Structure of data sd_char_cine

Summary:

Contents

1 General information

The structure of data sd_char_cine contains the furnished information by the user with the orders AFFE_CHAR_CINE (_F). I.e. information concerning blockings of DDLS that one wants to eliminate (and not dualiser).

2 Tree structure

```
sd_char_cine  (K19)  :: =record
      (O) '.AFCK'  : OJB   S  V  K8    lonmax=3
      (O) '.AFCI'  : OJB   S  V  I
      (F) '.AFCV'  : OJB   S  V  R/C/K8
```

3 Contents of the OJB

3.1 Object .AFCK

AFCK (1) a character string contains "typifying" the load: 'CIxx_yy'

with:

xx: / ME (mechanics)
/ HT (thermics)
/ AC (acoustics)

yy: / RE (actual values). Example: AFFE_CHAR_CINE/MECA_IMPO
/ CX (complex values). Example: AFFE_CHAR_CINE/ACOU_IMPO
/ FT (values "function (INST)"). Example: AFFE_CHAR_CINE_F/MECA_IMPO

Notice :
one uses yy = FT in the case AFFE_CHAR_CINE/EVOL_IMPO

WithFCK (2): name of the model associated with the load

AFCK (3): /''
/evoimp : name of sd evol_xxx provided like argument of the keyword EVOL_IMPO.

3.2 Object .AFCI

One calls a blocking, a kinematic condition being written in the form:

CMP_i (NOEUD_j) = alpha_ij.

A kinematic load in is made a list of such blockings. Either nbloc the number of blockings of the load, object .AFCI is then length ≥ 3*nbloc + 1

.AFCI (1)	nbloc
.AFCI (2)	number of NODE concerned with the 1st blocking
.AFCI (3)	number of CMP concerned with the 1st blocking
.AFCI (4)	0 (unutilised)
.AFCI (5)	number of NODE concerned with the 2ième blocking
.AFCI (6)	number of CMP concerned with the 2ième blocking

.AFCI (7)	0 (unutilised)
…	…

Caution:

The number of CMP is the number of cmp range by this node and not the absolute number of CMP in the catalogue of the size.
For example, for a bearing node 'DX' and 'DZ', AFCI (3) = 2 wants to say "it DZ node AFCI (2) ".

3.3 Object .AFCV

Object .AFCV when there exists, east is length ≥ nbloc.

Object .AFCV does not exist if AFCK (3) ≠ ''

According to the cases, the stored values are realities, complexes or k8 (names of functions).

.AFCV (1)	specified value for the 1st blocking
.AFCV (2)	specified value for the 2ème blocking
.AFCV (3)	specified value for the 3ème blocking
…	…

3.4 Example

```
CHCI=AFFE_CHAR_CINE (MODELE=MO, MECA_IMPO= (
                     _F (  GROUP_NO = 'GNO15', DY = -1.2, DZ = 6.1),
                     _F (  NODE = 'N368', DY = 3.0)) )

IMPR_CO (CONCEPT=_F (NOM=CHCI))

================================================================================
  IMPRESSION OF THE CONTENTS OF THE LOST PROPERTY:
--------------------------------------------------------------------------------
 SEGMENT IMPRESSION OF VALUES >CHCI                .AFCI        <

      1 -            3          267            2            1          267
      6 -            3            1          368            2            1
--------------------------------------------------------------------------------
 SEGMENT IMPRESSION OF VALUES >CHCI                .AFCK        <

      1 - >CIME_RE <>MO      <>        <
--------------------------------------------------------------------------------
 SEGMENT IMPRESSION OF VALUES >CHCI                .AFCV        <

      1 - -1.20000D+00  6.10000D+00  3.00000D+00
```