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',        [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]
```

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3 Operands

3.1 Operand RESU_GENE

◦ RESU_GENE = resgen

Concept of type tran_gene or harm embarrassmen 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), instant 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 search 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 (harm_gene), the frequency for LhastatLLE one wishes to extract a generalized vector.