

## Tool Stanley

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### Summary:

Card of validation of the operation of the tool Stanley with the platform Salomé-Meca.

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## 1 Files

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The validation is carried out on the CAS-test of Code\_hasster ssnp170a .

## 2 Launching of STANLEY

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- In Lplatform Salomé-Meca has, Créer oneE news study.
- To launch ASTK by the menu `Tools` → `Plugins` → `Salomé-Meca` → `Run astk`.
- Menu `File` → `To import` → `CAS-test` .
- To click on the icon `Insert a new entry` in the list.
- In the column `Type` of this new entry, to select `base` .
- To indicate the name of the file `.base`.
- To strip the boxes `D` and `C`.
- To click on the button `To launch` .
- To check that the state of calculation is `ENDED OK` in the window `ASJOB` .
- To launch Stanley by the menu `Tools` → `Postprocessing with Code_Aster (Stanley)` .
- To click on the button `STANLEY` .

## 3 Visualization in SALOMÉ

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- In Lplatform Salomé-Meca has, Lancer the module `ParaViS`.

### 3.1 Byamétrage STANLEY

In the IHM of STANLEY, ON checks in the menu `Parameters` → `To publish` that parameters of Salome are correctS, for example:

- Mode: Salomé
- Mode: ROOM
- Wearing of Salomé: 2810
- Temporary repertoire: /tmp

### 3.2 Visualization of a deformation

- In the column `Fields`, to select `DEPL`.
- For the other columns, to leave the values by default.
- To click on the button `TO TRACE`.

⇒ A representation in deformation of displacement is displayed for each iteration.

### 3.3 Visualization of a field

- In the column `Fields`, to select a field `SIEF_ELNO` or `ENEL_ELEM`.
- For the other columns, to leave the values by default.
- To click on the button `TO CALCULATE`.
- As soon as fire is green, to click on the button `TO TRACE`.

⇒ A representation of the field is displayed for each iteration.

## 3.4 Visualization of a field Gauss

- In the column `Fields`, to select a field `SIEQ_ELGA`.
- For the other columns, to leave the values by default.
- To click on the button `TO CALCULATE`.
- As soon as fire is green, to click on the button `TO TRACE`.

⇒ A representation in points of Gauss of the field is displayed for each iteration.

⇒ To check that the color of the spheres are correct (existence of values different from zero if field not no one).

## 3.5 Visualization of a field on deformation

- In the column `Fields`, to select a field `SIEF_ELNO` or `ENEL_ELEM`.
- To notch on deformation.
- For the other columns, to leave the values by default.
- To click on the button `TO CALCULATE`.
- As soon as fire is green, to click on the button `TO TRACE`.

⇒ A representation in deformation field hascard-indexed for each iteration.

## 3.6 Visualization of a curve

- Menu `Geometry` → `Addition way`.
- To enter following values:
  - Name of the way: `AxeX`
  - Origin: `(2.0, 0.0, 0.0)`
  - End: `(3.25, 0.0, 0.0)`
  - Many points: `10`
- To select the field `SIEQ_NOEU`.
- To click on the button `TO CALCULATE`.
- To select the component `PRIN_3` and the order `1`.
- To click on the box `Geometrical entities`.
- To select `Curves`.
- To select `AxeX`.
- To click on the button `TO TRACE`.

⇒ A graph representing the evolution of the component `PRIN_3` field `SIEQ_NOEU` according to the position of the point on the axis `X` is created. A curve is created for each iteration in the same graph. There is a graph by component.