get_next_line

Generated by Doxygen 1.8.16

1 File Index 1
1.1 File List 1

2 File Documentation 1
2.1 get_next_line.c File Reference 1
2.1.1 Function Documentation 2
2.2 get_next_line.h File Reference 3
2.2.1 Macro Definition Documentation 3
2.2.2 Function Documentation 4
2.3 README.md File Reference 5

Index 7

1 File Index

1.1 File List

Here is a list of all files with brief descriptions:

get_next_line.c 1

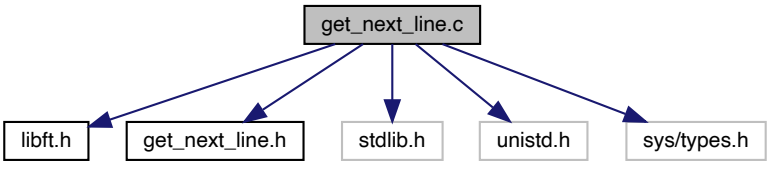
get_next_line.h 3

2 File Documentation

2.1 get_next_line.c File Reference

```
#include "libft.h"
#include "get_next_line.h"
#include <stdlib.h>
#include <unistd.h>
#include <sys/types.h>
```

Include dependency graph for get_next_line.c:



Functions

- int get_next_line (const int fd, char **line)

  Reads and returns a line read from a line descriptor.

2.1.1 Function Documentation

2.1.1.1 get_next_line()

```
int get_next_line (
        const int fd,
        char ** line )
```

Reads and returns a line read from a line descriptor.

Reads a line from a file descriptor, where a line is defined as a succession of characters that end with `'\n'` or with `EOF`. The function can read from a file, the standard output, redirection etc, as well as multiple file descriptors simultaneously.

Parameters

in	*fd*	The file descriptor used to read.
out	*line*	The address pointing to a string that is dynamically allocated by the function and used to save the line read from the file descriptor

Return values

1	a line has been read
0	reading has been completed
-1	an error happened

Note

The line is returned without `'\n'`.

Warning

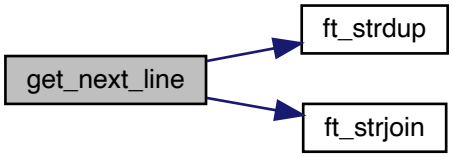
The function has an undefined behaviour if, between two calls, the same file descriptor designs two distinct files althugh the reading from the first file was not completed, or if a call to `lseek(2)` was made.

Remarks

- The maximum number of file descriptors supported is controlled by the macro MAX_FD.
- The size of the reading buffer is defined by the macro BUFF_SIZE.

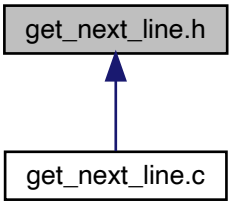
References BUFF_SIZE, ft_strdup(), ft_strjoin(), and MAX_FD.

Here is the call graph for this function:



2.2 get_next_line.h File Reference

This graph shows which files directly or indirectly include this file:



Macros

- #define MAX_FD 512
- #define BUFF_SIZE 32

Functions

- int get_next_line (const int fd, char **line)

  Reads and returns a line read from a line descriptor.

2.2.1 Macro Definition Documentation

2.2.1.1 BUFF_SIZE `#define BUFF_SIZE 32`

Controls the size of the read buffer. Increasing it can lead to a speed-up due to a reduced number of system calls, but will increase the function memory usage.

2.2.1.2 MAX_FD `#define MAX_FD 512`

Controls the largest file description, as well the overall number of file descriptors, that can be simultaneously processed.

2.2.2 Function Documentation

2.2.2.1 get_next_line() `int get_next_line ( const int fd, char ** line )`

Reads and returns a line read from a line descriptor.

Reads a line from a file descriptor, where a line is defined as a succession of characters that end with `'\n'` or with `EOF`. The function can read from a file, the standard output, redirection etc, as well as multiple file descriptors simultaneously.

Parameters

`in`	*fd*	The file descriptor used to read.
`out`	*line*	The address pointing to a string that is dynamically allocated by the function and used to save the line read from the file descriptor

Return values

1	a line has been read
0	reading has been completed
-1	an error happened

Note

The line is returned without `'\n'`.

Warning

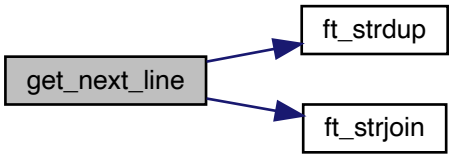
The function has an undefined behaviour if, between two calls, the same file descriptor designs two distinct files althugh the reading from the first file was not completed, or if a call to `lseek(2)` was made.

Remarks

- The maximum number of file descriptors supported is controlled by the macro MAX_FD.
- The size of the reading buffer is defined by the macro BUFF_SIZE.

References BUFF_SIZE, ft_strdup(), ft_strjoin(), and MAX_FD.

Here is the call graph for this function:



2.3 README.md File Reference

Index

BUFF_SIZE
    get_next_line.h, 3

get_next_line
    get_next_line.c, 2
    get_next_line.h, 4
get_next_line.c, 1
    get_next_line, 2
get_next_line.h, 3
    BUFF_SIZE, 3
    get_next_line, 4
    MAX_FD, 3

MAX_FD
    get_next_line.h, 3

README.md, 5