;
       --) shift; station-wagon; ;
        *) echo "Internal error!" ; exit 1; ;
    esac
give
#
# check argument been worth
#
vers_aster=$ARG_V
yew ["$ {vers_aster}"! = "stable"] && ["$ {vers_aster}"! = "oldstable"]; then
   exit 1
fi

rep_install=$ARG_I
yew [! - D $ {rep_install}]; then
   echo "Directory $rep_installation not find"
   exit 1
```

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```
fi

version_salome=$ARG_N
yew [! - D $ {rep_install}/$ {version_salome}]; then
   echo "Salome_Meca $version_salome not find"
   exit 1
fi

rep_exe=$ARG_E
to mkdir - p $rep_exe
yew [$? ! = 0]; then
   exit 1
fi

#
# set execution environment for salome_meca
#
. $rep_installation/$version_salome/salome_prerequisites.sh

dir_test= 'find $rep_installation/$version_salome/tools - name "Code_aster_$vers_aster*" '
#
# build test lists and export slips by
#
as_run --list --all --nodebug_stderr --vers=$ {vers_aster} --astest_dir=$dir_test/share/aster/tests
--filter=' "sequential" in testlist' - O  $rep_exe/liste_$ {vers_aster}


rep_trav= 'mktemp - D '
cat << EOF > astout_$ {vers_aster} .export
P actions astout
P cpresok RESOK
P debug nodebug
P facmtps 3
P interactive mode
P nbmaxnook 500
P ncpus 1
P rep_trav $rep_trav
P tpsjob 3000
P version $ {vers_aster}
F lists $rep_exe/liste_$ {vers_aster} D  0
R resu_test $rep_exe/resu_test_$ {vers_aster} R  0

EOF
#
# tests execution
#
as_run astout_$ {vers_aster} .export
#
# build file result
#
as_run --diag --astest_dir=$rep_exe/resu_test_$ {vers_aster} > $rep_exe/bilan_$ {vers_aster} .txt

cat $rep_exe/bilan_$ {vers_aster} .txt | grep - v 'OK' | grep - v 'ALARM' > $rep_exe/bilan_$
{vers_aster} _nook.txt

cat $rep_exe/bilan_$ {vers_aster} _nook.txt
```

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