Operator PROJ_MATR_BASE

1 Goal

To project a matrix assembled on a base of mechanical clean modes or a basis of RITZ. The projected matrix result will be used by the calculation algorithms in generalized components (DYNA_TRAN_MODAL [U4.53.21] for example).

One can use PROJ_BASE [U4.63.11] to treat several matrices simultaneously.

Product a concept stamps generalized of type matr_asse_gene_R if the matrix assembled to project is of type matr_asse_depl_R or of type matr_asse_gene_R.

Product a concept stamps generalized of type matr_asse_gene_C if the matrix assembled to project is of type matr_asse_depl_C or of type matr_asse_gene_C.
2 Syntax

matgene [matr_asse_gene_X] = PROJ_MATR_BASE

(♦ BASE = Ba, / [mode_meca]
 / [mode_gene]

♦ NUME_DDL_GENE = nu_gene, [nume_ddl_gene]

♦ / MATR_ASSE = my, [matr_asse_DEPL_X]
 / MATR_ASSE GENE = my, [matr_asse_gene_X]

) X = R or C
3 Operands

3.1 Operand BASE

- BASE = Ba
  Concept of the type mode_meca or mode_gene (for under-structuring) which contains the vectors defining the subspace of projection.

3.2 Operand NUME_DDL_GENE

- NUME_DDL_GENE = nu_gene
  Classification associated with the generalized model.

3.3 Operands MATR_ASSE / MATR_ASSE GENE

- / MATR_ASSE = my
  Concept of the type matr_asse_DEPL_R or matr_asse_DEPL_C, assembled matrix which one wishes to project.

- / MATR_ASSE_GENE = my
  Concept of the type matr_asse_gene_R or matr_asse_gene_C, assembled matrix resulting from the under-structuring, which one wishes to project.