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## Data structures Loads

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### Summarized:

The data structures “loads” are those produced by commands . They are the data structures sd\_char\_meca, sd\_char\_ther and sd\_char\_acou

## Contents

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<a href="#">1 Data format sd_char_meca.....</a>	<a href="#">3.1.1</a>
<a href="#">Tree structures of the sd_char_meca.....</a>	<a href="#">3.1.2</a>
<a href="#">Contents of JEVEUX objects.....</a>	<a href="#">4.1.3</a>
<a href="#">Description of the cards of a CHAR_MECA.....</a>	<a href="#">4.1.4</a>
<a href="#">Example .....</a>	<a href="#">5</a>
<a href="#">2 Data format sd_char_ther.....</a>	<a href="#">8.2.1</a>
<a href="#">Tree structure of the SD char_ther.....</a>	<a href="#">9.2.2</a>
<a href="#">Contents of JEVEUX objects.....</a>	<a href="#">9.2.3</a>
<a href="#">Example.....</a>	<a href="#">9</a>
<a href="#">3 Data format sd_char_acou.....</a>	<a href="#">12.3.1</a>
<a href="#">Tree structure of SD CHAR_ACOU.....</a>	<a href="#">13.3.2</a>
<a href="#">Contents of JEVEUX objects.....</a>	<a href="#">13.3.3</a>
<a href="#">Example.....</a>	<a href="#">13</a>

## 1 Data format sd\_char\_meca

a concept of the `sd_char_meca` type contains: one or more loadings and/or one or more boundary conditions affected on a mechanical model.

This concept is produced by one of the two operators: `AFPE_CHAR_MECA` or `AFPE_CHAR_MECA_F`.

A concept `sd_char_meca` is always associated with a mesh, via the entities `NOEUD`, `GROUP_NO`, `MESH`, `GROUP_MA` on which are defined the loadings.

On this mesh must have been affected a mechanical model.

A concept `sd_char_meca` can contain a `sd_ligrel` that one will call "Ligrel of load" and of the `sd_carte`.

### 1.1 Tree structures of the sd\_char\_meca

```
sd_char_meca (K8)      ::= = record
  ◊ ".CHME"           : sd_char_chme
  ◊ ".ELIM"           : sd_char_cine

  ◊ ".TYPE"           : S.E.      K8
  ◊ ".LISMA01"        : S V I
  ◊ ".LISMA02"        : S V I
  ◊ ".TRANS01"        : S V R
  ◊ ".TRANS02"        : S V R
  ◊ ".POIDS_MAILLE"   : S V R
```

```
sd_char_chme (K13)    ::= = record
  ◆ ".MODEL.NOMO"    : S.E.      K8 long=1
  ◊ ".VEASS"          : S.E.      K8 long=1
  ◊ ".EVOL.CHAR"      : S.E.      K8 long=1
  ◊ ".VEISS"          : S.E.      K8 long=6

  ◊ ".LIGRE"         : sd_ligrel
  ◊ ".CIMPO"         : sd_carte
  ◊ ".CMULT"         : sd_carte
  ◊ ".DPGEN"         : sd_carte
  ◊ ".EPSIN"         : sd_carte
  ◊ ". F1D2D"        : sd_carte
  ◊ ". F1D3D"        : sd_carte
  ◊ ". F2D3D"        : sd_carte
  ◊ ".FCO2D"         : sd_carte
  ◊ ".FCO3D"         : sd_carte
  ◊ ".FELEC"         : sd_carte
  ◊ ".FL101"         : sd_carte
  ◊ ".FL102"         : sd_carte
  ◊ ".FORNO"         : sd_carte
  ◊ ".IMPE"          : sd_carte
  ◊ ".PESAN"         : sd_carte
  ◊ ".PRESS"         : sd_carte
  ◊ ".ROTAT"         : sd_carte
```

```
◇ ".SIGIN"      : sd_carte
◇ ".SIINT"     : sd_carte
◇ ".VNOR"     : sd_carte
◇ ◆ ".ONDPL"   : sd_carte
◇ ◆ ".ONDPR"   : sd_carte
```

## 1.2 Contained JEVEUX objects

".CHME.MODEL.NOMO": name of the model associated with the load (K8)  
".CHME.TEMPE.TEMP": name of the field

of temperature in the case of a thermal loading (K8) ".CHME.VEASS": name of the assembled

vector which one imposes the components like forces with the second member (K8)  
".CHME.VEISS": S.E. K8 (dim =

6) the object contains 6 character strings  
K (6) defining the data necessary to loading FORCE\_SOL: K (1): number of unit of  
the temporal evolution of the contribution in stiffness of the impedance of soil. K (2): number of  
unit of  
the temporal evolution of the contribution out of mass of the impedance of soil. K (3): number  
of unit of  
the temporal evolution of the contribution in damping of the impedance of soil. K (4): number of  
unit of  
the temporal evolution of the seismic forces imposed on the interface soil-structure. K (5):  
place of interface soil-structure  
defined by GROUP\_NO\_INTERF. K (6): place of interface soil-structure  
defined by SUPER\_MAILLE. ".TYPE": type of the load (

K8) It contains one of the 2 character strings  
: "MECA\_RE" --> real for operator  
AFFE\_CHAR\_MECA "MECA\_FO" --> function for  
operator AFFE\_CHAR\_MECA\_F ".LISMA01": S V I (dim =

2\* NBMAIL1) NBMAIL 1 = number of meshes  
introduced behind the key words TOUT or NET or into GROUP\_MA factor key word  
INTE\_ELEC . This object contains the list of  
the nodes of the linear elements defining driver principal ".LISMA02": S V I (dim =

2\* NBMAIL2) Even thing for secondary  
driver (if there exists) ".TRANS01": S V I (dim =

6) /case where key word TRANS  
of FORCE\_ELEC is present : tx, ty, tz, 0., 0., 0. (tx, ty  
, tz) are the components  
of a translation of the principal driver to the secondary driver/case where  
key word SYME of

FORCE\_ELEC is present : x0, y0, z0, nx, ny, nz (x0,  
y0, z0): punctual coordinates  
(nx, ny, nz): components of  
the norm common to the principal driver and the secondary driver Description  
of the cards of

## 1.3 a CHAR\_MECA Name card Name quantity Description

.CIMPO	DDLI_R,	_C, _F second
member	of the kinematical	equations of boundary conditions .CMULT DDLM_R, _C coefficients
of	the kinematical equations	of boundary conditions .DPGEN NEUT_R generalized forces
	.EPSIN	EPSI_R, _F initial
strain	PRE_EPSI	. F1D1D FORC_R, _C, linear _F
	distributed force in	1D. F1D2D FORC_R, _C, linear _F
	distributed force in	2D. F1D3D FORC_R, _C, linear _F
	distributed force in	3D. F2D3D FORC_R, _C, surface _F
	distributed force in	3D .FCO2D FORC_R, _C, _F distributed force
	for shells	"2D" .FCO3D FORC _R, _C, _F distributed force
	for shells	"3D" .FELEC FELECR positional parameters
	of	drivers .FL101 LISTMA forces of Laplace
.FL	102 LISTMA	forces of Laplace
.FLUX	FTHM	_R, _F flux "THM
".	FORNO FORC_	R, _F nodal forces
.	IMPE IMPE_R	, _F impedance
(acoustic	) .ONDE	ONDE_R, _F amplitude
of pressure	D" incident wave	(acoustic) .PESAN PESA_R comes from PESANTEUR
.	PRESS PRES_R	, NEAR _F distributed pressure
	.SIGIN SIEF_R	come from initial
	RELA_CINE_BP	.SIINT SIEF_R Forced
PRE	_SIGM	.ROTAT ROTA_R comes from ROTATION
.VNOR	SOUR	_R, SOUR _F normal
velocity	of a mesh	(acoustic) .ONDPL NEUT_K24 comes from ONDE_PLANE
	.ONDPR NEUT_R	comes from ONDE_PLANE
CH		Example = AFFE_CHAR_MECA

## 1.4 (model

```

: Mo DDL_IMPO: (GROUP_NO: (A B)
Dy: 0 .) FACE_IMPO: (MESH : M266
dnor: 0. ) PRES_REP : (GROUP_MA : GRMA
13 near: 60.); product: ==> IMPR_CO OF

```

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## DATA STRUCTURE

```
: CH????????????????? ATTRIBUT: F          CONTENU: T BASE
: >G< MANY OBJECTS (OR COLLECTIONS
) FIND: 27 =====
```

```
===== PRINTING OF THE CONTENU OF THE
OBJECTS
FIND:
```

### PRINTING SEGMENT OF VALUES

```
>CH .CHME.CIMPO.DESC < 1 - 24 6 6 -3 1 6 -          -3 2 -3 3 -3          11
-              4 -3              5              -3          6
16 -              2              2              2 2              2          21
- 2
```

### PRINTING OF THE COLLECTION: CH .CHME.CIMPO.LIMA PRINTING

```
OBJET OF COLLECTION >CH .CHME.CIMPO.LIMA< OC          : 1 1 - -1 PRINTING
OBJET OF COLLECTION >CH .CHME.CIMPO.LIMA<          OC: 2 1 - -2 PRINTING
  OBJET          OF
COLLECTION >CH .CHME.CIMPO.LIMA< OC: 3 1 - -3          PRINTING OBJET  OF COLLECTION
  >CH
.CHME.CIMPO.LIMA< OC: 4 1 - -4 PRINTING OBJET          OF COLLECTION >  CH
.CHME.CIMPO.LIMA<
  OC:          5
1 - -5 PRINTING OBJET OF COLLECTION          >CH .CHME.CIMPO.LIMA< OC: 6 1 -          -6
```

### PRINTING SEGMENT OF VALUES >CH .CHME.CIMPO.NOLI < 1 - >CH

```
.CHME.LIGRE.LIEL<>CH .CHME.LIGRE.LIEL<          3
- >CH
CHME.LIGRE.LIEL<>CH .CHME.LIGRE.LIEL< 5 - >CH .CHME.LIGRE.LIEL<>CH
.CHME.LIGRE.LIEL<
```

### PRINTING SEGMENT OF VALUES

```
>CH.          CHME.CIMPO.NOMA < 1 - >M <
```

```
PRINTING          SEGMENT OF VALUES          >CH .CHME.CIMPO.VALE < 1 -
0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 6 - 0.00000E+00
```

```
PRINTING SEGMENT OF VALUES >CH .CHME.CMULT.DESC < 1 - 26 6 6 -3 1 6
- -3 2 -3 3 -3 11 - 4 -3 5          -3 6 16 - 2 2          2
2 2 21 - 2
```

### PRINTING OF THE COLLECTION: CH .CHME.CMULT.LIMA PRINTING OBJET OF COLLECTION >CH

```
.CHME.CMULT.LIMA< OC: 1 1 - -1 PRINTING OBJET          OF COLLECTION >          CH
.CHME.CMULT.LIMA<          OC          :          2 1          -
```

-2  
PRINTING  
COLLECTION

```
          OBJET          OF
          >CH          .          CHME.CMULT.LIMA< OC
: 3 1          -          -3          PRINTING
OBJET
```

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.

Titre : Structures de données sd\_char\_meca, sd\_char\_ther e[...]  
Responsable : Jacques PELLET

Date : 01/03/2013 Page : 7/18  
Clé : D4.06.04 Révision : 10571

OF COLLECTION >CH .CHME.CMULT.LIMA< OC: 4 1 - -4 PRINTING OBJET OF COLLECTION  
>CH .CHME.CMULT.LIMA<  
OC: 5 1 - -5 PRINTING OBJET OF COLLECTION >CH  
.CHME.CMULT.LIMA< OC: 6 1 - -6

PRINTING SEGMENT OF VALUES >CH  
.CHME.CMULT.NOLI <  
1 - >CH .CHME.LIGRE.LIEL<>CH .CHME.LIGRE.LIEL< 3 - >CH .CHME.LIGRE.LIEL<>CH.  
CHME.LIGRE.LIEL< 5 - >CH .CHME.LIGRE.LIEL<>CH. CHME.LIGRE.LIEL<

PRINTING  
SEGMENT OF VALUES >CH .CHME.CMULT.NOMA < 1 - >M <

PRINTING  
SEGMENT  
OF VALUES >CH .CHME.CMULT.VALE < 1 - 1.00000E+00 0.00000E+00 0.00000E+00  
0.00000E+00  
0.00000E+00 6 - 0.00000E+00 1.00000 E+00 0.00000E+00  
0.00000E +00 0.00000E+00 11 - 0.00000E+00 0.00000  
E+00 -7.07107 E-01 0.00000E+ 00 0.00000E+00 16  
- 0.00000 E+00 0.00000E+00 0.00000 E+00 7.07107  
E-01 0.00000E+00 21 - 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 -7.07107  
E-01 26 - 0.00000E+00 0.00000 E+00 0.00000E+00 0.00000  
E+ 00  
0.00000E+00 31 - 7.07107E-01 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E  
+00 36 - 0.00000E+00

PRINTING SEGMENT OF  
VALUES >CH .CHME.DPGEN.DESC < 1 - 58 1 1 1 9999 6 - 8190

PRINTING  
OF THE COLLECTION : CH .CHME.DPGEN.LIMA PRINTING OBJET OF COLLECTION >CH  
.CHME.DPGEN.LIMA< OC  
: 1 1 - 0

PRINTING SEGMENT OF VALUES >CH .CHME.DPGEN.NOLI < 1 - >  
<

PRINTING  
SEGMENT OF VALUES >CH .CHME.DPGEN.NOMA < 1 - >M <

PRINTING  
SEGMENT OF VALUES >CH  
.CHME.DPGEN.VALE < 1 -  
0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 6 - 0.00000E+00  
0.00000E+00 0.00000E+00 0.00000 E+00 1.00000E+  
00 11 - 1.00000E+00 1.00000E+00

PRINTING OF THE COLLECTION: CH .CHME.LIGRE.LIEL  
PRINTING OBJET OF COLLECTION >CH .CHME.LIGRE.LIEL< OC: 1 1 - -1  
-2 -4  
-6 39 PRINTING OBJET OF COLLECTION >CH .CHME.LIGRE.LIEL< OC: 2 1 - -3 -5 38

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PRINTING SEGMENT OF VALUES >CH .CHME.LIGRE.NBNO < 1 - 8

-----  
PRINTING  
OF THE COLLECTION : CH .CHME.LIGRE.NEMA PRINTING OBJET OF COLLECTION  
>CH  
.CHME.LIGRE.NEMA< OC: 1 1 - 1 -1 -2 4 PRINTING OBJET OF COLLECTION >CH.  
CHME.LIGRE.NEMA< OC : 2 1 - 119 -3 -4 4  
PRINTING OBJET OF COLLECTION >CH .CHME.LIGRE.NEMA< OC: 3 1 - 57 -5 -6 4 PRINTING  
OBJET  
OF COLLECTION >CH .CHME.LIGRE.NEMA< OC: 4 1 - 57 -5 -6  
4 PRINTING OBJET OF COLLECTION >CH .CHME.LIGRE.NEMA< OC: 5 1 - 41 -7  
-8 4 PRINTING OBJET  
OF COLLECTION >CH .CHME.LIGRE.NEMA< OC: 6 1 - 41 -7 -8 4  
-----

PRINTING SEGMENT OF VALUES  
>CH .CHME.LIGRE.NOMA < 1 - >M <

-----  
PRINTING SEGMENT OF VALUES >CH .CHME.LIGRE.PRNS < 1  
- 4096 4096 4096 4096 4096 6 - 4096 4096 4096  
-----

PRINTING SEGMENT OF VALUES >CH .CHME.MODEL.NOMO < 1 - >MO <

-----  
PRINTING SEGMENT  
OF VALUES >  
CH .CHME.PRESS.DESC < 1 - 63 2 2 1 9999 6 - 2 3 6 6  
-----

PRINTING OF  
THE COLLECTION : CH  
.CHME.PRESS.LIMA



Titre : Structures de données sd\_char\_meca, sd\_char\_ther e[...]  
Responsable : Jacques PELLET

Date : 01/03/2013 Page : 9/18  
Clé : D4.06.04 Révision : 10571

PRINTING OBJET OF COLLECTION >CH .CHME.PRESS.LIMA< OC: 1 1 - 0 PRINTING  
OBJET OF COLLECTION  
>CH .CHME.PRESS.LIMA< OC: 2 1 - 0

-----  
PRINTING SEGMENT OF VALUES  
>CH .CHME.PRESS.NOLI  
< 1 - > <> <

-----  
PRINTING SEGMENT OF VALUES >CH .CHME.PRESS.NOMA <  
1 - >M <

-----  
PRINTING SEGMENT OF VALUES >CH .CHME.PRESS.VALE < 1 -  
0.00000E+00 0.00000E+00 0.00000E+ 00 0.00000E+00 0.00000  
E+00 6  
- 0.00000E+00 6.00000E+01 0.00000E+00 0.00000E+00 0.00000E+00 11 - 0.00000  
E+00 0.00000E+00  
-----

PRINTING SEGMENT OF VALUES >CH .TYPE < 1 - >MECA\_RE < =====> FIN IMPR\_CO  
OF DATA STRUCTURE: CH? ?????????????????? Data format  
sd\_char\_ther a concept of the type sd\_char \_  
ther contains  
one or more loadings and/or one or more boundary conditions

affected on a thermal model. This concept is produced by one  
of the two operators: AFFE\_CHAR\_THER or AFFE\_CHAR \_  
THER\_F. A concept  
char\_ther is always associated with a mesh, via  
the entities NOEUD, GROUP\_NO, MESH , GROUP\_MA on which

are defined the loadings. On this mesh must have been affected a thermal  
model. A concept sd\_char \_ther can contain  
a sd\_ligrel, known as "ligrel of load". Tree structure of the SD tank  
\_ther sd\_char\_ther (K8):: = record ◊ ".CHTH.MODEL.NOMO": S.E. K8 ◊ "  
.CHTH.CONVE.VALE": S V K8 ◊ ".TYPE":  
S.E. K8 ◊ ".CHTH.LIGRE": sd\_ligrel ◊ ".CHTH.CIMPO": sd\_carte ◊ ".CHTH  
.CMULT": sd\_carte ◊ ".CHTH. COEFH":  
sd\_carte ◊  
".CHTH.FLUNL": sd\_carte ◊ ".CHTH.FLURE": sd \_carte ◊ ".CHTH

## 2 .GRAIN": sd\_carte ◇ ".CHTH.HECHP

" : sd\_carte ◇ ".CHTH.SOURE " : sd\_carte ◇ ".CHTH.T\_EXT" : sd\_carte ◇ ".ELIM" : sd\_char\_cine  
Contained JEVEUX objects ".CHTH.MODEL.NOMO" : name of the model

associated with the load (K8) ".CHTH.CONVE.VALE" : vector of dimension 1 container the name  
of the velocity field

of transport in the case of the equation of diffusion-convection ".TYPE" : type of the load (K8) It  
contains one of the 2 character strings : "THER\_RE" --> real for operator

AFFE\_CHAR\_THER "THER\_FO" --> function for operator AFFE\_CHAR

\_THER\_F Example CHTH =AFFE\_CHAR\_THER (MODELS : MOTH FLUX\_REP: (GROUP\_MA :  
GRMA13 FLUN

### 2.1 : 0.0) (GROUP\_MA: GRMA 14 FLUN

```
: 1729.9091) ECHANGE      : ( GROUP_MA      :  
GRMA 12 COEF_H: 500. TEMP_EXT      : 17.034444  
) TEMP_IMPO: (GROUP_NO      : GRNM 15 TEMP  
: 100.0)); product      :
```

```
==== > IMPR_CO OF DATA STRUCTURE  
: CHTH??? ??? ??????????  
? ATTRIBUT : F CONTENU : T BASE  
:> G< MANY OBJECTS (OR COLLECTIONS  
) FIND: 32 = =====  
==== =====  
==== =====  
==== === PRINTING OF THE CONTENU OF  
THE OBJECTS FIND:
```

-----  
---

### 2.2 PRINTING SEGMENT

```
OF VALUES >CHTH .CHTH.CIMPO.DESC < 1 - 24 2 2 -3 1 6 - -3 2 2 2  
-----
```

PRINTING OF THE COLLECTION: CHTH .CHTH.CIMPO.LIMA PRINTING  
OBJET OF COLLECTION

```
>CHTH .CHTH.CIMPO.LIMA< OC: 1 1 - -1 PRINTING  
OBJET OF COLLECTION >CHTH .CHTH.CIMPO.LIMA< OC: 2 1 -  
-2
```

-----  
-----

PRINTING SEGMENT OF VALUES

## 2.3 >CHTH

```
.CHTH.CIMPO.NOLI < 1 - >CHTH.  CHTH.LIGRE.LIEL<>CHTH .CHTH.LIGRE.LIEL<
-----
---

      PRINTING  SEGMENT OF VALUES >CHTH .CHTH.CIMPO.NOMA < 1 - >MAIL <
-----
---

PRINTING SEGMENT OF VALUES      >CHTH .CHTH.CIMPO.VALE < 1 -
1.00000E+02 1.00000E+02
-----

PRINTING SEGMENT OF VALUES >CHTH .CHTH.CMULT.DESC < 1 - 26 2 2
-3 1 6 - -3 2 2 2
-----

PRINTING OF THE COLLECTION
: CHTH .CHTH.CMULT.LIMA PRINTING OBJET      OF COLLECTION >CHTH
  .CHTH.CMULT.LIMA<          OC:          1          1          - -1
      PRINTING          OBJET
OF COLLECTION >CHTH .CHTH.CMULT.LIMA< OC: 2 1 - -2
-----

      PRINTING SEGMENT
OF VALUES >CHTH .CHTH.CMULT.NOLI < 1 - >CHTH      .CHTH.LIGRE.LIEL<>CHTH
.CHTH.LIGRE.LIEL<
-----

      PRINTING
      SEGMENT
OF VALUES >CHTH .CHTH.CMULT.NOMA < 1 - >MAIL <
-----

      PRINTING SEGMENT
      OF VALUES      >CHTH .CHTH.CMULT.VALE < 1 - 1.00000      E+00 0.00000E
+00 0.00000E+00 0.00000E+00 0.00000E+00 6 - 0.00000E+00 1.00000E+00 0.00000
E+00 0.00000E+00 0.00000E+00 11 -      0.00000E+00 0.00000
E+00
-----

PRINTING
SEGMENT OF VALUES >CHTH .CHTH.COEFH.DESC < 1      - 18 2 2 3 1          6
- 3  2 14 14
-----

PRINTING OF
THE COLLECTION: CHTH .CHTH.COEFH.LIMA PRINTING OBJET      OF COLLECTION
>CHTH
      .CHTH.COEFH.LIMA<          OC          :          1 1
-
      1 2          3          4          5          6
- 6 7 8 9 10 11 - 11 12 13 14 15 16 - 16 17 18 19 20 21 - 21 22
23 24 25 26 - 26 27 28 29 30      31 - 31 32 33
34 35 36 - 36 37 38 39 40 41      - 41 42 43 44  45 46      -
46          47
48 49 50 51 - 51 52 53 54 55 56      - 56 57 58 59  60 61
- 61          62
```

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Titre : Structures de données sd\_char\_meca, sd\_char\_ther e[...]  
Responsable : Jacques PELLET

Date : 01/03/2013 Page : 12/18  
Clé : D4.06.04 Révision : 10571

63 64 65 66 - 66 67 68 69 70 71 - 71 72 73 74 75 76 - 76 77 78  
79 80 81 - 81 83 84 85 86 86 - 87 88 89 90 91  
91 - 92 93 94 95 96 96 - 97 98 99 100 101.101  
- 102 104 PRINTING OBJET OF COLLECTION >CHTH .CHTH.COEFH.LIMA< OC: 2 1 - 82 103

-----  
PRINTING SEGMENT OF VALUES >CHTH .CHTH.COEFH.NOLI < 1 - > <> <

-----  
PRINTING SEGMENT OF VALUES >CHTH .CHTH.COEFH.NOMA < 1 - >MAIL <

-----  
PRINTING SEGMENT OF VALUES  
>CHTH .CHTH.COEFH.VALE < >>>> 1 - 0.00000E+00 0.00000E+00 0.00000E+00 5.00000E+02  
0.00000  
E+00 6 - 0.00000E+00

-----  
PRINTING SEGMENT OF VALUES >CHTH .CHTH.FLURE.DESC < >>>> 1 - 37 2 2 3 1  
6 - 3 2 14 14

-----  
PRINTING OF THE COLLECTION  
: CHTH  
.CHTH.FLURE.LIMA  
PRINTING OBJET OF  
COLLECTION >CHTH .CHTH.FLURE.LIMA<  
OC  
: 1 1 - 1 2 3 4 5 6  
- 6 7 8 9 10 11 -  
11 12 13 14 15 16 -  
16 17 18 19 20 21 -  
21 22 23 24 25 26 -  
26 27 28 29 30 31 -  
31 32 33 34 35 36 -  
36 37 38 39 40 41 -  
41 42 43 44 45 46 -  
46 47 48 49 50 51 -  
51 52 53 54 55 56 -  
56 57 58 59 60 61 -  
61 62 63 64 65 66 -  
66 67 68 69 70 71 -  
71 72 73 74 75 76 -  
76 77 78 79 80 81 -  
81 82 84 85 86 86 - 87  
88 89 90 91  
91 - 92 93 94 95 96 96 - 97 98 99 100 101.101 - 102  
103 104 PRINTING  
OBJET OF COLLECTION >CHTH .CHTH.FLURE.LIMA< OC: 2 1 - 83

-----  
PRINTING  
SEGMENT  
OF VALUES >CHTH .CHTH.FLURE.NOLI < 1 - > <> <

-----  
PRINTING SEGMENT  
OF VALUES >  
CHTH .CHTH.FLURE.NOMA < 1 - >MAIL <

-----  
PRINTING SEGMENT OF VALUES > CHTH

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```
.CHTH.FLURE.VALE
  < 1 - 0.00000E+00  0.00000E+00  0.00000E+00  1.72991E+03  0.00000E+
  00 6 - 0.00000E+
00 -----
PRINTING OF THE COLLECTION: CHTH .CHTH.LIGRE.LIEL PRINTING OBJET
OF COLLECTION
      >CHTH .CHTH.LIGRE.LIEL<
OC:          1          1 -          -1          -2
45 -----
PRINTING SEGMENT OF VALUES >CHTH .CHTH.LIGRE.NBNO < 1 -
4 -----
                                PRINTING
                                THE COLLECTION
      : CHTH .CHTH.LIGRE.NEMA PRINTING
OBJET OF COLLECTION :          1 1          >CHTH
.CHTH.LIGRE.NEMA< OC          :          - 1
-1
-2          4 PRINTING          OBJET
OF COLLECTION          >CHTH
.CHTH.LIGRE.NEMA<
OC:          2 1          -          2 -3          -4
4
-----
                                PRINTING
                                SEGMENT
OF VALUES          >CHTH .CHTH.LIGRE.NOMA
< 1
- >MAIL          <
-----
                                PRINTING
SEGMENT OF VALUES          >CHTH
.CHTH.LIGRE.PRNS < 1          -          16          16
16
16
-----
PRINTING SEGMENT OF VALUES
  >CHTH
.CHTH.MODEL.NOMO < 1 - >MOTH <
-----
PRINTING SEGMENT OF VALUES >CHTH .CHTH
. T_EXT .DESC
< 1 - 74 2 2 3 1 6 - 3 2 14 14
-----
PRINTING OF
THE COLLECTION
: CHTH .CHTH.T_EXT.LIMA PRINTING OBJET OF COLLECTION >CHTH .CHTH.T_EXT.LIMA
< OC: 1 1 - 1 2 3 4 5 6 - 6 7 8 9 10 11 - 11
12 13 14 15 16 - 16 17 18 19 20 21 - 21 22 23 24 25 26
- 26 27 28
29 30 31 - 31 32 33 34 35 36 - 36 37 38 39 40 41 - 41 42 43 44 45
46 - 46 47 48 49 50 51 - 51 52 53 54 55 56
- 56 57 58 59 60 61 - 61 62 63 64 65 66 - 66 67 68
69 70 71 - 71
72 73 74 75 76 - 76 77 78 79 80 81 - 81 83 84 85 86 86 - 87 88
89 90 91 91 - 92 93 94 95 96 96 - 97 98 99 100
101
```

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.

101 - 102 104 PRINTING OBJET OF COLLECTION >CHTH .CHTH.T\_EXT.LIMA< OC:  
2 1 - 82 103

-----  
PRINTING SEGMENT OF VALUES  
> CHTH . CHTH . T  
\_EXT.NOLI < 1 - > <> <

-----  
PRINTING SEGMENT OF VALUES >CHTH .CHTH.T\_EXT.NOMA <  
1 - >MAIL <

-----  
PRINTING SEGMENT OF VALUES >CHTH .CHTH.T\_EXT.VALE <

1 - 0.00000E+00 0.00000E+00 0.00000 E+00 0.00000E+00  
1.70344 E+ 01 6 - 0.00000  
E+00 0.00000E+00 0.00000E+00

-----  
PRINTING SEGMENT OF  
VALUES >CHTH  
.TYPE < 1 - >THER\_RE < ==> FIN IMPR\_CO OF DATA STRUCTURE: CHTH??  
???????????????? Data format sd\_char\_acou a concept  
of the type sd \_char  
\_acou contains one or more  
loadings affected on an acoustic model. This concept is produced  
by the operator: AFFE\_CHAR \_ACOU. A concept  
sd\_char\_acou is always associated with a mesh, via  
the entities  
NOEUD , GROUP\_NO  
 , MESH , GROUP\_MA  
on which are defined  
the loadings . On  
this mesh must  
have been affected an acoustic  
model . A concept  
sd\_char \_acou can contain  
a ligrel , known as "  
ligrel of load " . Tree structure  
sd\_char of SD CHAR\_ACOU (K8 ):: =  
record (F) ".CHAC.MODEL.NOMO" : S.E.  
K8 (F) ".TYPE " : S.E. K8  
(F) ". CHAC .LIGRE " : sd\_  
ligrel (F) ".CHAC . CIMPO "  
: sd \_carte ( F) ". .CHAC  
.CMULT  
" : sd\_carte (F) ".  
(F) ".CHAC .VITFA " sd \_carte (F)  
) ".CHAC .VITFA "  
: sd\_carte (F) ".ELIM": sd\_char\_cine Contained JEVEUX objects  
" ".CHAC.MODEL.NOMO": name  
of the acoustic model associated with the load (K8) ".TYPE": type of the load  
(K8) Contains character string "ACOU\_RE" (assignment of reality  
) Example CHARACOU  
= AFFE\_CHAR\_ACOU (MODELS: GUIDE VITE\_FACE: (GROUP\_MA: ENTRY VNOR: IH 0.014  
0.) IMPE\_FACE: (GROUP\_MA: OUTPUT IMPE: IH 445.9 0. ))  
; product:

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```
====> IMPR_CO OF DATA STRUCTURE: CHARACOU????????????????? ATTRIBUT: F
CONTENU: T BASE: >G< MANY OBJECTS (OR COLLECTIONS) FIND
: 12 =====
=====
===== PRINTING OF THE CONTENU
OF THE OBJECTS FIND:
```

```
-----
PRINTING SEGMENT OF VALUES
>CHARACOU.CHAC.IMPED.DESC <
1 - 46 2 2 3 1 6 - 3 2 2 2
-----
```

## 3

PRINTING OF THE COLLECTION : CHARACOU.CHAC.IMPED.LIMA PRINTING OBJET OF  
COLLECTION >CHARACOU.CHAC.IMPED.LIMA< OC: 1 1 - 1 2 3

4 9 6 - 10 11 12 13 14 11 - 15 16 17 18 19 16 -

20 21 22 23 24 21 - 25 26 27 28 29 26 - 30 31 32 33 34 31 - 35 36 37 38 39 36 - 40 41 42 43 44  
41 - 45 46 47 48 49 46 - 50 51 52 53 54 51 - 55 56 57

58 59 56 - 60 61 62 63 64 61 - 65 66 67 68 PRINTING

OBJET OF COLLECTION >CHARACOU.CHAC.IMPED.LIMA < OC: 2 1 - 5 6 7 8

### 3.1

PRINTING

SEGMENT OF VALUES >CHARACOU.CHAC.IMPED. NOLI < 1 -  
> <> <

-----  
---

PRINTING SEGMENT OF VALUES  
>CHARACOU.CHAC.IMPED.NOMA < 1 - >MAIL <

-----  
---

### 3.2 PRINTING SEGMENT

OF VALUES >CHARACOU.CHAC.IMPED. VALE < 1 - (0.00000E+00, 0.00000E+00) (4.45900E+02,  
0.00000

E+00 ) -----

### 3.3 PRINTING

SEGMENT OF VALUES >CHARACOU.CHAC.MODEL.NOMO < 1 - >GUIDE  
<

-----  
---

PRINTING

SEGMENT OF

VALUES >CHARACOU.CHAC.VITFA.DESC < 1 - 76 2 2 3 1 6 - 3 2 2 2

-----

PRINTING OF

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THE COLLECTION: CHARACOU.CHAC.VITFA.LIMA PRINTING OBJET OF COLLECTION

>CHARACOU.CHAC.VITFA.LIMA< OC: 1 1 - 1 2

3 4 PRINTING OBJET OF COLLECTION >CHARACOU.CHAC.VITFA.LIMA

< OC: 2 1 - 5 6 7 8 9 6 - 10 11 12 13 14 11 - 15 16 17 18 19

16 - 20 21 22 23 24 21 - 25 26 27 28 29 26 - 30

31 32 33 34 31 -

35 36 37 38

39 36 - 40 41 42 43 44 41 - 45 46 47 48 49 46 - 50 51 52 53 54

51 - 55 56 57 58 59 56 - 60 61 62 63 64 61 -

65 66 67 68

-----  
< OF PRINTING SEGMENT NOLI  
>CHARACOU.CHAC.VITFA.  
< 1 - > <> <

-----  
< SEGMENT OF PRINTING VALUES >  
CHARACOU.CHAC.VITFA.NOMA < 1 - > MAIL

-----  
PRINTING SEGMENT  
OF VALUES >CHARACOU.CHAC.VITFA.VALE < 1 - (1.40000E-02, 0.00000E+00) (0.00000  
E+00 , E +00 )

-----  
PRINTING  
SEGMENT OF VALUES >CHARACOU.TYPE < 1 - >ACOU\_RE <

