

## header\_correct\_plus

This program adds new parameters to the header of a data cube. To use this program, first of all, it's necessary to provide the following parameters (which must be added to the section "input parameters" in the program's script):

cube: name of the initial data cube (full path).

finalcube: name of the data cube (full path) with the corrected header.

extension: value of the extension of the data cube that will be used by the program. If the cube has just one extension, then it must be taken the value 0 for this parameter.

logfile: name of the logfile (full path) to be created.

After providing these parameters, the program shall be initiated. The following questions will, then, appear, sequentially, to the user:

"How many string parameters do you wish to add to the data cube header? " (1)

"How many scalar parameters do you wish to add to the data cube header? " (2)

These questions must be answered according to the purposes of the user. If the user does not wish to include string parameters or does not want to include scalar parameters in the header of the data cube, then, the answer of the corresponding question must be 0. If the answer to the question (1) is a value greater than 0, the following messages will appear sequentially to the user:

"Enter the name of the file containing the names of the string parameters to be added to the data cube header: " (3)

"Enter the name of the file containing the string parameters to be added to the data cube header: " (4)

The file corresponding to the message (3) must be configured in the following way:

```
name_parameter1
name_parameter2
.
.
.
name_parameterN
```

where name\_parameter1, name\_parameter2, ... and name\_parameterN  
are the names of the parameters that will be added to the header  
of the data cube

The file corresponding to the message (4) must be configured in the following way:

```
parameter1  
parameter2  
.  
.  
.  
parameterN
```

where parameter1, parameter2, ... and parameterN are the parameters that will be added to the header of the data cube

It's important to mention that the order of the parameters mentioned in this file must correspond to the order of the parameters mentioned in the previous file.

If the answer to the question (2) is a value greater than 0, the following messages will appear sequentially to the user:

"Enter the name of the file containing the names of the scalar parameters to be added to the data cube header: " (5)

"Enter the name of the file containing the scalar parameters to be added to the data cube header: " (6)

The files requested by these two messages must be configured in the same way of those corresponding to the messages (3) and (4).