

## 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.

## Contents

---

1 Goal.....	1
2 Syntax.....	3
3 Operands.....	4
3.1 Operand RESU_GENE.....	4
3.2 Operand NOM_CHAM.....	4
3.3 Operand INST.....	4
3.4 Operand Interpol.....	4
3.5 Operands CRITERION and PRECISION.....	4
3.6 Operand FREQ.....	4

## 2 Syntax

---

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

# If the generalized result is **transient** ( tran\_gene ):

```
    ♦ INST = moment, [R]  
    ♦ Interpol = / 'FLAX', [DEFECT]  
    / 'NOT',  
    ♦ CRITERION = / 'ABSOLUTE', [DEFECT]  
    / 'RELATIVE',  
    ♦ 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.