

Operator RECU_GENE

1 Drank

To extract a displacement vector , velocities or accelerations generalized from one result itself in generalized coordinates. Their extraction takes place for discretizations (times or frequencies) data.

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2 Syntax

```
vecgene      [vect_asse_gene] = RECU_GENE (
              ♦ RESU_GENE =resgen      ,                / [tran_gene]
                                                       / [harm_gene]
              ◇NOM_CHAM=/                "DEPL",
[DEFAULT]
                                                       / "QUICKLY",
                                                       / "ACCE",

# If result generalized is transitory ( tran_gene ):
              ♦INST=instant              ,                [R]
              ◇ INTERPOL =                "LIN",
                                                       / "NON",                [DEFAULT]
              ◇CRITERE   =                "ABSOLU",
                                                       / "RELATIF",          [DEFAULT]
              ◇ accuracy =/prec          ,                [R]
                                                       /1.E-03              ,          [DEFAULT]

# If result generalized is harmonic ( harm_gene ):
              ♦FREQ=freq                  ,                [R]

              )
```

3 Operands

3.1 Operand RESU_GENE

◆RESU_GENE = resgen

Concept of the tran_gene type or harm_embarrassment which contains for various discretizations (times or frequencies) of the vectors generalized of standard displacement, velocity or acceleration.

3.2 Operand NOM_CHAM

◇NOM_CHAM = nomcha

Character string indicating the symbolic name of the field which one wishes to extract: "DEPL", "QUICKLY" or "ACCE".

3.3 Operand INST

◆INST = urgent

For result *transitory* (tran_gene), the time for which one wishes to extract a generalized vector.

3.4 Operand INTERPOL

For result *transitory* (tran_gene):

◇INTERPOL =

"NON": the extraction must be made stricto-sensu,
"LIN": an interpolation is authorized between two fields: this interpolation can be unacceptable between two times of archiving which do not correspond to times of consecutive computations by DYNA_TRAN_MODAL [U4.53.21].

3.5 Operands CRITERE and accuracy

For result *transitory* (tran_gene):

◇CRITERE = /"ABSOLU"
/ "RELATIF"

◇PRECISION = prec

Indicate with which accuracy the search of time must be done.

"ABSOLU" : interval of search [time-PREC, instant+ prec].
"RELATIF" : interval of search [(1-PREC) .instant, (1+prec) .instant].

Note: If CRITERE=' ABSOLU', then the key word accuracy becomes compulsory.

3.6 Operand FREQ

◆FREQ = freq

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

