Code_Aster

Titre : Opérateur POST_MAC3COEUR
Responsable : Samuel GENIAUT

Version 11

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Clé : U4.90.12   Révision : 12397

Operator `POST_MAC3COEUR`

1   Drank

Macro-command dedicated to the postprocessing of `CALC_MAC3COEUR`. This operator allows:
- to visualize the water blades in an engine at the level them grids
- to visualize the strains in an engine on the level of the grids (amplitude, modulus, directional sense)
- to visualize the strain of a particular assembly in the engine.

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2 Syntax

```
POST_MAC3COEUR      (

    "         MONO"  ♦TYPE_COEUR=/,
                        /"TEST",
                        /"900",
                        /"1300",
                        /"N4",
                        /"EPR",
    ♦RESULTAT=resu                                        [evol_noli]
    ♦INST=             I                          [R]
    ◊LAME=_F           (
                    ♦FORMAT=/          "GRACE"
                                  /"ARRAY"
                    ♦UNITE=ul                              [I]

                    # if FORMAT=' GRACE'
                    ♦/ NUME_GRILLE= ng              [I]
                      /TYPE_RESU=/     "MINI",
                                  /"MAXI",
                        ),

    ◊DEFORMATION=_F       (
                    ♦/  FORMAT=/         "GRACE"
                                  /"ARRAY"
                    ♦   UNITE=ul                           [I]

                    # if FORMAT=' GRACE'
                    ♦/ NUME_GRILLE=  ng             [I]
                      /TYPE_RESU=/     "MINI",
                                  /"MAXI",
                    ◊/ POSITION=pos                    [K]
                    ♦TYPE_VISU=/       "AMPLITUDE"
                                  /"MODULE"
                                  /"VECTEUR"
                                  /"DEFORME"
                    ◊   CONCEPTION=   concept          [K]
                    # finsi

                    # if FORMAT=' TABLE'
                    ♦   NOM_CMP=/           "DY"
                                  /"DZ"
                                  /"NORM"
                    # finsi

                        ),

                    )
```

3 Operands

3.1 Operand TYPE_COEUR

Name of the type of heart to treating.

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3.2 Operand RESULTAT

Name of data structure result to post-treating.

3.3 Operand INST

Time of desired postprocessing. Only one possible time at the same time.

3.4 Operand LAME

Factor key word which specifies that the macro-command is used here post-to treat the water blades of data structure RESULTAT.

3.4.1 Operand UNITE

Number of the logical unit for the writing of result.

3.4.2 Operand FORMAT

Two outputs of possible postprocessing. Either an output in the form of ARRAY with the format text, or a numerical output of visualization to format GRACE.

3.4.3 Operands specific to format GRACE

3.4.3.1 Operand NUME_GRILLE

Number of the grid to post-treating for all the assemblies of the engine (conventionally going number of bottom upwards in the axial direction of the assembly).

Note: Operand which excluded the call to TYPE_RESU.

3.4.3.2 Operand TYPE_RESU

Type of result with post-treating. If "MINI" one recovers allowance between each assembly, if "MAXI" one recovers the maximum clearance.

Note: Operand which excluded the call to NUME_GRILLE.

3.5 Operand DEFORMATION

Factor key word which specifies that postprocessing relates to the analysis of the strain of the assemblies in the engine.

3.5.1 Operand UNITE

Number of the logical unit for the writing of result.

3.5.2 Operand FORMAT

Two outputs of possible postprocessing. Either an output in the form of ARRAY with the format text, or a numerical output of visualization to format GRACE.
For the format GRACE, the treated operands are: NUME_GRILLE, TYPE_RESU, NUME_GRILLE, POSITION and CONCEPTION.
For the format COUNTS, the only treated operand is NOM_CMP.

3.5.3 Operands specific to format GRACE

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3.5.3.1 Operand NUME_GRILLE

Number of the grid to post-treating for all the assemblies of the engine (conventionally going number of bottom upwards in the axial direction of the assembly).

Note: Operand which excluded the call to TYPE_RESU.

3.5.3.2 Operand TYPE_RESU

Type of result with post-treating. If "MINI" one recovers allowance between each assembly, if "MAXI" one recovers the maximum clearance.

Note: Operand which excluded the call to NUME_GRILLE.

3.5.3.3 Operand TYPE_VISU

the postprocessing requested at the level of engine door either on the amplitude ("AMPLITUDE") of the strains of the assemblies, or on their modulus ("MODULE"), or on their direction ("VECTEUR").

It is also possible post-to treat the deformed shape ("DEFORME") of a particular assembly in the heart.

3.5.3.4 Operand POSITION

This operand is necessary if the choice of postprocessing is TYPE_VISU='DEFORME'. It makes it possible to define the position of the assembly in the engine which one wishes post-to treat.

3.5.3.5 Operand CONCEPTION

This operand is necessary if the choice of postprocessing is TYPE_VISU='DEFORME'. It makes it possible to specify the type of design of the assembly in the engine which one wishes post-to treat. It is necessary for the recovery of the geometrical properties of the assembly.

3.5.4 Operands specific to the format COUNTS

3.5.4.1 Operand NOM_CMP

This operand makes it possible to specify desired postprocessing is in one of the transverse directions in the assembly ("DY" or "DZ") or if it is the norm ("NORM").