

Data format sd_mode_cycl

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1 General information

the data structure sd_mode_cycl are exclusively produced by the command MODE_ITER_CYCL. This one calculates the eigen modes of a structure with cyclic symmetry.

2 Tree structure of Data format

the sd_mode_cycl (K8)

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

2.1 Contained JEVEUX objects

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
V (2)	number of the interface of left

Warning : The translation process used on this website is a "Machine Translation". It may be imprecise and inaccurate in whole or in part and is provided as a convenience.

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	number of modes of the base used
V (2)	nb_ddl	number of ddls of the left interface (or right)
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)