

Operator RECU_GENE

1 Goal

To extract one vector of displacements, speeds or accelerations generalized starting from a result itself in generalized coordinates. Their extraction takes place for discretizations (moments or frequencies) givenES.

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2 Syntax

```
vecgene [vect_asse_gene] = RECU_GENE (  
    ◆ RESU_GENE = LMBOGin,           / [tran_gene]  
                                           / [harm_gene]  
    ◇ NOM_CHAM = / 'DEPL',           [DEFECT]  
                  / 'QUICKLY',  
                  / 'ACCE',
```

If the generalized result is **transient** (tran_gene):

```
    ◆ INST      = moment,           [R]  
    ◇ Interpol = / 'FLAX',  
                  / 'NOT',           [DEFECT]  
    ◇ CRITERION = / 'ABSOLUTE',  
                  / 'RELATIVE',     [DEFECT]  
    ◇ PRECISION = / prec,           [R]  
                  / 1.E-03,         [DEFECT]
```

If the generalized result is **harmonic** (harm_gene):

```
    ◆ FREQ      = freq,             [R]
```

```
)
```

3 Operands

3.1 Operand RESU_GENE

- ◆ RESU_GENE = resgen

Concept of type `tran_gene` or `harm_embarrassment` who contains for differentES discretizations (moments or frequencies) vectors generalized of standard displacement, speed or acceleration.

3.2 Operand NOM_CHAM

- ◇ NOM_CHAM = nomcha

Character string indicating the reference symbol of the field which one wishes to extract: `'DEPL'`, `'QUICKLY'` or `'ACCE'`.

3.3 Operand INST

- ◆ INST = urgent

For one result **transient** (`tran_gene`), itInstant for which one wishes to extract a generalized vector.

3.4 Operand Interpol

For one result **transient** (`tran_gene`):

- ◇ Interpol =

`'NOT'` : the extraction must be made *stricto-sensu*,

`'FLAX'` : an interpolation is authorized between two fields: this interpolation can be unacceptable between two moments of filing which do not correspond to moments of consecutive calculations by `DYNA_TRAN_MODAL` [U4.53.21].

3.5 Operands CRITERION and PRECISION

For one result **transient** (`tran_gene`):

- ◇ CRITERION = / `'ABSOLUTE'`
/ `'RELATIVE'`

- ◇ PRECISION = prec

Indicate with which precision the research of the moment must be done.

`'ABSOLUTE'` interval of research [moment-prec, instant+ prec].

:

`'RELATIVE'` interval of research [(1-prec) .instant, (1+prec) .instant].

:

Note: If CRITERE=' ABSOLU', then the keyword PRECISION becomes obligatory.

3.6 Operand FREQ

- ◆ FREQ = freq

For one result **harmonic** (`harm_gene`), the frequency for LhasthatLLE one wishes to extract a generalized vector.