

Data format sd_char_cine

Summarized:

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1 General information

the data structure sd_char_cine contain the furnished information by the user with commands AFFE_CHAR_CINE (_F). I.e. information concerning blockings of DDLs which 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 Contained of the OJB

3.1 Object .AFCK

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

with:

xx: /ME (mechanical)
 /HT (thermal)
 /AC (acoustic)

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

Note :

| one uses yy = FT in case AFFE_CHAR_CINE/EVOL_IMPO

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

AFCK (3) : /""

 /evoiimp : name of the sd evol_XXX provided like argument of key word
EVOL_IMPO.

3.2 Object .AFCI

One calls a blocking, a kinematical condition S" writing in the form:

$CMP_i (NOEUD_j) = \alpha_ij.$

A kinematical load in is made a list of such blockings. Either nbloc the number of blockings of the load, L" object .AFCI is then length $\geq 3*nbloc + 1$

.AFCI (1)	nbloc
.AFCI (2)	number of NOEUD concerned with the 1ier blocking
.AFCI (3)	number of the CMP concerned with the 1ier blocking
.AFCI (4)	0 (unutilised)
.AFCI (5)	number of NOEUD concerned with the 2nd blocking
.AFCI (6)	number of the CMP concerned with the 2nd blocking

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.

.AFCI (7)	0 (unutilised)
...	...

Attention:

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

3.3 Object .AFCV

object .AFCV when there exists, east is length \geq nbloc.

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

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

.AFCV (1)	specified value for the 1ier blocking
.AFCV (2)	specified value for the 2nd blocking
.AFCV (3)	specified value for the 3rd blocking
...	...

3.4 Example

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

```
IMPR_CO (CONCEPT=_F (NOM=CHCI))
```

```
=====
PRINTING OF THE CONTENU OF THE OBJECTS FIND:
-----
PRINTING SEGMENT OF VALUES >CHCI .AFCI <
>>>>>
  1 -          3          267          2          1          267
  6 -          3           1          368          2           1
-----
PRINTING SEGMENT OF VALUES >CHCI .AFCK <
>>>>>
  1 - >CIME_RE <>MO <> <
-----
PRINTING SEGMENT OF VALUES >CHCI .AFCV <
>>>>>
  1 - -1.20000D+00  6.10000D+00  3.00000D+00
```