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

```plaintext
vecgene [vect_asse_gene] = RECU_GENE {

  ♦ RESU_GENE = LMBOGin, /[tran_gene]  // [harm_gene]

  ♦ NOM_CHAM = / 'DEPL', / 'QUICKLY', / 'ACCE', [DEFECT]

# 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]

}
```

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3 Operands

3.1 Operand RESU_GENE

- RESU_GENE = resgen
  
  Concept of type tran_gene or harm embarrassment who contains for different 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

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For one result harmonic \(\text{harm}_\text{gene}\), the frequency for \(L\) that one wishes to extract a generalized vector.