

Manager of Europlexus studies

Summary:

Card of validation of the operation of the Europlexus module of the platform Salomé-Meca.

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1 Files

The following files are necessary to lead the procedure of test and validation of the operation of the application. They are available in the installation of Salomé-Meca, under the repertoire `validation`¹.

```
epx_gibi.msh  
epx_gibi.epx
```

```
epx_mail.msh  
epx_mail.epx
```

```
epx_med.mmed  
epx_med.epx
```

```
epx_include.msh  
epx_include.epx  
epx_include.ll
```

2 Creation of a Case

2.1 Starting from existing files

- To launch the module `EPX`.
- To create a new study while clicking on the button `New`.
- To click on the icon `Add study puts for Europlexus solver`.
- To name the case `Cas_1_gibi`.
- In the window of definition of the calculation case, to click on the icon of selection of the command set and `Sélectionner command set epx_gibi.epx`.
- In the window of definition of the calculation case, to click on the icon of selection of the grid and `Sélectionner it grid epx_gibi.msh`.
- To validate.

⇒ The calculation case is created in the tree of study.

- In the tree of study, to do one click-right on the calculation case → `Expand Withll`.

⇒ Under item `Dated` the two files are listed. In the column `Been worth`, the way of these two files is seen. If the column `Been worth` is not visible, to activate it by right click on the column `Name Object Browser`.

⇒ Under item `Solver parameters` the parameters by default appear.

2.2 Starting from a grid present in the tree of study and a command set

- To activate the module `Mesh`.
- To import the file `epx_med.mmed` (`Menu File` → `Importation` → `MED slips by`).
- To return in the module `EPX`.
- To click on the icon `Add study puts for Europlexus solver`.
- To name the case `Cas_2_med`.
- In the window of definition of the calculation case, to click on the icon of selection of the command set and `Sélectionner command set epx_med.epx`.
- In the window of definition of the calculation case, to click on the icon of selection of the grid and `Sélectionner grid Dyears the tree of study`.
- To validate.

⇒ The case is created in the tree of study.

- In the tree of study, to do one click-right on the calculation case → `Expand Withll`.

⇒ Under item `Dated references` (with a star and in red) towards the object are listed `Mesh`.

¹ `.../appli_V [version] /share/salome/resources/europlexus/validation`

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⇒ Under item `Solver Parameters` the parameters by default appear.

2.3 Management of the waiters

2.3.1 Rebootstrapping of the waiters

- To launch the edition of the waiters while clicking on the button `Edict solvers` stored in `preferences` : one has N initial waiters.
- To remove all the waiters while clicking on the button `Delete`.
- To validate.
- To start again the edition of the waiters.

⇒ The NR initial waiters are present.

2.3.2 Addition of a waiter

- To launch the edition of the waiters: one has N initial waiters.
- To add a waiter `TEST_1` in clicking on the button `Add`.
- To take again the parameters of one of the initial waiters available with a login `louse`.

⇒ To check that the creation of the waiter is impossible.

- To select one of the waiters and to click on the button `Edict`.
- Reprendre parameters of one of the initial waiters available with command `/home/toto`.

⇒ To check that the creation of the waiter is impossible.

- To add a waiter `TEST_1` and Reprendre parameters of one of the initial waiters available.

⇒ One has $N + 1$ waiters in the list.

- To publish an existing calculation case (to make a click-right on the calculation case → `Edict`).
- To select the new waiter `TEST_1` in the fields `Preferences`.

⇒ The case is created with the good waiter.

3 Launching of the case

3.1 Via the tool bar

- In the tree of study, to select the case `Cas_1_gibi`.
- To click on the icon `Run has not running box`.

⇒ The diagnosis is `ENDED` in the column `Been worth`.

- By right click, to open the file listing under item `Results`.

⇒ One sees at the end of the file `NORMAL END`.

⇒ Presence DE fileS resultS Dyears the arbRe of study.

3.2 Via the contextual menu

- In the tree of study, to select the case `Cas_2_med`.
- To make a click-right on `Run`.

⇒ The diagnosis is `ENDED` and presence of fileS results in the tree of study.

3.3 Taking into account of the data of files internal to the command file

3.3.1 Grid by default

- To click on the icon Add study puts for Europlexus solver.
- To name a name of case.
- In the window of definition of the calculation case, to click on the icon of selection of the command set and to select the file command set `epx_mail.epx`.
- In the window of definition of the calculation case, to click on the icon of selection of the grid and to select the file grid `epx_mail.msh`.
- To validate.

⇒ The calculation case is created in the tree of study.

- To launch calculation.

⇒ The diagnosis is ENDED and presence of fileS results in the tree of study.

3.3.2 File INCLUDE

- D has NS the way COMP_FICHIER file `epx_include.epx` , to replace C E way by L E repertoire current where the file is `epx_include.11` and to replace `include.21` by `epx_include.11` .
- To record the file `epx_include.epx`.
- To click on the icon Add study puts for Europlexus solver.
- To name a name of case.
- In the window of definition of the calculation case, to click on the icon of selection of the command set and to select the file command set `epx_include.epx`.
- In the window of definition of the calculation case, to click on the icon of selection of the grid and to select the file grid `epx_include.msh`.
- To validate.

⇒ The calculation case is created in the tree of study.

- To launch calculation.

⇒ The diagnosis is ENDED and presence of fileS results in the tree of study.

3.4 Taking into account of the parameters of calculation

3.4.1 Memory

- To create a calculation case with as starter the files `epx_mail.msh` and `epx_mail.epx`.
- In fields `MEMorthere`, to indicate 2.

⇒ Memory in item Solver parameters is well positioned with 2.

3.4.2 Time

- To create a calculation case with as starter the files `epx_mail.msh` and `epx_mail.epx`.
- In fields `Time`, to indicate 1.
- To launch calculation.

⇒ Time in item Solver parameters is well positioned with 1.

3.4.3 Choice of version

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This test is adequate only so initially, there are several waiters corresponding to different versions, named fictitiously here V1 and V2.

- To create a calculation case with as starter the files `epx_mail.msh` and `epx_mail.epx`.
- To choose the waiter corresponding to the V1 version .
- To launch calculation.

⇒ The diagnosis is `ENDED` and presence at the beginning of listing of the indication of the V1 version.

- To publish the calculation case.
- To choose the waiter corresponding to the V2 version .
- To launch calculation.

⇒ The diagnosis is `INFOFD` and presence at the beginning of the file listing of the indication of the V2 version.

4 Modification of the case

4.1 Copy of the case

- In the tree of study, Copier an existing case having been calculated: to select and click on the icon `Copy puts parameters ace has new box` or to make a right click on `Copy` .

⇒ A new case is present in the tree of study without result.

- To launch calculation.

⇒ The results appear in the tree of study under the case copied.

4.2 Modification of the case

- In the tree of study, éditer the case copied: to select and click on the icon `Edict has study puts for Europlexus solver` or to make a right click on `Edict. ET` to modify name case.

⇒ The results are not present any more.

- To launch calculation.

⇒ The results appear in the tree of study under the case.

4.3 Modification of the dependences of the case paragraph 2.2

- To launch the module `Mesh` .
- In the tree of study, Renommer grid in `MA_COPIE` : to select the grid and to make a right click on `Rename` .
- To return in the module `EPX` .
- In the tree of study, Copier case `Cas_2_med`.
- To publish the case copied.
- To validate.

⇒ Under item `Dated`, vérifier if the name of the grid `my` is replaced by `MA_COPIE` .

- To launch calculation.

⇒ The results appear in the tree of study under the case.

4.4 Suppression of the case

- In the tree of study, to select the case copied.
- To click on the icon `Remove has not running box` or to make a right click on `Delete`.

⇒ The case is removed tree of study.

4.5 Information on the state of calculation

4.5.1 Before launching

- To create a calculation case with as starter the files `epx_mail.msh` and `epx_mail.epx`.
- In the tree of study, to select the case and to make a right click on `Information`.

⇒ The following message appears:

The puts has never been run with this parameters.

4.5.2 During calculation

- To launch the calculation case created previously.
- In the tree of study, to select the case and to make a right click on `Information`.

⇒ The following message appears:

The puts is currently running.

4.5.3 After launching

- In the tree of study, to select the case and to make a right click on `Information`

⇒ The following message appears:

The puts is not running. The status is now At " ENDED ". The returned code by EUROPLEXUS is " 0 ".

5 Safeguard and loading of the study

O N can publish a command file `epx` via the terminal using the order `gedit` for example .

- To save the study (Menu `File` → `Save`).
- To close `Salomé-Meca`.
- To start again `Salomé-Meca`.
- To charge the study (Menu `File` → `Open`).
- To launch the module `EPX`.
- To launch the cases.

⇒ Calculations proceed correctly.

- To launch the edition of the waiters.

⇒ There is the initial waiter and the waiter added at the time of stage 2.3.2.