

CFD_program

1.0

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Chapter 1

File Index

1.1 File List

Here is a list of all documented files with brief descriptions:

src/file_io/ common.c	...	??
src/file_io/ file_in.c		
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src/file_io/ file_ooooooo.c	...	??
src/file_io/ file_out.c	...	??

Chapter 2

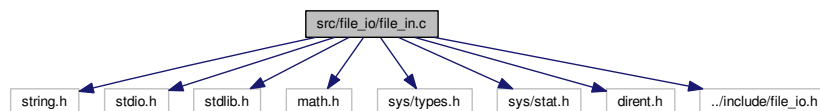
File Documentation

2.1 src/file_io/file_in.c File Reference

This file is a collection of functions used to read files and check whether they are qualified.

```
#include <string.h>
#include <stdio.h>
#include <stdlib.h>
#include <math.h>
#include <sys/types.h>
#include <sys/stat.h>
#include <dirent.h>
#include "../include/file_io.h"
```

Include dependency graph for file_in.c:



Functions

- int **file_pre_read** (FILE *fp, char *file_add, int test_rc)
This function counts how many numbers are there in the initial data file.
- void **initialize** (char *add, double *F)
- void **configure** (char *add)
- int **config_check** (void)

Variables

- int **flag** = 0
count help
- double **config** [200]

2.1.1 Detailed Description

This file is a collection of functions used to read files and check whether they are qualified.

Author

Du Zhifang, Lei Xin

2.1.2 Function Documentation

2.1.2.1 `int file_pre_read (FILE * fp, char * file_add, int test_rc)`

This function counts how many numbers are there in the initial data file.

Author

Du Zhifang, Lei Xin

Parameters

in	<i>fp</i>	The pointer of the file to read in.
in	<i>test_rc</i> <i>_lc</i>	Whether there is test for the range of data in the initial data file: <ul style="list-style-type: none"> • 0 or 1 : no test, • 2 : 2-D test (CR separates row), • 3 : 3-D test (CR separates row, blank line separates column in x-y plane).

Returns

The number of the numbers in the initial data file.

Return values

-1	The given number of column is not coincided with that in the data file.

It helps us to count.

We read characters one by one from the data file. The value of "flag" is:

- 1: when we read a number-using character (0, 1, 2, ..., e, E, minus sign and the dot).
- 0: when we read a non-number-using character.

Parameters

in	?!?!	
----	------	--

< count help

Definition at line 35 of file file_in.c.

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