

FManC

1.0.0

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## 1 Welcome to the FManC documentation website !

### Copyright

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## 2 Todo List

### Global `copyFileWithoutTabAndLineBreak` (char \*sourceFilePath, char \*\*pathToCopy)

Check if the path to copy has a name and an extension at the end.

Move it to `code_utils.h`

### Global `SHARED`

I should change the name of "STATIC" to something like "FMANC\_STATIC" to avoid any problems in case someone wants to use two libs with the same define system

## 3 Module Index

### 3.1 Modules

Here is a list of all modules:

**File management utilities**

**4**

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Functions	5
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## 4 File Index

### 4.1 File List

Here is a list of all files with brief descriptions:

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src/ <a href="#">analyze.h</a>	19
src/ <a href="#">code_utils.c</a>	24
src/ <a href="#">code_utils.h</a>	24
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This header contains macro definitions and function declarations that are written in <a href="#">this file</a>	
src/ <a href="#">fman.c.h</a>	32
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## 5 Module Documentation

### 5.1 Constant macros

This submodule contains constant macros used by the lib.

Collaboration diagram for Constant macros:



## Macros

- `#define MAX_FEXT_SIZE 50`
- `#define MAX_FNAME_SIZE 256`
- `#define MAX_FPATH_SIZE 512`

### 5.1.1 Detailed Description

This submodule contains constant macros used by the lib.

#### Author

Axel PASCON (a.k.a. brvtalcake)

#### Date

2022

### 5.1.2 Macro Definition Documentation

#### 5.1.2.1 MAX\_FEXT\_SIZE `#define MAX_FEXT_SIZE 50`

##### Author

Axel PASCON (a.k.a. brvtalcake)

##### Date

2022

This the value of the maximum size of a file extension counted in characters.

Definition at line 91 of file [fileMan.h](#).

#### 5.1.2.2 MAX\_FNAME\_SIZE `#define MAX_FNAME_SIZE 256`

##### Author

Axel PASCON (a.k.a. brvtalcake)

##### Date

2022

This the value of the maximum size of a file name counted in characters.

Definition at line 102 of file [fileMan.h](#).

### 5.1.2.3 MAX\_FPATH\_SIZE `#define MAX_FPATH_SIZE 512`

#### Author

Axel PASCON (a.k.a. brvtalcake)

#### Date

2022

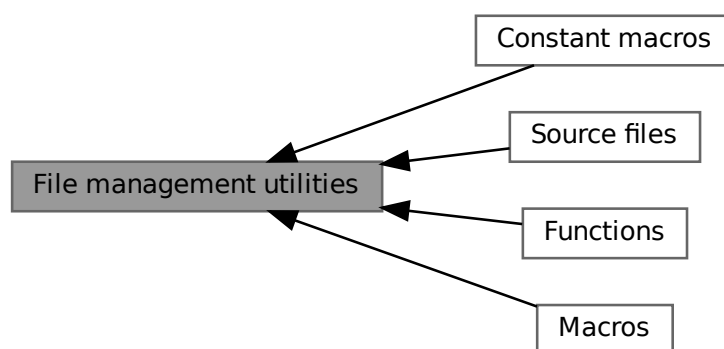
This the value of the maximum size of a file path (full (relative or not) path without name and extension) counted in characters.

Definition at line 113 of file [fileMan.h](#).

## 5.2 File management utilities

This module provides utilities to manage informations about files.

Collaboration diagram for File management utilities:



### Modules

- [Constant macros](#)

*This submodule contains constant macros used by the lib.*

- [Functions](#)

*This submodule contains the functions related to file management utilities.*

- [Macros](#)

*This submodule contains macros related to files management facilities.*

- [Source files](#)

*This submodule contains files related to file management utilities.*

### 5.2.1 Detailed Description

This module provides utilities to manage informations about files.

**Author**

Axel PASCON (a.k.a. brvtalcake)

**Date**

2022

## 5.3 Functions

This submodule contains the functions related to file management utilities.

Collaboration diagram for Functions:

**Functions**

- char \* [copyFileWithoutTabAndLineBreak](#) (char \*sourceFilePath, char \*\*pathToCopy)  
*Copy a file without tab and line break.*

### 5.3.1 Detailed Description

This submodule contains the functions related to file management utilities.

**Author**

Axel PASCON (a.k.a. brvtalcake)

**Date**

2022

### 5.3.2 Function Documentation

**5.3.2.1 copyFileWithoutTabAndLineBreak()** `char * copyFileWithoutTabAndLineBreak (`  
    `char * sourceFilePath,`  
    `char ** pathToCopy )`

Copy a file without tab and line break.

#### Author

Axel PASCON (a.k.a. brvtalcake)

#### Date

2022

The copied file will be renamed as `<sourceFile name>_copied.<sourceFileExtension>` if the param `pathToCopy` is set to `NULL`, and what you want if you specify the path with a name and extension.

**Todo** Check if the path to copy has a name and an extension at the end.

Move it to [code\\_utils.h](#)

#### Parameters

<i>sourceFilePath</i>	The source file path.
<i>pathToCopy</i>	The path to copy. You can set it to <code>NULL</code> if you want the copied file to be in the same directory as the source file.

#### Return values

<i>sourceFileName</i>	This case is when no error has occurred.
<i>NULL</i>	If an error has occurred.

Definition at line 7 of file [fileMan.c](#).

References [getFileExtension](#), and [getFileName](#).

## 5.4 General macros

These macros are intended to be defined if you need to modify the headers to be included, or to modify the expansion of the [SHARED macro](#) for Windows users.

#### Macros

- `#define SHARED`  
*Useful to choose how to use the lib on Windows systems.*
- `#define USE_CODE_UTILS`  
*This macro provides access to more functions.*



### 5.4.1 Detailed Description

These macros are intended to be defined if you need to modify the headers to be included, or to modify the expansion of the [SHARED macro](#) for Windows users.

#### Author

Axel PASCON (a.k.a. brvtalcake)

#### Date

2022

### 5.4.2 Macro Definition Documentation

#### 5.4.2.1 SHARED `#define SHARED`

Useful to choose how to use the lib on Windows systems.

#### Author

Axel PASCON (a.k.a. brvtalcake)

#### Date

2022

If you want to use the lib with the dll, you don't need to add anything in the command line. If you want to use the static version of the lib, then put "-D STATIC" in your command line when compiling, so you let the compiler know that the keyword "SHARED" is set to nothing and the function declarations are not provided with the `__declspec()` attribute. You can also look at the full macro block below (wich is also in the source code of all of the headers) to see what I mean

```
# if (defined(_WIN32) || defined(WIN32))
#   if defined(STATIC)
#     define SHARED
#   else
#     if defined(BUILD_DLL)
#       define SHARED __declspec(dllexport)
#     else
#       define SHARED __declspec(dllimport)
#     endif
#   endif
# else
#   define SHARED
# endif // Definition of SHARED macro
```

**Todo** I should change the name of "STATIC" to something like "FMANC\_STATIC" to avoid any problems in case someone wants to use two libs with the same define system

Definition at line 78 of file [fmanc.h](#).

#### 5.4.2.2 `USE_CODE_UTILS` `#define USE_CODE_UTILS`

This macro provides access to more functions.

##### Author

Axel PASCON (a.k.a. brvtalcake)

##### Date

2022

For example, if you want to use the functions defined in [this](#) or [this](#) source file, then write something like

```
#define USE_CODE_UTILS TRUE
```

or

```
cc -D USE_CODE_UTILS ...
```

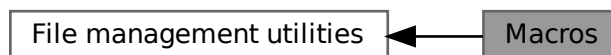
(actually, just define `USE_CODE_UTILS` with no value or with a certain value, no matter what it is). `USE_CODE_UTILS` isn't defined by default.

Definition at line [101](#) of file [fmanc.h](#).

## 5.5 Macros

This submodule contains macros related to files management facilities.

Collaboration diagram for Macros:



### Macros

- `#define getFileExtension(sourceFilePath, extension) char extension[MAX\_FEXT\_SIZE] = ""; fgetFileExtension(sourceFilePath, extension)`  
*Gives you the file extension.*
- `#define getFileName(sourceFilePath, name) char name[MAX\_FNAME\_SIZE] = ""; fgetFileName(sourceFilePath, name)`  
*Gives you the file name.*
- `#define getFilePath(sourceFilePath, path) char path[MAX\_FPATH\_SIZE] = ""; fgetFilePath(sourceFilePath, path)`  
*Gives you the file path (without name and extension).*

### 5.5.1 Detailed Description

This submodule contains macros related to files management facilities.

#### Author

Axel PASCON (a.k.a. brvtalcake)

#### Date

2022

### 5.5.2 Macro Definition Documentation

**5.5.2.1 getFileExtension** `#define getFileExtension(  
 sourceFilePath,  
 extension ) char extension[MAX_FEXT_SIZE] = ""; fgetFileExtension(sourceFile↵  
Path, extension)`

Gives you the file extension.

#### Author

Axel PASCON (a.k.a. brvtalcake)

#### Date

2022

It is stored in an array of char with the name you specify (extension).

#### Parameters

in	<i>sourceFilePath</i>	Full path or relative path.
out	<i>extension</i>	The name of the array where you store the extension.

#### Returns

This doesn't really return anything, but displays an error message if no extension or invalid extension. Moreover, you should check the emptiness of the created variable.

Definition at line 137 of file [fileMan.h](#).

**5.5.2.2 getFileName** `#define getFileName(  
 sourceFilePath,  
 name ) char name[MAX_FNAME_SIZE] = ""; fgetFileName(sourceFilePath, name)`

Gives you the file name.

**Author**

Axel PASCON (a.k.a. brvtalcake)

**Date**

2022

It is stored in an array of char with the name you specify (*name*).

**Parameters**

in	<i>sourceFilePath</i>	Full path or relative path.
out	<i>name</i>	The name of the array where you stock the name.

**Returns**

This doesn't really return anything, but displays an error message if no name or invalid name. Moreover, you should check the emptiness of the created variable.

Definition at line [153](#) of file [fileMan.h](#).

**5.5.2.3 getFilePath** `#define getFilePath(  
 sourceFilePath,  
 path ) char path[MAX_FPATH_SIZE] = ""; fgetPath(sourceFilePath, path)`

Gives you the file path (without name and extension).

**Author**

Axel PASCON (a.k.a. brvtalcake)

**Date**

2022

It is stored in an array of char with the name you specify (*extension*).

**Parameters**

in	<i>sourceFilePath</i>	Full path or relative path.
out	<i>path</i>	The name of the array where you stock the path.

### Returns

This doesn't really return anything, but if the path is like "main.c", then the array will have '\0' as only character. Won't display any error message if no path. Here again, check the emptiness of the created variable.

Definition at line 169 of file [fileMan.h](#).

## 5.6 Main header

This header should be included if you don't know precisely what to include.

### Files

- file [fmanc.h](#)

*This is the main header of the lib, where all of the headers are included.*

### 5.6.1 Detailed Description

This header should be included if you don't know precisely what to include.

### Author

Axel PASCON (a.k.a. brvtalcake)

### Date

2022

## 5.7 Source files

This submodule contains files related to file management utilities.

Collaboration diagram for Source files:



### Files

- file [fileMan.h](#)

*This header contains macro definitions and function declarations that are written in [this file](#).*

### 5.7.1 Detailed Description

This submodule contains files related to file management utilities.

#### Author

Axel PASCON (a.k.a. brvtalcake)

#### Date

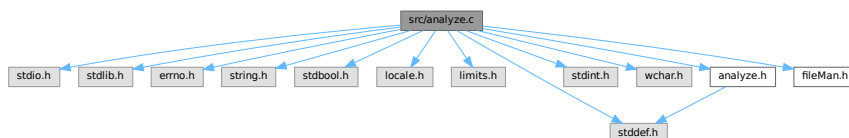
2022

## 6 File Documentation

### 6.1 docs/documentation\_pages/main\_page.dox File Reference

### 6.2 src/analyze.c File Reference

Include dependency graph for analyze.c:



#### Functions

- `size_t` [countCharInFile](#) (`char *filePath`)
- `void` [free\\_stringOccurrences](#) (`stringOccurrences *toBeDeleted`)
- `stringOccurrences *` [init\\_stringOccurrences](#) (`size_t sizeOfString`)
- `int` [replaceStringInFile](#) (`char *filePath`, `char *toReplaceString`, `char *toAddString`)
- `stringOccurrences *` [searchStringInFile](#) (`char *filePath`, `char *toSearch`)

#### 6.2.1 Function Documentation

**6.2.1.1 countCharInFile()** `size_t countCharInFile (`  
`char * filePath )`

Definition at line 14 of file [analyze.c](#).

Referenced by [searchStringInFile\(\)](#).

Here is the caller graph for this function:



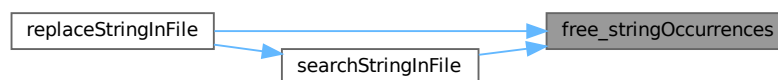
**6.2.1.2 free\_stringOccurrences()** `void free_stringOccurrences (`  
`stringOccurrences * toBeDeleted )`

Definition at line 47 of file [analyze.c](#).

References [FManC\\_StrOcc::pos](#).

Referenced by [replaceStringInFile\(\)](#), and [searchStringInFile\(\)](#).

Here is the caller graph for this function:



**6.2.1.3 init\_stringOccurrences()** `stringOccurrences * init_stringOccurrences (`  
`size_t sizeOfString )`

Definition at line 35 of file [analyze.c](#).

References [FManC\\_StrOcc::charCount](#), and [FManC\\_StrOcc::pos](#).

Referenced by [searchStringInFile\(\)](#).

Here is the caller graph for this function:

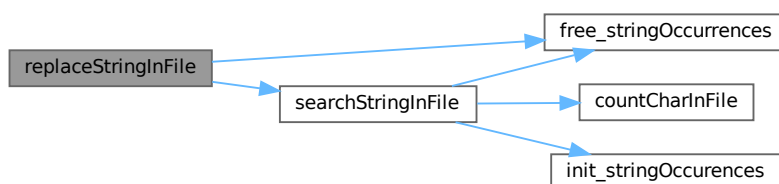


**6.2.1.4 replaceStringInFile()** `int replaceStringInFile (`  
    `char * filePath,`  
    `char * toReplaceString,`  
    `char * toAddString )`

Definition at line 155 of file [analyze.c](#).

References [FManC\\_StrOcc::charCount](#), [free\\_stringOccurrences\(\)](#), [getFileExtension](#), [getFileName](#), [getFilePath](#), [MAX\\_FEXT\\_SIZE](#), [MAX\\_FNAME\\_SIZE](#), [MAX\\_FPATH\\_SIZE](#), [FManC\\_StrOcc::pos](#), and [searchStringInFile\(\)](#).

Here is the call graph for this function:



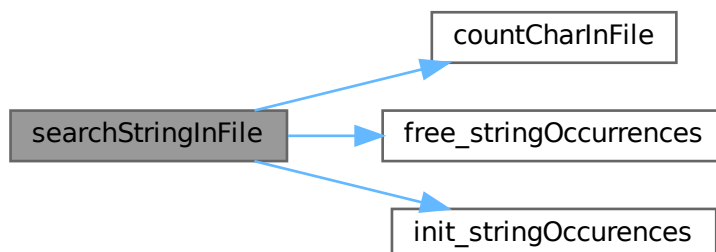
**6.2.1.5 searchStringInFile()** `stringOccurrences * searchStringInFile (`  
    `char * filePath,`  
    `char * toSearch )`

Definition at line 54 of file [analyze.c](#).

References [countCharInFile\(\)](#), [free\\_stringOccurrences\(\)](#), [getFileName](#), [init\\_stringOccurrences\(\)](#), and [FManC\\_StrOcc::pos](#).

Referenced by [replaceStringInFile\(\)](#).

Here is the call graph for this function:





Here is the caller graph for this function:



## 6.3 analyze.c

[Go to the documentation of this file.](#)

```

00001 #include <stdio.h>
00002 #include <stdlib.h>
00003 #include <errno.h>
00004 #include <string.h>
00005 #include <stdbool.h>
00006 #include <locale.h>
00007 #include <limits.h>
00008 #include <stddef.h>
00009 #include <stdint.h>
00010 #include <wchar.h>
00011 #include "analyze.h"
00012 #include "fileMan.h"
00013
00014 SHARED size_t countCharInFile(char *filePath)
00015 {
00016     errno = 0;
00017     setlocale(LC_ALL, "fr_FR.UTF8");
00018     FILE *fil = fopen(filePath, "r", ccs=UTF-8");
00019     if (fil == NULL)
00020     {
00021         fprintf(stderr, "Error :%s\n", strerror(errno));
00022         return -1;
00023     }
00024     size_t returned = 0;
00025     rewind(fil);
00026     while (fgetwc(fil) != WEOF)
00027     {
00028         returned++;
00029     }
00030     fclose(fil);
00031     return returned;
00032 }
00033
00034 SHARED stringOccurrences *init_stringOccurrences(size_t sizeOfString)
00035 {
00036     long long int *position = malloc(sizeof(long long int));
00037     *position = -1;
00038     stringOccurrences *returned = malloc(sizeof(stringOccurrences));
00039     returned->pos = position;
00040     returned->charCount = sizeOfString;
00041     return returned;
00042 }
00043
00044 SHARED void free_stringOccurrences(stringOccurrences *toBeDeleted)
00045 {
00046     free(toBeDeleted->pos);
00047     free(toBeDeleted);
00048 }
00049
00050 SHARED stringOccurrences *searchStringInFile(char *filePath, char *toSearch)
00051 {
00052     errno = 0;
00053     wchar_t toSearchW[strlen(toSearch)+1];
00054     if (setlocale(LC_ALL, "fr_FR.UTF8") == NULL)
00055     {
00056         fprintf(stderr, "Error :%s\n", strerror(errno));
00057         return NULL;
00058     }
  
```

```

00063     }
00064
00065     if (mbstowcs(toSearchW, toSearch, strlen(toSearch)) == (size_t) - 1)
00066     {
00067         fprintf(stderr, "Error :%s\n", strerror(errno));
00068         return NULL;
00069     }
00070
00071     toSearchW[strlen(toSearch)] = L'\0';
00072
00073     if (countCharInFile(filePath) > LLONG_MAX || wcslen(toSearchW) > SIZE_MAX)
00074     {
00075         getFileName(filePath, fErrorName);
00076         fprintf(stderr, "Error : your file named \"%s\" contains too much characters\n", fErrorName);
00077         return NULL;
00078     }
00079
00080     stringOccurrences *occurrencesToSearch = init_stringOccurrences(wcslen(toSearchW));
00081
00082
00083     FILE *fil = fopen(filePath, "r", ccs=UTF-8");
00084     if (fil == NULL)
00085     {
00086         fprintf(stderr, "Error :%s\n", strerror(errno));
00087         free_stringOccurrences(occurrencesToSearch);
00088         return NULL;
00089     }
00090     rewind(fil);
00091
00092     unsigned int cpt_occ = 0;
00093     wint_t temp[wcslen(toSearchW)+1];
00094     for (size_t i = 0; i < wcslen(toSearchW)+1; ++i)
00095     {
00096         temp[i] = L'\0';
00097     }
00098     size_t cpt = 0;
00099
00100     long long int cpt2 = 0;
00101     cpt2 = ftell(fil);
00102     wint_t temp2 = fgetwc(fil);
00103     while(temp2 != WEOF)
00104     {
00105         fseek(fil, cpt2, SEEK_SET);
00106         while(cpt <= wcslen(toSearchW))
00107         {
00108             temp[cpt] = fgetwc(fil);
00109
00110             if (temp[cpt] != (wint_t)toSearchW[cpt] || temp[cpt] == WEOF)
00111             {
00112                 if (temp[cpt] == (wint_t)toSearchW[cpt])
00113                 {
00114                     cpt++;
00115                 }
00116                 break;
00117             }
00118             else
00119             {
00120                 cpt++;
00121             }
00122         }
00123
00124         if (cpt == wcslen(toSearchW))
00125         {
00126             cpt_occ++;
00127             occurrencesToSearch->pos = realloc(occurrencesToSearch->pos, cpt_occ*sizeof(long long));
00128             *(occurrencesToSearch->pos + cpt_occ - 1) = cpt2;
00129         }
00130         cpt = 0;
00131         for (size_t i = 0; i < wcslen(toSearchW)+1; ++i)
00132         {
00133             temp[i] = L'\0';
00134         }
00135         fseek(fil, cpt2, SEEK_SET);
00136         temp2 = fgetwc(fil);
00137         cpt2 = ftell(fil);
00138     }
00139     if (cpt_occ == 0)
00140     {
00141         occurrencesToSearch->pos = realloc(occurrencesToSearch->pos, sizeof(long long));
00142         *(occurrencesToSearch->pos) = -1;
00143     }
00144     else
00145     {
00146         occurrencesToSearch->pos = realloc(occurrencesToSearch->pos, (cpt_occ + 1)*sizeof(long long));
00147         *(occurrencesToSearch->pos + cpt_occ) = -1;
00148     }
00149

```

```

00150     fclose(fil);
00151     return occurrencesToSearch;
00152 }
00153
00154
00155 SHARED int replaceStringInFile(char *filePath, char *toReplaceString, char *toAddString)
00156 {
00157     stringOccurrences *toReplaceOccurrences = searchStringInFile(filePath, toReplaceString);
00158     errno = 0;
00159     wchar_t toAdd[strlen(toAddString)+1];
00160     wchar_t toReplace[strlen(toReplaceString)+1];
00161
00162     if (toReplaceOccurrences == NULL || *(toReplaceOccurrences->pos) == -1)
00163     {
00164         return 3;
00165     }
00166
00167     if (setlocale(LC_ALL, "fr_FR.UTF8") == NULL)
00168     {
00169         fprintf(stderr, "Error :%s\n", strerror(errno));
00170         return -3;
00171     }
00172
00173     if (mbstowcs(toAdd, toAddString, strlen(toAddString)) == (size_t) - 1)
00174     {
00175         fprintf(stderr, "Error :%s\n", strerror(errno));
00176         return -4;
00177     }
00178
00179     if (mbstowcs(toReplace, toReplaceString, strlen(toReplaceString)) == (size_t) - 1)
00180     {
00181         fprintf(stderr, "Error :%s\n", strerror(errno));
00182         return -4;
00183     }
00184
00185     toAdd[strlen(toAddString)] = L'\0';
00186     toReplace[strlen(toReplaceString)] = L'\0';
00187
00188     FILE *filToR = fopen(filePath, "r", ccs=UTF-8);
00189     if (filToR == NULL)
00190     {
00191         fprintf(stderr, "Error :%s\n", strerror(errno));
00192         return -1;
00193     }
00194     rewind(filToR);
00195
00196     getFilePath(filePath, sFilePath);
00197
00198
00199     getFileName(filePath, sFileName);
00200     if (sFileName[0] == '\0')
00201     {
00202         return -2;
00203     }
00204
00205     getFileExtension(filePath, sFileExt);
00206     if (sFileExt[0] == '\0')
00207     {
00208         return -2;
00209     }
00210
00211     FILE *filToW = NULL;
00212     char *replaced = "replaced";
00213     char *tempName = malloc((MAX_FNAME_SIZE + MAX_FPATH_SIZE + MAX_FEXT_SIZE)*sizeof(char));
00214     *tempName = '\0';
00215     if (sFilePath[0] != '\0')
00216     {
00217         tempName = strcat(tempName, sFilePath);
00218         tempName = strcat(tempName, replaced);
00219         tempName = strcat(tempName, sFileExt);
00220         filToW = fopen(tempName, "w+", ccs=UTF-8);
00221     }
00222     else
00223     {
00224         tempName = strcat(tempName, replaced);
00225         tempName = strcat(tempName, sFileExt);
00226         filToW = fopen(tempName, "w+", ccs=UTF-8);
00227     }
00228
00229
00230     if (filToW == NULL)
00231     {
00232         fprintf(stderr, "Error :%s\n", strerror(errno));
00233         return -1;
00234     }
00235     rewind(filToW);
00236

```

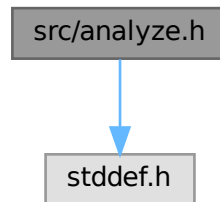
```

00237     int cpt = 0;
00238     int old_cpt = 0;
00239     wint_t temp = L'\0';
00240     wint_t temp2 = fgetwc(filToR);
00241
00242
00243     while (temp2 != WEOF)
00244     {
00245         ungetwc(temp2, filToR);
00246         while (*(toReplaceOccurrences->pos + cpt) != -1 && *(toReplaceOccurrences->pos + cpt) >= 0)
00247         {
00248             if (ftell(filToR) == *(toReplaceOccurrences->pos + cpt))
00249             {
00250                 for (size_t i = 0; i < wcslen(toAdd); ++i)
00251                 {
00252                     if (fputwc(toAdd[i], filToW) != (wint_t) toAdd[i])
00253                     {
00254                         fprintf(stderr, "ERR :%s\n", strerror(errno));
00255                         return 1;
00256                     }
00257                 }
00258                 cpt++;
00259                 for (size_t i = 0; i < toReplaceOccurrences->charCount; ++i)
00260                 {
00261                     if (fgetwc(filToR) == WEOF)
00262                         break;
00263                 }
00264             }
00265
00266             if (temp2 != WEOF && old_cpt == cpt)
00267             {
00268                 temp = fgetwc(filToR);
00269                 if (fputwc(temp, filToW) != temp)
00270                 {
00271                     fprintf(stderr, "ERR :%s\n", strerror(errno));
00272                     return 1;
00273                 }
00274             }
00275             else
00276             {
00277                 old_cpt++;
00278             }
00279         }
00280
00281         if (temp != WEOF)
00282         {
00283             temp = fgetwc(filToR);
00284             if (fputwc(temp, filToW) != temp)
00285             {
00286                 fprintf(stderr, "ERR :%s\n", strerror(errno));
00287                 return 1;
00288             }
00289         }
00290         temp2 = fgetwc(filToR);
00291     }
00292
00293     fclose(filToR);
00294     fclose(filToW);
00295
00296     if (remove(filePath) != 0)
00297     {
00298         fprintf(stderr, "ERR :%s\n", strerror(errno));
00299         return 2;
00300     }
00301     else if (rename(tempName, filePath) != 0)
00302     {
00303         fprintf(stderr, "ERR :%s\n", strerror(errno));
00304         return 2;
00305     }
00306
00307     free(tempName);
00308     free_stringOccurrences(toReplaceOccurrences);
00309
00310     return 0;
00311 }

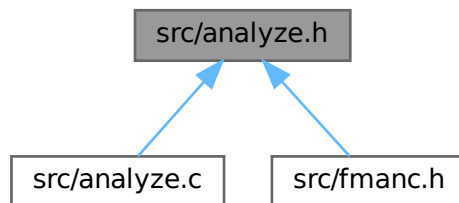
```

## 6.4 src/analyze.h File Reference

Include dependency graph for analyze.h:



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



### Data Structures

- struct [FManC\\_StrOcc](#)

### Macros

- #define [SHARED](#)

### Typedefs

- typedef struct [FManC\\_StrOcc](#) [stringOccurrences](#)

### Functions

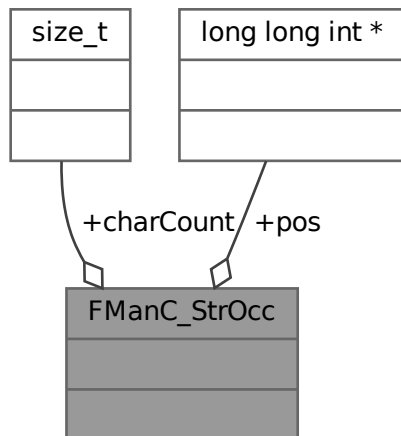
- int [copyFileWithoutStrings](#) (const unsigned int argc, char \*filePath,...)
- size\_t [countCharInFile](#) (char \*filePath)
- void [free\\_stringOccurrences](#) ([stringOccurrences](#) \*toBeDeleted)
- [stringOccurrences](#) \* [init\\_stringOccurrences](#) (size\_t sizeOfString)
- int [replaceStringInFile](#) (char \*filePath, char \*toReplaceString, char \*toAddString)
- [stringOccurrences](#) \* [searchStringInFile](#) (char \*filePath, char \*toSearch)

## 6.4.1 Data Structure Documentation

### 6.4.1.1 struct FManC\_StrOcc

 Definition at line 25 of file [analyze.h](#).

Collaboration diagram for FManC\_StrOcc:



#### Data Fields

size_t	charCount	
long long int *	pos	

## 6.4.2 Macro Definition Documentation

### 6.4.2.1 SHARED

 #define SHARED

Definition at line 18 of file [analyze.h](#).

## 6.4.3 Typedef Documentation

### 6.4.3.1 stringOccurrences

 typedef struct FManC\_StrOcc stringOccurrences

Definition at line 31 of file [analyze.h](#).

### 6.4.4 Function Documentation

**6.4.4.1 copyFileWithoutStrings()** `int copyFileWithoutStrings (`  
    `const unsigned int argc,`  
    `char * filePath,`  
    `... )`

**6.4.4.2 countCharInFile()** `size_t countCharInFile (`  
    `char * filePath )`

Definition at line 14 of file [analyze.c](#).

Referenced by [searchStringInFile\(\)](#).

Here is the caller graph for this function:



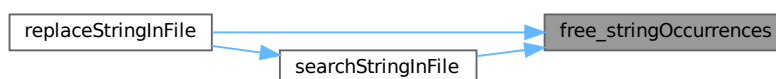
**6.4.4.3 free\_stringOccurrences()** `void free_stringOccurrences (`  
    `stringOccurrences * toBeDeleted )`

Definition at line 47 of file [analyze.c](#).

References [FManC\\_StrOcc::pos](#).

Referenced by [replaceStringInFile\(\)](#), and [searchStringInFile\(\)](#).

Here is the caller graph for this function:



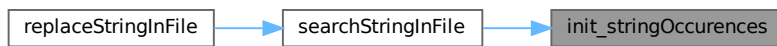
**6.4.4.4** `init_stringOccurrences()` `stringOccurrences * init_stringOccurrences (`  
`size_t sizeofString )`

Definition at line 35 of file [analyze.c](#).

References [FManC\\_StrOcc::charCount](#), and [FManC\\_StrOcc::pos](#).

Referenced by [searchStringInFile\(\)](#).

Here is the caller graph for this function:

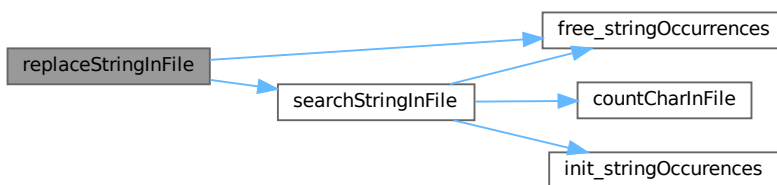


**6.4.4.5** `replaceStringInFile()` `int replaceStringInFile (`  
`char * filePath,`  
`char * toReplaceString,`  
`char * toAddString )`

Definition at line 155 of file [analyze.c](#).

References [FManC\\_StrOcc::charCount](#), [free\\_stringOccurrences\(\)](#), [getFileExtension](#), [getFileName](#), [getFilePath](#), [MAX\\_FEXT\\_SIZE](#), [MAX\\_FNAME\\_SIZE](#), [MAX\\_FPATH\\_SIZE](#), [FManC\\_StrOcc::pos](#), and [searchStringInFile\(\)](#).

Here is the call graph for this function:





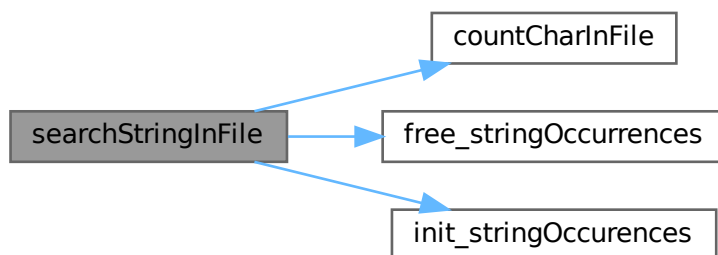
**6.4.4.6 searchStringInFile()** `stringOccurrences * searchStringInFile (`  
`char * filePath,`  
`char * toSearch )`

Definition at line 54 of file [analyze.c](#).

References [countCharInFile\(\)](#), [free\\_stringOccurrences\(\)](#), [getFileName](#), [init\\_stringOccurrences\(\)](#), and [FManC\\_StrOcc::pos](#).

Referenced by [replaceStringInFile\(\)](#).

Here is the call graph for this function:



Here is the caller graph for this function:



## 6.5 analyze.h

[Go to the documentation of this file.](#)

```

00001 #ifndef ANALYZE_H
00002 #define ANALYZE_H
00003
00004 # if (defined(_WIN32) || defined(WIN32))
00005 /***** "D STATIC" *****/
00006 #   if defined(STATIC)
00007 #     define SHARED
00008 /***** "D BUILD_DLL" *****/
00009 #   else
00010 #     if defined(BUILD_DLL)
00011 #       define SHARED __declspec(dllexport)
00012 #     else
00013 #       define SHARED __declspec(dllimport)
00014 #     endif
00015 #   endif
00016 /***** DEFAULT *****/
00017 # else
00018 #   define SHARED
  
```

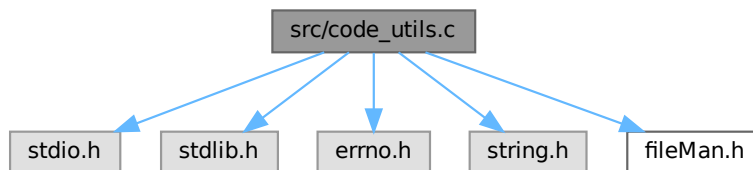
```

00019 # endif
00020
00021
00022 #include <stddef.h>
00023
00024
00025 SHARED struct FManC_StrOcc
00026 {
00027     size_t charCount;
00028     long long int *pos;
00029 };
00030
00031 SHARED typedef struct FManC_StrOcc stringOccurrences;
00032
00033 SHARED size_t countCharInFile(char *filePath);
00034 SHARED stringOccurrences *init_stringOccurrences(size_t sizeOfString);
00035 SHARED void free_stringOccurrences(stringOccurrences *toBeDeleted);
00036 SHARED stringOccurrences *searchStringInFile(char *filePath, char *toSearch);
00037 SHARED int replaceStringInFile(char *filePath, char *toReplaceString, char *toAddString);
00038 SHARED int copyFileWithoutStrings(const unsigned int argc, char *filePath, ...); // to do
00039
00040
00041 #endif
00042

```

## 6.6 src/code\_utils.c File Reference

Include dependency graph for code\_utils.c:



## 6.7 code\_utils.c

[Go to the documentation of this file.](#)

```

00001 #include <stdio.h>
00002 #include <stdlib.h>
00003 #include <errno.h>
00004 #include <string.h>
00005 #include "fileMan.h"
00006

```

## 6.8 src/code\_utils.h File Reference

### Macros

- #define `SHARED`

### 6.8.1 Macro Definition Documentation

### 6.8.1.1 SHARED #define SHARED

Definition at line 18 of file [code\\_utils.h](#).

## 6.9 code\_utils.h

[Go to the documentation of this file.](#)

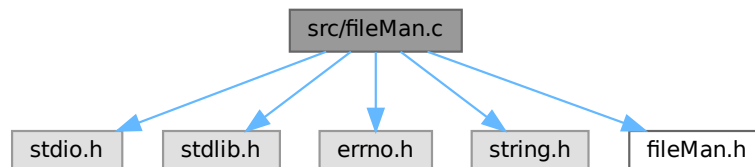
```

00001 #ifndef CODE_UTILS_H
00002 #define CODE_UTILS_H
00003
00004 # if (defined(_WIN32) || defined(WIN32))
00005 /***** "D STATIC" *****/
00006 #   if defined(STATIC)
00007 #       define SHARED
00008 /***** "D BUILD_DLL" *****/
00009 #   else
00010 #       if defined(BUILD_DLL)
00011 #           define SHARED __declspec(dllexport)
00012 #       else
00013 #           define SHARED __declspec(dllimport)
00014 #       endif
00015 #   endif
00016 /***** DEFAULT *****/
00017 # else
00018 #   define SHARED
00019 # endif
00020
00021 #endif

```

## 6.10 src/fileMan.c File Reference

Include dependency graph for fileMan.c:



### Functions

- char \* [copyFileWithoutTabAndLineBreak](#) (char \*sourceFilePath, char \*\*pathToCopy)  
Copy a file without tab and line break.
- void [fgetFileExtension](#) (const char \*const sourceFilePath, char \*extension)
- void [fgetFileName](#) (const char \*const sourceFilePath, char \*fileName)
- void [fgetFilePath](#) (const char \*const sourceFilePath, char \*filePath)

### 6.10.1 Function Documentation

**6.10.1.1 fgetFileExtension()** `void fgetFileExtension (`  
    `const char *const sourceFilePath,`  
    `char * extension )`

Definition at line 67 of file [fileMan.c](#).

References [MAX\\_FEXT\\_SIZE](#), [MAX\\_FNAME\\_SIZE](#), and [MAX\\_FPATH\\_SIZE](#).

**6.10.1.2 fgetFileName()** `void fgetFileName (`  
    `const char *const sourceFilePath,`  
    `char * fileName )`

Definition at line 115 of file [fileMan.c](#).

References [MAX\\_FEXT\\_SIZE](#), [MAX\\_FNAME\\_SIZE](#), and [MAX\\_FPATH\\_SIZE](#).

**6.10.1.3 fgetFilePath()** `void fgetFilePath (`  
    `const char *const sourceFilePath,`  
    `char * filePath )`

Definition at line 188 of file [fileMan.c](#).

References [MAX\\_FEXT\\_SIZE](#), [MAX\\_FNAME\\_SIZE](#), and [MAX\\_FPATH\\_SIZE](#).

## 6.11 fileMan.c

[Go to the documentation of this file.](#)

```
00001 #include <stdio.h>
00002 #include <stdlib.h>
00003 #include <errno.h>
00004 #include <string.h>
00005 #include "fileMan.h"
00006
00007 SHARED char *copyFileWithoutTabAndLineBreak(char *sourceFilePath, char **pathToCopy) //not finished
00008 {
00009
00010     errno = 0;
00011     getFileName(sourceFilePath, sourceFileName);
00012     getFileExtension(sourceFilePath, sourceFileExtension);
00013
00014     FILE *sourceFile = fopen(sourceFilePath, "r");
00015
00016     if (sourceFile == NULL)
00017     {
00018         fprintf(stderr, "Error :%s\n", strerror(errno));
00019         return NULL;
00020     }
00021     rewind(sourceFile);
00022     char *copiedName = NULL;
00023     if (pathToCopy == NULL)
00024     {
00025         copiedName = strcat(strcat(sourceFileName, "_copied"), sourceFileExtension); //modify here
00026     }
00027     else
00028     {
00029         copiedName = *pathToCopy;
00030     }
00031
00032     FILE *copiedFile = fopen(copiedName, "w");
00033     if (copiedFile == NULL)
00034     {
00035         fprintf(stderr, "Error :%s\n", strerror(errno));
```

```

00036         fclose(sourceFile);
00037         return NULL;
00038     }
00039     rewind(copiedFile);
00040
00041     while(fgetc(sourceFile) != EOF)
00042     {
00043         fseek(sourceFile, -1, SEEK_CUR);
00044         if (fgetc(sourceFile) != '\n')
00045         {
00046             fseek(sourceFile, -1, SEEK_CUR);
00047             if (fgetc(sourceFile) != '\t')
00048             {
00049                 fseek(sourceFile, -1, SEEK_CUR);
00050                 fputc(fgetc(sourceFile), copiedFile);
00051             }
00052         }
00053     }
00054     char *returnedName = NULL;
00055     int i = 0;
00056     while(sourceFileName[i] != '\0')
00057     {
00058         *(returnedName + i) = sourceFileName[i];
00059         i++;
00060     }
00061     *(returnedName + i) = '\0';
00062     fclose(copiedFile);
00063     fclose(sourceFile);
00064     return returnedName;
00065 }
00066
00067 SHARED void fgetFileExtension(const char* const sourceFilePath, char *extension)
00068 {
00069     if (strlen(sourceFilePath) > MAX_FEXT_SIZE + MAX_FPATH_SIZE + MAX_FNAME_SIZE)
00070     {
00071         fprintf(stderr, "\nError : Full path is too big\n");
00072         return;
00073     }
00074     int cpt = strlen(sourceFilePath);
00075     char pt = *(sourceFilePath + cpt);
00076
00077     while((pt != '.' && (cpt >= 0) && (pt != '/' && (pt != '\\'))
00078     {
00079         cpt--;
00080         if (cpt >= 0)
00081         {
00082             pt = *(sourceFilePath + cpt);
00083         }
00084         else break;
00085     }
00086     if (cpt < 0)
00087     {
00088         fprintf(stderr, "\nError : incorrect file path\n");
00089         return;
00090     }
00091     else if (pt == '/' || pt == '\\')
00092     {
00093         fprintf(stderr, "\nError : incorrect file path\n");
00094         return;
00095     }
00096     }
00097     else
00098     {
00099         char res[strlen(sourceFilePath)-cpt+1];
00100         for (size_t i = cpt; i < strlen(sourceFilePath); ++i)
00101         {
00102             res[i - cpt] = *(sourceFilePath + i);
00103         }
00104         res[strlen(sourceFilePath)-cpt] = '\0';
00105         for (size_t i = 0; i < strlen(res); ++i)
00106         {
00107             *(extension + i) = res[i];
00108         }
00109         *(extension + strlen(res)) = '\0';
00110     }
00111 }
00112 }
00113 }
00114
00115 SHARED void fgetFileName(const char* const sourceFilePath, char *fileName)
00116 {
00117     if (strlen(sourceFilePath) > MAX_FEXT_SIZE + MAX_FPATH_SIZE + MAX_FNAME_SIZE)
00118     {
00119         fprintf(stderr, "\nError : Full path is too big\n");
00120         return;
00121     }
00122     int cpt = strlen(sourceFilePath);

```

```

00123     char pt = *(sourceFilePath + cpt);
00124
00125     while(cpt >= 0)
00126     {
00127         cpt--;
00128         if (cpt>=0)
00129         {
00130             pt = *(sourceFilePath + cpt);
00131         }
00132         else break;
00133         if (pt == '/' || pt == '\\ || pt == '~')
00134         {
00135             break;
00136         }
00137     }
00138     cpt++;
00139     if (cpt < 0 || (size_t) cpt == strlen(sourceFilePath))
00140     {
00141         fprintf(stderr, "\nError : incorrect file path\n");
00142         return;
00143     }
00144     else
00145     {
00146         char res[strlen(sourceFilePath)-cpt+1];
00147         for (size_t i = cpt; i < strlen(sourceFilePath); ++i)
00148         {
00149             res[i - cpt] = *(sourceFilePath + i);
00150         }
00151         res[strlen(sourceFilePath)-cpt] = '\0';
00152         for (size_t i = 0; i < strlen(res); ++i)
00153         {
00154             *(fileName + i) = res[i];
00155         }
00156         *(fileName + strlen(res)) = '\0';
00157         cpt = strlen(fileName) - 1;
00158         char *tmp_recov = (char*) malloc((strlen(fileName)+10)*sizeof(char));
00159         int tmp_recov_char_num = strlen(fileName) + 1;
00160
00161         tmp_recov = strncpy(tmp_recov, fileName, tmp_recov_char_num);
00162         if (tmp_recov == NULL)
00163         {
00164             fprintf(stderr, "\nInternal problem into the lib\n");
00165             free(tmp_recov);
00166             return;
00167         }
00168         else
00169         {
00170             while(cpt >= 0 && fileName[cpt] != '.')
00171             {
00172                 fileName[cpt] = '\0';
00173                 cpt--;
00174             }
00175             if (cpt < 0)
00176             {
00177                 fileName = strncpy(fileName, tmp_recov, tmp_recov_char_num);
00178                 fileName[tmp_recov_char_num-1] = '\0';
00179             }
00180             else fileName[cpt] = '\0';
00181         }
00182         free(tmp_recov);
00183     }
00184 }
00185
00186 }
00187
00188 SHARED void fgetFilePath(const char* const sourceFilePath, char *filePath)
00189 {
00190     if (strlen(sourceFilePath) > MAX_FEXT_SIZE + MAX_FPATH_SIZE + MAX_FNAME_SIZE)
00191     {
00192         fprintf(stderr, "\nError : Full path is too big\n");
00193         return;
00194     }
00195     int cpt = strlen(sourceFilePath);
00196     char pt = *(sourceFilePath + cpt);
00197
00198     while(cpt >= 0)
00199     {
00200         cpt--;
00201         if (cpt>=0)
00202         {
00203             pt = *(sourceFilePath + cpt);
00204         }
00205         else break;
00206         if (pt == '/' || pt == '\\)
00207         {
00208             break;
00209         }

```

```

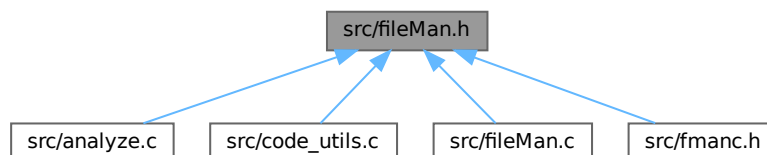
00210     }
00211
00212     if (cpt < 0)
00213     {
00214         return;
00215     }
00216
00217     else
00218     {
00219         char res[cpt+1];
00220         for (size_t i = 0; i < (size_t)cpt; ++i) // cpt >= 0 anyway so we can actually do this cast to
00221             avoid this useless gcc -Wextra warning
00222         {
00223             res[i] = *(sourceFilePath + i);
00224         }
00225         res[cpt + 1] = '\0';
00226         for (size_t i = 0; i < strlen(res); ++i)
00227         {
00228             *(filePath + i) = res[i];
00229         }
00230         if (pt == '/')
00231         {
00232             *(filePath + strlen(res)-1) = '/';
00233         }
00234         else
00235         {
00236             *(filePath + strlen(res)-1) = '\\';
00237         }
00238         *(filePath + strlen(res)) = '\0';
00239     }
00240 }

```

## 6.12 src/fileMan.h File Reference

This header contains macro definitions and function declarations that are written in [this file](#).

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



### Macros

- `#define getFileExtension(sourceFilePath, extension) char extension[MAX_FEXT_SIZE] = ""; getFileExtension(sourceFilePath, extension)`  
*Gives you the file extension.*
- `#define getFileName(sourceFilePath, name) char name[MAX_FNAME_SIZE] = ""; getFileName(sourceFilePath, name)`  
*Gives you the file name.*
- `#define getFilePath(sourceFilePath, path) char path[MAX_FPATH_SIZE] = ""; getFilePath(sourceFilePath, path)`  
*Gives you the file path (without name and extension).*
- `#define MAX\_FEXT\_SIZE 50`
- `#define MAX\_FNAME\_SIZE 256`
- `#define MAX\_FPATH\_SIZE 512`
- `#define SHARED`  
*Useful to choose how to use the lib on Windows systems.*

## Functions

- int [copyFileWithoutStrings](#) (const unsigned int argc, char \*filePath,...)
- char \* [copyFileWithoutTabAndLineBreak](#) (char \*sourceFilePath, char \*\*pathToCopy)  
*Copy a file without tab and line break.*
- void [fgetFileExtension](#) (const char \*const sourceFileName, char \*extension)
- void [fgetFileName](#) (const char \*const sourceFilePath, char \*fileName)
- void [fgetFilePath](#) (const char \*const sourceFilePath, char \*filePath)

### 6.12.1 Detailed Description

This header contains macro definitions and function declarations that are written in [this file](#).

#### Author

Axel PASCON (a.k.a. brvtalcake)

#### Date

2022

These functions are made to operate simple operation on files or file names, when there is no need to analyze something like occurrences,

#### Author

Axel PASCON (a.k.a. brvtalcake)

#### Date

2022

Definition in file [fileMan.h](#).

### 6.12.2 Macro Definition Documentation

#### 6.12.2.1 SHARED `#define SHARED`

Useful to choose how to use the lib on Windows systems.

#### Author

Axel PASCON (a.k.a. brvtalcake)

#### Date

2022

For more informations, please see [the definition of the SHARED macro](#) in the main header

Definition at line 71 of file [fileMan.h](#).



### 6.12.3 Function Documentation

**6.12.3.1 copyFileWithoutStrings()** `int copyFileWithoutStrings (`  
    `const unsigned int argc,`  
    `char * filePath,`  
    `... )`

**6.12.3.2 fgetFileExtension()** `void fgetFileExtension (`  
    `const char *const sourceFileName,`  
    `char * extension )`

Definition at line 67 of file [fileMan.c](#).

References [MAX\\_FEXT\\_SIZE](#), [MAX\\_FNAME\\_SIZE](#), and [MAX\\_FPATH\\_SIZE](#).

**6.12.3.3 fgetFileName()** `void fgetFileName (`  
    `const char *const sourceFilePath,`  
    `char * fileName )`

Definition at line 115 of file [fileMan.c](#).

References [MAX\\_FEXT\\_SIZE](#), [MAX\\_FNAME\\_SIZE](#), and [MAX\\_FPATH\\_SIZE](#).

**6.12.3.4 fgetFilePath()** `void fgetFilePath (`  
    `const char *const sourceFilePath,`  
    `char * filePath )`

Definition at line 188 of file [fileMan.c](#).

References [MAX\\_FEXT\\_SIZE](#), [MAX\\_FNAME\\_SIZE](#), and [MAX\\_FPATH\\_SIZE](#).

## 6.13 fileMan.h

[Go to the documentation of this file.](#)

```

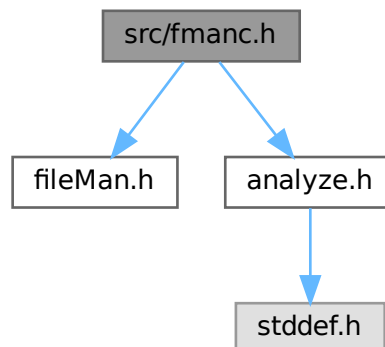
00001
00046 #ifndef FILEMAN_H
00047 #define FILEMAN_H
00048
00057 # if (defined(_WIN32) || defined(WIN32))
00058 /***** "D STATIC" *****/
00059 #   if defined(STATIC)
00060 #       define SHARED
00061 /***** "D BUILD_DLL" *****/
00062 #   else
00063 #       if defined(BUILD_DLL)
00064 #           define SHARED __declspec(dllexport)
00065 #       else
00066 #           define SHARED __declspec(dllimport)
00067 #       endif
00068 #   endif
00069 /***** DEFAULT *****/
00070 #   else
00071 #       define SHARED
00072 #   endif
00073
00090 #ifndef MAX_FEXT_SIZE
00091 #define MAX_FEXT_SIZE 50
00092 #endif
00093
00101 #ifndef MAX_FNAME_SIZE
00102 #define MAX_FNAME_SIZE 256
00103 #endif
00104
00112 #ifndef MAX_FPATH_SIZE
00113 #define MAX_FPATH_SIZE 512
00114 #endif
00115
00116
00136 #ifndef getFileExtension
00137 #define getFileExtension(sourceFilePath, extension) char extension[MAX_FEXT_SIZE] = "";
00138 #define fgetFileExtension(sourceFilePath, extension)
00139 #endif
00140
00152 #ifndef getFileName
00153 #define getFileName(sourceFilePath, name) char name[MAX_FNAME_SIZE] = ""; fgetFileName(sourceFilePath,
00154 name)
00155 #endif
00156
00168 #ifndef getFilePath
00169 #define getFilePath(sourceFilePath, path) char path[MAX_FPATH_SIZE] = ""; fgetFilePath(sourceFilePath,
00170 path)
00171 #endif
00172
00197 SHARED char *copyFileWithoutTabAndLineBreak(char *sourceFilePath, char **pathToCopy); // copied file
00198 will be named like <sourceFile name>_copied
00198 SHARED int copyFileWithoutStrings(const unsigned int argc, char *filePath, ...); // to do
00199 SHARED void fgetFileExtension(const char* const sourceFileName, char *extension);
00200 SHARED void fgetFileName(const char* const sourceFilePath, char *fileName);
00201 SHARED void fgetFilePath(const char* const sourceFilePath, char *filePath);
00202
00203
00204 #endif

```

## 6.14 src/fmanc.h File Reference

This is the main header of the lib, where all of the headers are included.

Include dependency graph for fmanc.h:



## Macros

- `#define` [SHARED](#)  
*Useful to choose how to use the lib on Windows systems.*
- `#define` [USE\\_CODE\\_UTILS](#)  
*This macro provides access to more functions.*

### 6.14.1 Detailed Description

This is the main header of the lib, where all of the headers are included.

#### Author

Axel PASCON (a.k.a. brvtalcake)

#### Date

2022

If you don't want to have troubles, just include this one instead of including the others one by one.

Definition in file [fmanc.h](#).

## 6.15 fmanc.h

[Go to the documentation of this file.](#)

```

00001
00026 #ifndef FMANC_H
00027 #define FMANC_H
00028
00064 # if (defined(_WIN32) || defined(WIN32))
00065 /***** "D STATIC" *****/
00066 #   if defined(STATIC)
00067 #       define SHARED
00068 /***** "D BUILD_DLL" *****/
00069 #   else
00070 #       if defined(BUILD_DLL)
00071 #           define SHARED __declspec(dllexport)
00072 #       else
00073 #           define SHARED __declspec(dllimport)
00074 #       endif
00075 #   endif
00076 /***** DEFAULT *****/
00077 #   else
00078 #       define SHARED
00079 #   endif // Definition of SHARED macro
00080
00081
00082 #include "fileMan.h"
00083 #include "analyze.h"
00084
00101 #define USE_CODE_UTILS // just to make doxygen generate the doc
00102 #undef USE_CODE_UTILS
00103
00104 #if defined(USE_CODE_UTILS)
00105     #include "code_utils.h"
00106     #include "../third_party/lex_yy.h"
00107 #endif // USE_CODE_UTILS
00108
00109
00110 #endif // fmanc.h

```

## 6.16 src/third\_party/lex\_yy.h File Reference

### Macros

- #define [SHARED](#)

### Functions

- int [deleteCStyleComments](#) (char \*filePath)

### 6.16.1 Macro Definition Documentation

#### 6.16.1.1 SHARED #define SHARED

Definition at line 18 of file [lex\\_yy.h](#).

### 6.16.2 Function Documentation

**6.16.2.1 deleteCStyleComments()** int deleteCStyleComments (  
char \* *filePath* )

## 6.17 lex.yy.h

[Go to the documentation of this file.](#)

```
00001 #ifndef LEX_YY_H
00002 #define LEX_YY_H
00003
00004 # if (defined(_WIN32) || defined(WIN32))
00005 /***** -D STATIC *****/
00006 #   if defined(STATIC)
00007 #       define SHARED
00008 /***** -D BUILD_DLL *****/
00009 #   else
00010 #       if defined(BUILD_DLL)
00011 #           define SHARED __declspec(dllexport)
00012 #       else
00013 #           define SHARED __declspec(dllimport)
00014 #       endif
00015 #   endif
00016 /***** DEFAULT *****/
00017 # else
00018 #   define SHARED
00019 # endif
00020
00021 SHARED int deleteCStyleComments(char *filePath);
00022
00023
00024 #endif
```



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