

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 LhashtatLLE one wishes to extract a generalized vector.