LP25 project

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Chapter 1

Data Structure Index

1.1 Data Structures

Here are the data structures with brief descriptions:

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2 Data Structure Index

Chapter 2

File Index

2.1 File List

Here is a list of all files with brief descriptions:

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File Index

Chapter 3

Data Structure Documentation

3.1 _directory Struct Reference

```
#include <types.h>
```

Data Fields

- char * name
- time_t mod_time
- struct _directory * subdirs
- s_file * files
- struct _directory * next_dir

3.1.1 Detailed Description

Definition at line 48 of file types.h.

3.1.2 Field Documentation

3.1.2.1 files

```
s_file* files
```

list of the file in the directory

Definition at line 52 of file types.h.

3.1.2.2 mod_time

```
time_t mod_time
```

modification time of the directory

Definition at line 50 of file types.h.

3.1.2.3 name

```
char* name
```

name of the directory

Definition at line 49 of file types.h.

3.1.2.4 next_dir

```
struct _directory* next_dir
```

next directory in the list of directory

Definition at line 53 of file types.h.

3.1.2.5 subdirs

```
struct _directory* subdirs
```

list of the subdirs in the directory

Definition at line 51 of file types.h.

The documentation for this struct was generated from the following file:

• src/types.h

3.2 _file Struct Reference

```
#include <types.h>
```

Data Fields

- e_type file_type
- char * name
- time t mod time
- uint64_t file_size
- unsigned char * md5sum
- struct _file * pointed_file
- struct _file * next_file

3.2.1 Detailed Description

Definition at line 31 of file types.h.

3.2.2 Field Documentation

3.2.2.1 file_size

uint64_t file_size

size of the file

Definition at line 35 of file types.h.

3.2.2.2 file_type

e_type file_type

type of the file

Definition at line 32 of file types.h.

3.2.2.3 md5sum

unsigned char* md5sum

value of the md5sum of the file

Definition at line 36 of file types.h.

3.2.2.4 mod_time

```
time_t mod_time
```

modification time of the file

Definition at line 34 of file types.h.

3.2.2.5 name

```
char* name
```

name of the file

Definition at line 33 of file types.h.

3.2.2.6 next_file

```
struct _file* next_file
```

next file in the link list of file

Definition at line 38 of file types.h.

3.2.2.7 pointed_file

```
struct _file* pointed_file
```

file pointed by the file if it is a soft link

Definition at line 37 of file types.h.

The documentation for this struct was generated from the following file:

• src/types.h

3.3 s_directory Struct Reference

strucrure for a dir and all the data about it and all it's component

```
#include <types.h>
```

3.3.1 Detailed Description

strucrure for a dir and all the data about it and all it's component

Author

Florian CLOAREC

The documentation for this struct was generated from the following file:

• src/types.h

3.4 s_file Struct Reference

structure for the file and all the data about it

```
#include <types.h>
```

3.4.1 Detailed Description

structure for the file and all the data about it

Author

Florian CLOAREC

The documentation for this struct was generated from the following file:

• src/types.h

Chapter 4

File Documentation

4.1 src/include.h File Reference

header file that contain all the header file to include in the other part

```
#include <linux/limits.h>
#include <time.h>
#include <openss1/md5.h>
#include <stdlib.h>
#include <sys/types.h>
#include <dirent.h>
#include <stdio.h>
#include <stdint.h>
#include <string.h>
#include <fcntl.h>
#include <sys/stat.h>
#include <unistd.h>
#include <stdbool.h>
#include "types.h"
#include "scan.h"
#include "md5sum.h"
#include "utils.h"
#include "tree.h"
#include "save.h"
```

4.1.1 Detailed Description

header file that contain all the header file to include in the other part

Author

Florian Cloarec

Version

0.1

Date

07 June 2021

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4.2 src/main.c File Reference

main file that contain the main fuction of the project

```
#include "include.h"
```

Functions

• int main (int argc, char *argv[])

4.2.1 Detailed Description

main file that contain the main fuction of the project

Author

Florian Cloarec

Version

0.1

Date

15 June 2021

Copyright

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4.2.2 Function Documentation

4.2.2.1 main()

```
int main (
          int argc,
          char * argv[] )
```

Definition at line 14 of file main.c.

4.3 src/md5sum.c File Reference

source file that contain the implementation of the function in the md5sum part of the project

```
#include "include.h"
```

Functions

```
    int compute_md5 (char *path, unsigned char buffer[])
    compute the md5sum of a file
```

4.3.1 Detailed Description

source file that contain the implementation of the function in the md5sum part of the project

Author

Florian Cloarec

Version

0.1

Date

15 June 2021

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4.3.2 Function Documentation

4.3.2.1 compute_md5()

compute the md5sum of a file

Parameters

path	: the path of the file to compute
buffer	: the buffer where the result is written

Returns

int: control value 1 if succes

Author

Florian CLOAREC

Definition at line 14 of file md5sum.c.

4.4 src/md5sum.h File Reference

header file of the function in the md5sum part of the project

Functions

int compute_md5 (char *path, unsigned char buffer[])
 compute the md5sum of a file

4.4.1 Detailed Description

header file of the function in the md5sum part of the project

Author

Florian Cloarec

Version

0.1

Date

11 June 2021

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4.4.2 Function Documentation

4.4.2.1 compute_md5()

compute the md5sum of a file

Parameters

path	: the path of the file to compute
buffer	: the buffer where the result is written

Returns

int : control value 1 if succes

Author

Florian CLOAREC

Definition at line 14 of file md5sum.c.

4.5 src/save.c File Reference

source file that contain the implementation of the function in the save part of the project

```
#include "include.h"
```

Functions

- int save_to_file (s_directory *root, char *path_to_target, const char *current_path)
- int save_to_file_recursive (FILE *output, s_directory *current_dir, int depth, const char *current_path)
- int write_file (FILE *output, s_file file, const char *path_to_parent_dir)
- int write_directory (FILE *output, s_directory dir, const char *path_to_parent_dir)
- int write_other (FILE *output, s_file file, const char *path_to_parent_dir)
- char * generateFileName ()

4.5.1 Detailed Description

source file that contain the implementation of the function in the save part of the project

Version

0.1

Date

15 June 2021

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4.5.2 Function Documentation

4.5.2.1 generateFileName()

```
char* generateFileName ( )
```

Generate file name for save_to_file

Returns

The filepath

Definition at line 124 of file save.c.

4.5.2.2 save_to_file()

Save the directory tree in the file

Parameters

root	root to save
path_to_target	file target
current_path	directory's path

Returns

int

Definition at line 13 of file save.c.

4.5.2.3 save_to_file_recursive()

```
int save_to_file_recursive (
    FILE * output,
    s_directory * current_dir,
    int indentation_level,
    const char * current_path )
```

Internal: function that is called recursively to save the tree

Parameters

output	output file
current_dir	directory to process
indentation_level	depth level (tabulations)
current_path	directory's path

Returns

int

Definition at line 28 of file save.c.

4.5.2.4 write_directory()

```
int write_directory (
          FILE * output,
           s_directory dir,
          const char * path_to_parent_dir )
```

Write a directory line

Parameters

output	the output file
dir	directory to write
path_to_parent_dir	the path to paste before the directory name

Returns

int

Definition at line 98 of file save.c.

4.5.2.5 write_file()

Write a file line

Parameters

output	the output file
file	file to write
path_to_parent_dir	the path to paste before the file name

Returns

int

Definition at line 73 of file save.c.

4.5.2.6 write_other()

Definition at line 111 of file save.c.

4.6 src/save.h File Reference

header file of the function in the save part of the project

Functions

- int save_to_file (s_directory *root, char *path_to_target, const char *current_path)
- int save_to_file_recursive (FILE *output, s_directory *current_dir, int indentation_level, const char *current
 path)
- int write_file (FILE *output, s_file file, const char *path_to_parent_dir)
- int write_directory (FILE *output, s_directory dir, const char *path_to_parent_dir)
- char * generateFileName ()

4.6.1 Detailed Description

header file of the function in the save part of the project

Author

Florian Cloarec

Version

0.1

Date

15 June 2021

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4.6.2 Function Documentation

4.6.2.1 generateFileName()

```
char* generateFileName ( )
```

Generate file name for save_to_file

Returns

The filepath

Definition at line 124 of file save.c.

4.6.2.2 save_to_file()

Save the directory tree in the file

Parameters

root	root to save
path_to_target	file target
current_path	directory's path

Returns

int

Definition at line 13 of file save.c.

4.6.2.3 save_to_file_recursive()

Internal: function that is called recursively to save the tree

Parameters

output	output file
current_dir	directory to process
indentation_level	depth level (tabulations)
current_path	directory's path

Returns

int

Definition at line 28 of file save.c.

4.6.2.4 write_directory()

```
int write_directory (
          FILE * output,
           s_directory dir,
          const char * path_to_parent_dir )
```

Write a directory line

Parameters

output	the output file
dir	directory to write
path_to_parent_dir	the path to paste before the directory name

Returns

int

Definition at line 98 of file save.c.

4.6.2.5 write_file()

Write a file line

Parameters

output	the output file
file	file to write
path_to_parent_dir	the path to paste before the file name

Returns

int

Definition at line 73 of file save.c.

4.7 src/scan.c File Reference

source file that contain the implementation of the function in the scan part of the project

```
#include "include.h"
```

Functions

• s_directory * process_dir (char *path, bool computeMd5)

recursive function that scan a directory and create the struct in memory with all the sub directory and file

s_file * process_file (char *path, bool computeMd5)

create and compute the struct s_file whit the data of a file

4.7.1 Detailed Description

source file that contain the implementation of the function in the scan part of the project

Author

Florian Cloarec

Version

0.1

Date

07 June 2021

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4.7.2 Function Documentation

4.7.2.1 process_dir()

recursive function that scan a directory and create the struct in memory with all the sub directory and file

Parameters

```
path : the path of the directory to scan
```

Returns

s_directory* : the struct with all the data about the directory

Author

Florian CLOAREC

Definition at line 14 of file scan.c.

4.7.2.2 process_file()

create and compute the struct s_file whit the data of a file

Parameters

```
path : the path of the file to compute
```

Returns

s_file*: the struct with all the data avout the file

Author

Florian CLOAREC

Definition at line 67 of file scan.c.

4.8 src/scan.h File Reference

header file of the function and struct in the scan part of the project

Functions

- s_directory * process_dir (char *path, bool computeMd5)
- recursive function that scan a directory and create the struct in memory with all the sub directory and file
- s_file * process_file (char *path, bool computeMd5)

create and compute the struct $s_{\it file}$ whit the data of a file

4.8.1 Detailed Description

header file of the function and struct in the scan part of the project

Author

Florian Cloarec

Version

0.1

Date

07 June 2021

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4.8.2 Function Documentation

4.8.2.1 process_dir()

recursive function that scan a directory and create the struct in memory with all the sub directory and file

Parameters

```
path: the path of the directory to scan
```

Returns

 $s_directory*$: the struct with all the data about the directory

Author

Florian CLOAREC

Definition at line 14 of file scan.c.

4.8.2.2 process_file()

create and compute the struct s_file whit the data of a file

Parameters

```
path: the path of the file to compute
```

Returns

s_file*: the struct with all the data avout the file

Author

Florian CLOAREC

Definition at line 67 of file scan.c.

4.9 src/tree.c File Reference

source file that contain the implementation of the function in the tree part of the project

```
#include "include.h"
```

Functions

```
    int append_subdir (s_directory *child, s_directory *parent)
    add a element at the end of the link list of directory
```

• int append_file (s_file *child, s_directory *parent)

add an element at the end of the link list of file

void clear_files (s_directory *parent)

clear propely a whole link list of file

• void clear_subdirs (s_directory *parent)

clear propely a vhole link list of directory

void free_s_file (s_file *file)

free a s_file variable

• void free_s_directory (s_directory *dir)

free a s_directory variable

4.9.1 Detailed Description

source file that contain the implementation of the function in the tree part of the project

Version

0.1

Date

15 June 2021

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4.9.2 Function Documentation

4.9.2.1 append_file()

add an element at the end of the link list of file

Parameters

child	: the element to add
parent	: the list to ad it

Returns

int : control value

Author

Florian CLOAREC

Definition at line 31 of file tree.c.

4.9.2.2 append_subdir()

add a element at the end of the link list of directory

Parameters

child	: the element to add
parent	: the list to add it

Returns

int : control value

Author

Florian CLOAREC

Definition at line 13 of file tree.c.

4.9.2.3 clear_files()

clear propely a whole link list of file

Parameters

parent	: the list to clear
--------	---------------------

Author

Florian CLOAREC

Definition at line 47 of file tree.c.

4.9.2.4 clear_subdirs()

clear propely a vhole link list of directory

Parameters

parent	: the list to clear
--------	---------------------

Author

Florian CLOAREC

Definition at line 58 of file tree.c.

4.9.2.5 free_s_directory()

```
void free_s_directory (  s\_directory * dir )
```

free a s_directory variable

Parameters

```
dir : the dir to clear
```

Author

Florian CLOAREC

Definition at line 78 of file tree.c.

4.9.2.6 free_s_file()

free a s_file variable

Parameters

```
file : the file to clear
```

Author

Florian CLOAREC

Definition at line 72 of file tree.c.

4.10 src/tree.h File Reference

header file of the function and struct in the tree part of the project

Functions

```
    int append_subdir (s_directory *child, s_directory *parent)
        add a element at the end of the link list of directory
    int append_file (s_file *child, s_directory *parent)
        add an element at the end of the link list of file
    void clear_files (s_directory *parent)
        clear propely a whole link list of file
    void clear_subdirs (s_directory *parent)
        clear propely a vhole link list of directory
    void free_s_file (s_file *file)
        free a s_file variable
    void free_s_directory (s_directory *dir)
        free a s_directory variable
```

4.10.1 Detailed Description

header file of the function and struct in the tree part of the project

Author

Florian Cloarec

Version

0.1

Date

15 June 2021

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4.10.2 Function Documentation

4.10.2.1 append_file()

add an element at the end of the link list of file

Parameters

child	: the element to add
parent	: the list to ad it

Returns

int : control value

Author

Florian CLOAREC

Definition at line 31 of file tree.c.

4.10.2.2 append_subdir()

add a element at the end of the link list of directory

Parameters

child	: the element to add
parent	: the list to add it

Returns

int : control value

Author

Florian CLOAREC

Definition at line 13 of file tree.c.

4.10.2.3 clear_files()

clear propely a whole link list of file

Parameters

Author

Florian CLOAREC

Definition at line 47 of file tree.c.

4.10.2.4 clear_subdirs()

clear propely a vhole link list of directory

Parameters

parent	: the list to clear
--------	---------------------

Author

Florian CLOAREC

Definition at line 58 of file tree.c.

4.10.2.5 free_s_directory()

```
void free_s_directory ( s\_directory \ * \ dir \ )
```

free a s_directory variable

Parameters

dir	: the dir to clear

Author

Florian CLOAREC

Definition at line 78 of file tree.c.

4.10.2.6 free_s_file()

free a s_file variable

Parameters

```
file : the file to clear
```

Author

Florian CLOAREC

Definition at line 72 of file tree.c.

4.11 src/types.h File Reference

file that contain all the struct used in this project

Data Structures

- struct file
- struct _directory

Typedefs

- typedef struct file s file
- typedef struct _directory s_directory

Enumerations

```
    enum e_type { DIRECTORY, REGULAR_FILE, SYMBOLIK_LINK, OTHER_TYPE }
        possible type for a file
```

4.11.1 Detailed Description

file that contain all the struct used in this project

Author

Florian Cloarec

Version

0.1

Date

15 June 2021

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4.11.2 Typedef Documentation

4.11.2.1 s_directory

```
typedef struct _directory s_directory
```

4.11.2.2 s_file

```
typedef struct _file s_file
```

4.11.3 Enumeration Type Documentation

4.11.3.1 e_type

```
enum e_type
```

possible type for a file

Author

Florian CLOAREC

Enumerator

DIRECTORY	
REGULAR_FILE	
SYMBOLIK_LINK	
OTHER_TYPE	

Definition at line 23 of file types.h.

4.12 src/utils.c File Reference

implementation file of the function who can be util for all part of the project

```
#include "include.h"
```

Functions

```
    char * getFilePath (char *fileName, char *dirPath)
        Get the File Path object.
    char * getFileName (char *path)
        Get the File Name object.
```

4.12.1 Detailed Description

implementation file of the function who can be util for all part of the project

Author

Florian Cloarec

Version

0.1

Date

07 June 2021

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GNU GENERAL PUBLIC LICENSE

4.12.2 Function Documentation

4.12.2.1 getFileName()

Get the File Name object.

Parameters

```
path : the name of the file
```

Returns

char*: the pointer on the created string

Author

Florian CLOAREC

Definition at line 24 of file utils.c.

4.12.2.2 getFilePath()

Get the File Path object.

Parameters

fileName	: the name of the file
dirPath	: the path of the file

Returns

char*: the pointer on the created string

Author

Florian CLOAREC

Definition at line 14 of file utils.c.

4.13 src/utils.h File Reference

header file of the function and struct who can be util for all part of the project

Functions

```
    char * getFilePath (char *fileName, char *dirPath)
    Get the File Path object.
```

• char * getFileName (char *path)

Get the File Name object.

4.13.1 Detailed Description

header file of the function and struct who can be util for all part of the project

Author

Florian Cloarec

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0.1

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4.13.2 Function Documentation

4.13.2.1 getFileName()

Get the File Name object.

Parameters

path: the name of the file

Returns

char*: the pointer on the created string

Author

Florian CLOAREC

Definition at line 24 of file utils.c.

4.13.2.2 getFilePath()

Get the File Path object.

Parameters

fileName	: the name of the file
dirPath	: the path of the file

Returns

char* : the pointer on the created string

Author

Florian CLOAREC

Definition at line 14 of file utils.c.

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