

Data-processing description of LIRE_RESU

1 Drank

This document is a data-processing description of the command LIRE_RESU, whose role is lira of the fields at nodes or fields by elements on a file with the format "IDEAS", "ENSIGHT".

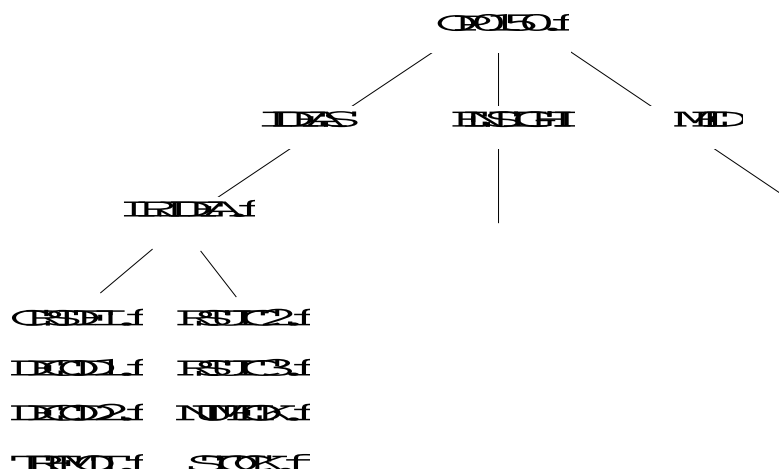
One finds:

- the list of the principal routines used by the command, as well as short abstract of their features.
- routines to modify to allow the addition of a new format of reading,
- the routines to be modified for the addition of new types of results as well as new fields in the frame of the format IDEAS.

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2 Shaft of call of the principal routines of LIRE_RESU

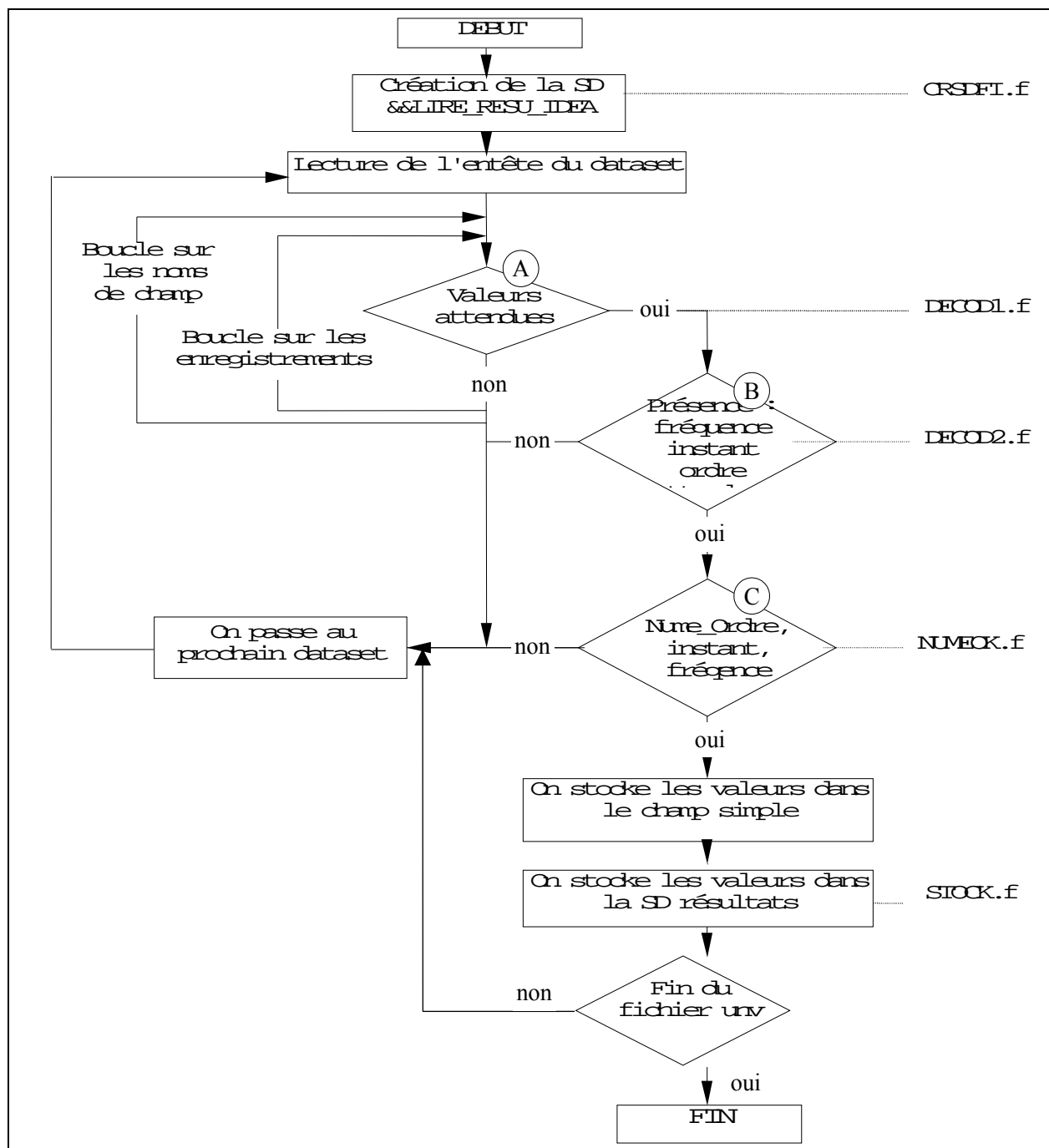


Appear 2-a: OP0150.f

3 Description of the routines observers in the shaft of call

OP0150.f	Program main of the command LIRE_RESU. This routine treats in-house ensight format . Med format is not available.
LRIDEA.f main	Program of reading of the results files to the universal format "unv" RSUTC
2.f This	routine makes it possible starting from the name of the field to determine the name of the quantity ("DEPL_R") associated and the type of the SD results ("NOEU", "ELNO", "ELGA ") RSUTC
3.f This	routine makes it possible to determine the access mode "FREQ " or "INST " according to the type of results CRSDFI.f
Creation	and initialization of SD FORMAT_IDEAS , it allows identified in the universal file "unv" the dataset which will be read. This SD is described in detail in the document [D4.02.xx]. NUMEOK.f
This routine	checks if the sequence number, time or the frequency read in the dataset correspond to that or that required. DECOD1.f
From	the information contained in the SD FORMAT_IDEAS , this routine checks if the heading of the dataset read, corresponds to that required. DECOD2.f
From	the information contained in the SD FORMAT_IDEAS , this routine extracts the sequence number, time or the frequency STOCK.f This
routine	stores the results contained in the simple field (cham_no, cham_lem) in the SD results. Flow chart

4 of Iridea Figure 4-a



: Flow chart of Iridea.f Note: A:

one checks

- if the values read in the heading of the dataset correspond to those expected. B: one checks
- if there exists at the place indicated by SD FORMAT_IDEAS of information of the types whole or real to identify the sequence number, or time or the frequency . C: it is checked
- if the sequence number, or time or the frequency corresponds has that or that expected. Evolutions In

5 this paragraph

one presents works to be undertaken for the addition of new features. One specifies for each evolution the files with modified and the nature of the modifications. New format

5.1 results the addition of a new

format results (ex: "MED") implies the modification of the following files: op0150.f:

a structure "IF THEN ELSE" allows the introduction of the new format,
lire_resu.cata:
addition of the type of format. Format IDEAS New
new

5.2 type of results

5.2.1 the addition of a new

type of results ("DYNA_TRANS", "EVOL_THME") implies the modification of the following files: lire_resu.cata: addition

of the new type of results, rsutc3.f: definition
of the access ("INST", "FREQ") associated with the new type of results. New
mode field the addition

5.2.2 of a new

type of results ("DYNA_TRANS", "EVOL_THME") implies the modification of the following files: lire_resu.cata: addition

of the new crsdfi.f: definition of
field,
the
characteristics of the new field, SD FORMAT_IDEAS created and initialized in this
the name of the routine is defined in the document [D4.02.06], rsutc2.f: definition of
quantity ("DEPL_R", "TEMP_R") and of the type of the SD ("NOEU",
"ELNO", "ELGA") associated with the new field.