

Structure of data sd_mode_cycl

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1 General information

The structure of data sd_mode_cycl is exclusively produced by order MODE_ITER_CYCL. This one calculates the clean modes of a structure with cyclic symmetry.

2 Tree structure of the Structure of Data

sd_mode_cycl (K8)

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(O)  \.CYCL_TYPE'      :  OBJ  S  V  K8      long=1
(O)  \.CYCL_DESC'     :  OBJ  S  V  I      long=4
(O)  \.CYCL_DIAM'    :  OBJ  S  V  I
(O)  \.CYCL_NBSC'    :  OBJ  S  V  I      long=1
(O)  \.CYCL_REFE'    :  OBJ  S  V  K24     long=3
(O)  \.CYCL_FREQ'    :  OBJ  S  V  R
(O)  \.CYCL_NUIN'    :  OBJ  S  V  I      long=3
(O)  \.CYCL_CMODE'   :  OBJ  S  V  C
```

2.1 Contents of objects JEVEUX

2.1.1 Object .CYCL_REFE

\.CYCL_REFE' : S V I LONG=3

V (1)	name of the concept sd_maillage
V (2)	name of the concept of the dynamic interface (sd_interf_dyna_clas)
V (3)	name of the concept sd_base_modale

2.1.2 Object .CYCL_TYPE

\.CYCL_TYPE' : S V K8 LONG=1

V (1)	name of the concept sd_maillage
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2.1.3 Object .CYCL_NUIN

\.CYCL_NUIN' : S V I LONG=3

V (1)	number of the interface of right-hand side
V (2)	number of the interface of left

V (3)	number of the interface of the axis if there is 1 axis. 0 if not.
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2.1.4 Object .CYCL_NBSC

``.CYCL_NBSC' : S V I LONG=1`

V (1)	many sectors
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2.1.5 Object .CYCL_DESC

``.CYCL_DESC' : S V I LONG=4`

V (1)	nb_mod	many modes of the base used
V (2)	nb_ddl	number of ddls of the left interface (or right-hand side)
V (3)	nb_ddli	number of ddls of the axis if there exists. 0 if not.
V (4)	nb_freq	many frequencies calculated by nodal diameter

2.1.6 Object .CYCL_DIAM

``.CYCL_DIAM' : S V I LONG=2*nb_diam`

V (1 with nb_diam)	number of the nodal diameters
V (nb_diam+1 with 2*nb_diam)	many modes per diameter

2.1.7 Object .CYCL_CMODE

``.CYCL_CMODE' : S V C LONG=nb_diam*nb_freq* (nb_mod+nb_ddl+nb_ddli)`

Values of different the ddls generalized for each nodal diameter and each frequency.

Convention of storage: if it were a table with 3 indices, it would be: CYCL_MODE (i_ddl, i_freq, i_diam)

2.1.8 Object .CYCL_FREQ

``.CYCL_FREQ' : S V C LONG=nb_diam*nb_freq`

Value of the frequencies for each nodal diameter.

Convention of storage: if it were a table with 2 indices, it would be: CYCL_FREQ (i_freq, i_diam)