FManC

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src/general/utils/FMC_globals.h . . . 190
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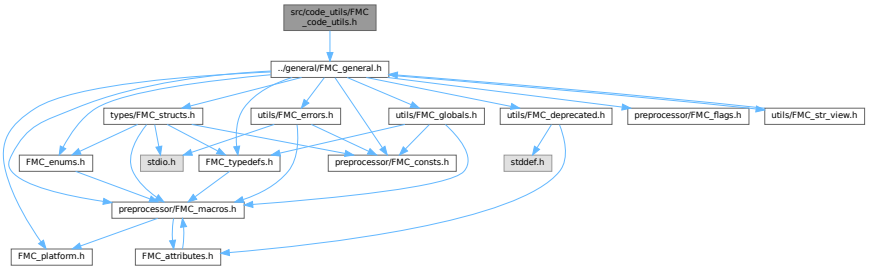
Chapter 3

File Documentation

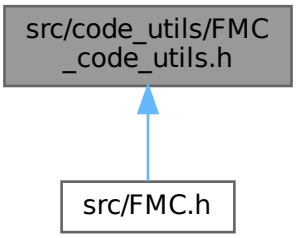
3.1 docs/documentation_pages/main_page.dox File Reference

3.2 src/code_utils/FMC_code_utils.h File Reference

Include dependency graph for FMC_code_utils.h:



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



Macros

- #define FMC_CODE_UTILS_H

3.2.1 Macro Definition Documentation

3.2.1.1 FMC_CODE_UTILS_H

```
#define FMC_CODE_UTILS_H
```

Definition at line 30 of file FMC_code_utils.h.

3.3 FMC_code_utils.h

Go to the documentation of this file.

```
00001 /*
00002
00003 MIT License
00004
00005 Copyright (c) 2022 Axel PASCON
00006
00007 Permission is hereby granted, free of charge, to any person obtaining a copy
00008 of this software and associated documentation files (the "Software"), to deal
00009 in the Software without restriction, including without limitation the rights
00010 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
00011 copies of the Software, and to permit persons to whom the Software is
00012 furnished to do so, subject to the following conditions:
00013
00014 The above copyright notice and this permission notice shall be included in all
00015 copies or substantial portions of the Software.
00016
00017 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
00018 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
00019 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
00020 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
00021 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
00027 #pragma once
00028
00029 #ifndef FMC_CODE_UTILS_H
00030 #define FMC_CODE_UTILS_H
00031
00032 #include "../general/FMC_general.h"
00033
00034 #endif // FMC_CODE_UTILS_H
```

3.4 src/code_utils/FMC_codeUtils.c File Reference

3.5 FMC_codeUtils.c

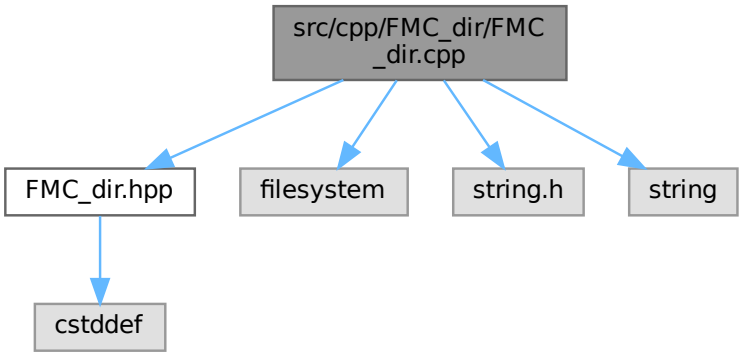
Go to the documentation of this file.

```
00001 /*
00002
00003 MIT License
00004
```

```
00005 Copyright (c) 2022 Axel PASCON
00006
00007 Permission is hereby granted, free of charge, to any person obtaining a copy
00008 of this software and associated documentation files (the "Software"), to deal
00009 in the Software without restriction, including without limitation the rights
00010 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
00011 copies of the Software, and to permit persons to whom the Software is
00012 furnished to do so, subject to the following conditions:
00013
00014 The above copyright notice and this permission notice shall be included in all
00015 copies or substantial portions of the Software.
00016
00017 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
00018 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
00019 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
00020 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
00021 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
```

3.6 src/cpp/FMC_dir/FMC_dir.cpp File Reference

Include dependency graph for FMC_dir.cpp:



Functions

- int FMC_dirExists_ (const char *path)
- char * FMC_getAbsolutePath_ (char *path, char *buffer, const size_t size)
- char * FMC_getCurrentPath_ (char *path, const size_t size)
- int FMC_isBlock_ (const char *path)
- int FMC_isCharFile_ (const char *path)
- int FMC_isDir_ (const char *path)
- int FMC_isEmpty_ (const char *path)
- int FMC_isFIFO_ (const char *path)
- int FMC_isOther_ (const char *path)
- int FMC_isRegFile_ (const char *path)
- int FMC_isSocket_ (const char *path)
- int FMC_isSymLink_ (const char *path)

3.6.1 Function Documentation

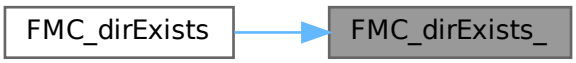
3.6.1.1 FMC_dirExists_()

```
int FMC_dirExists_ (
            const char * path )
```

Definition at line 38 of file FMC_dir.cpp.

Referenced by FMC_dirExists().

Here is the caller graph for this function:



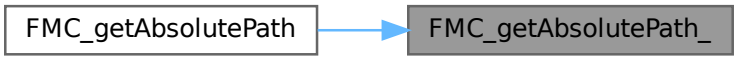
3.6.1.2 FMC_getAbsolutePath_()

```
char * FMC_getAbsolutePath_ (
            char * path,
            char * buffer,
            const size_t size )
```

Definition at line 157 of file FMC_dir.cpp.

Referenced by FMC_getAbsolutePath().

Here is the caller graph for this function:



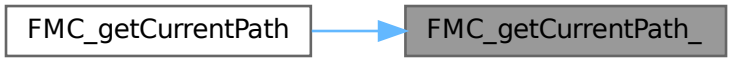
3.6.1.3 FMC_getCurrentPath_()

```
char * FMC_getCurrentPath_ (
            char * path,
            const size_t size )
```

Definition at line 142 of file FMC_dir.cpp.

Referenced by FMC_getCurrentPath().

Here is the caller graph for this function:



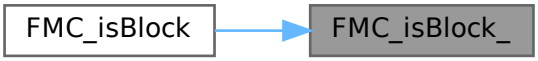
3.6.1.4 FMC_isBlock_()

```
int FMC_isBlock_ (
            const char * path )
```

Definition at line 70 of file FMC_dir.cpp.

Referenced by FMC_isBlock().

Here is the caller graph for this function:



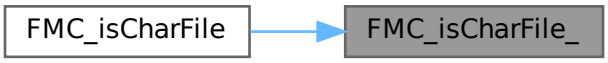
3.6.1.5 FMC_isCharFile_()

```
int FMC_isCharFile_ (
            const char * path )
```

Definition at line 79 of file FMC_dir.cpp.

Referenced by FMC_isCharFile().

Here is the caller graph for this function:



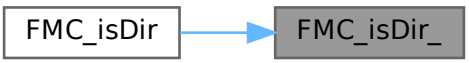
3.6.1.6 FMC_isDir_()

```
int FMC_isDir_ (
            const char * path )
```

Definition at line 43 of file FMC_dir.cpp.

Referenced by FMC_isDir().

Here is the caller graph for this function:



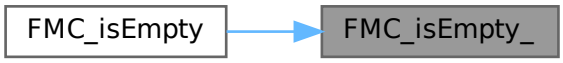
3.6.1.7 FMC_isEmpty_()

```
int FMC_isEmpty_ (
            const char * path )
```

Definition at line 128 of file FMC_dir.cpp.

Referenced by FMC_isEmpty().

Here is the caller graph for this function:



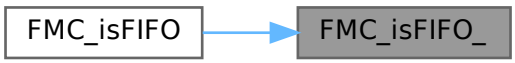
3.6.1.8 FMC_isFIFO_()

```
int FMC_isFIFO_ (
            const char * path )
```

Definition at line 97 of file FMC_dir.cpp.

Referenced by FMC_isFIFO().

Here is the caller graph for this function:



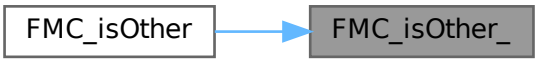
3.6.1.9 FMC_isOther_()

```
int FMC_isOther_ (
            const char * path )
```

Definition at line 106 of file FMC_dir.cpp.

Referenced by FMC_isOther().

Here is the caller graph for this function:



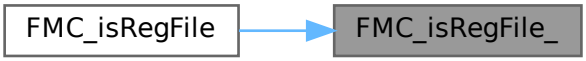
3.6.1.10 FMC_isRegFile_()

```
int FMC_isRegFile_ (
            const char * path )
```

Definition at line 52 of file FMC_dir.cpp.

Referenced by FMC_isRegFile().

Here is the caller graph for this function:



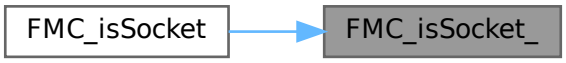
3.6.1.11 FMC_isSocket_()

```
int FMC_isSocket_ (
            const char * path )
```

Definition at line 88 of file FMC_dir.cpp.

Referenced by FMC_isSocket().

Here is the caller graph for this function:



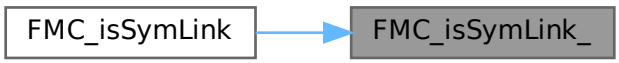
3.6.1.12 FMC_isSymLink_()

```
int FMC_isSymLink_ (
            const char * path )
```

Definition at line 61 of file FMC_dir.cpp.

Referenced by FMC_isSymLink().

Here is the caller graph for this function:



3.7 FMC_dir.cpp

Go to the documentation of this file.

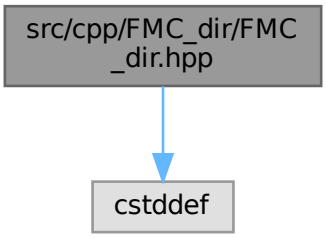
```
00001 /*
00002
00003 MIT License
00004
00005 Copyright (c) 2022-2023 Axel PASCON
00006
00007 Permission is hereby granted, free of charge, to any person obtaining a copy
00008 of this software and associated documentation files (the "Software"), to deal
00009 in the Software without restriction, including without limitation the rights
00010 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
00011 copies of the Software, and to permit persons to whom the Software is
00012 furnished to do so, subject to the following conditions:
00013
00014 The above copyright notice and this permission notice shall be included in all
00015 copies or substantial portions of the Software.
00016
00017 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
00018 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
00019 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
00020 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
00021 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
00027 #if __cplusplus < 201703L
00028     #error "The contents of <filesystem> are available only with C++17 or later."
00029 #endif
00030
00031 #include "FMC_dir.hpp"
00032 #include <filesystem>
00033 #include <string.h>
00034 #include <string>
00035
00036 namespace fs = std::filesystem;
00037
00038 int FMC_dirExists_(const char *path)
00039 {
00040     return fs::exists(path);
00041 }
00042
00043 int FMC_isDir_(const char *path)
00044 {
00045     if(fs::exists(path))
00046     {
00047         return fs::is_directory(path);
00048     }
00049     else return -1;
00050 }
00051
00052 int FMC_isRegFile_(const char *path)
00053 {
00054     if(fs::exists(path))
00055     {
00056         return fs::is_regular_file(path);
00057     }
00058     else return -1;
00059 }
00060
00061 int FMC_isSymLink_(const char *path)
00062 {
00063     if (fs::exists(path))
00064     {
00065         return fs::is_symlink(path);
00066     }
00067     else return -1;
00068 }
00069
00070 int FMC_isBlock_(const char* path)
00071 {
00072     if (fs::exists(path))
00073     {
00074         return fs::is_block_file(path);
00075     }
00076     else return -1;
00077 }
00078
00079 int FMC_isCharFile_(const char* path)
00080 {
00081     if (fs::exists(path))
00082     {
```

```
00083         return fs::is_character_file(path);
00084     }
00085     else return -1;
00086 }
00087
00088 int FMC_isSocket_(const char* path)
00089 {
00090     if (fs::exists(path))
00091     {
00092         return fs::is_socket(path);
00093     }
00094     else return -1;
00095 }
00096
00097 int FMC_isFIFO_(const char* path)
00098 {
00099     if (fs::exists(path))
00100     {
00101         return fs::is_fifo(path);
00102     }
00103     else return -1;
00104 }
00105
00106 int FMC_isOther_(const char* path)
00107 {
00108     if (fs::exists(path))
00109     {
00110         return fs::is_other(path);
00111     }
00112     else return -1;
00113 }
00114
00115 /*
00116 char *FMC_readSymlink_(char *path_sym, const char * path, const int size)
00117 {
00118     memset(path_sym, 0, size);
00119     fs::path p(path);
00120     if (is_symlink(p) && exists(p) && size) >= fs::read_symlink(p).string().size()) // to be changed
00121     {
00122         fs::path target = fs::read_symlink(p);
00123         strcpy(path_sym, target.c_str());
00124     }
00125     return path_sym;
00126 } */
00127
00128 int FMC_isEmpty_(const char *path)
00129 {
00130     if(fs::exists(path))
00131     {
00132         return fs::is_empty(path);
00133     }
00134     else return -1;
00135 }
00136
00137 /*int FMC_createDir_(const char *path)
00138 {
00139     return fs::create_directory(path);
00140 }*/
00141
00142 char *FMC_getCurrentPath_(char *path, const size_t size)
00143 {
00144     std::string s = fs::current_path().string();
00145     if (size >= s.length()+1)
00146     {
00147         memset(path, 0, size);
00148         strncpy(path, fs::current_path().string().c_str(), fs::current_path().string().length());
00149         if (strrchr(path, '/') != NULL) strcat(path, "/");
00150         else if (strrchr(path, '\\') != NULL) strcat(path, "\\");
00151         else return NULL;
00152         return path;
00153     }
00154     else return NULL;
00155 }
00156
00157 char *FMC_getAbsolutePath_(char *path, char *buffer, const size_t size)
00158 {
00159
00160     if(fs::exists(path) && size > fs::absolute(path).string().length())
00161     {
00162         memset(buffer, 0, size);
00163         strncpy(buffer, fs::absolute(path).string().c_str(), fs::absolute(path).string().length());
00164         if (strrchr(path, '/') != NULL) strcat(buffer, "/");
00165         else if (strrchr(path, '\\') != NULL) strcat(buffer, "\\");
00166         else return NULL;
00167         return buffer;
00168     }
00169     else return NULL;
```

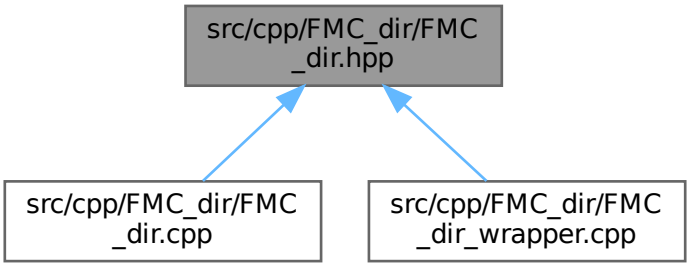
```
00170 }
```

3.8 src/cpp/FMC_dir/FMC_dir.hpp File Reference

Include dependency graph for FMC_dir.hpp:



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



Functions

- int FMC_dirExists_ (const char *path)
- char * FMC_getAbsolutePath_ (char *path, char *buffer, const size_t size)
- char * FMC_getCurrentPath_ (char *path, const size_t size)
- int FMC_isBlock_ (const char *path)
- int FMC_isCharFile_ (const char *path)
- int FMC_isDir_ (const char *path)
- int FMC_isEmpty_ (const char *path)
- int FMC_isFIFO_ (const char *path)
- int FMC_isOther_ (const char *path)
- int FMC_isRegFile_ (const char *path)
- int FMC_isSocket_ (const char *path)
- int FMC_isSymLink_ (const char *path)

3.8.1 Function Documentation

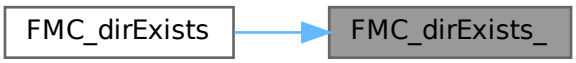
3.8.1.1 FMC_dirExists_()

```
int FMC_dirExists_ (
            const char * path )
```

Definition at line 38 of file FMC_dir.cpp.

Referenced by FMC_dirExists().

Here is the caller graph for this function:



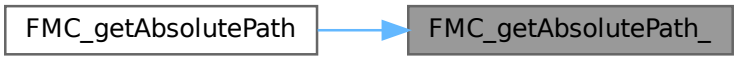
3.8.1.2 FMC_getAbsolutePath_()

```
char * FMC_getAbsolutePath_ (
            char * path,
            char * buffer,
            const size_t size )
```

Definition at line 157 of file FMC_dir.cpp.

Referenced by FMC_getAbsolutePath().

Here is the caller graph for this function:



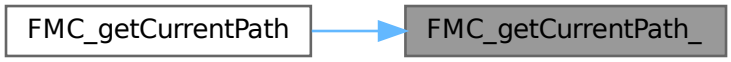
3.8.1.3 FMC_getCurrentPath_()

```
char * FMC_getCurrentPath_ (
            char * path,
            const size_t size )
```

Definition at line 142 of file FMC_dir.cpp.

Referenced by FMC_getCurrentPath().

Here is the caller graph for this function:



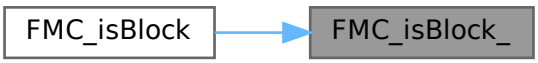
3.8.1.4 FMC_isBlock_()

```
int FMC_isBlock_ (
            const char * path )
```

Definition at line 70 of file FMC_dir.cpp.

Referenced by FMC_isBlock().

Here is the caller graph for this function:



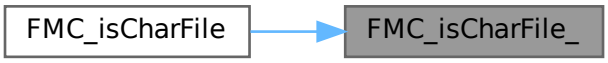
3.8.1.5 FMC_isCharFile_()

```
int FMC_isCharFile_ (
            const char * path )
```

Definition at line 79 of file FMC_dir.cpp.

Referenced by FMC_isCharFile().

Here is the caller graph for this function:



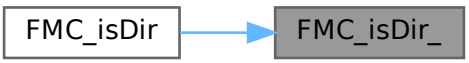
3.8.1.6 FMC_isDir_()

```
int FMC_isDir_ (
            const char * path )
```

Definition at line 43 of file FMC_dir.cpp.

Referenced by FMC_isDir().

Here is the caller graph for this function:



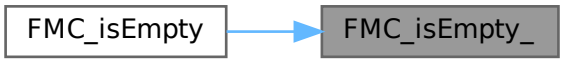
3.8.1.7 FMC_isEmpty_()

```
int FMC_isEmpty_ (
            const char * path )
```

Definition at line 128 of file FMC_dir.cpp.

Referenced by FMC_isEmpty().

Here is the caller graph for this function:



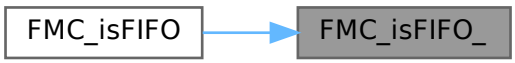
3.8.1.8 FMC_isFIFO_()

```
int FMC_isFIFO_ (
            const char * path )
```

Definition at line 97 of file FMC_dir.cpp.

Referenced by FMC_isFIFO().

Here is the caller graph for this function:



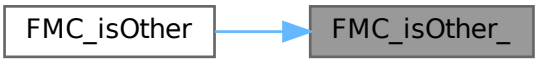
3.8.1.9 FMC_isOther_()

```
int FMC_isOther_ (
            const char * path )
```

Definition at line 106 of file FMC_dir.cpp.

Referenced by FMC_isOther().

Here is the caller graph for this function:



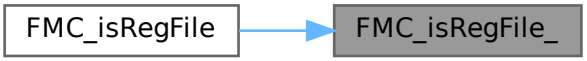
3.8.1.10 FMC_isRegFile_()

```
int FMC_isRegFile_ (
            const char * path )
```

Definition at line 52 of file FMC_dir.cpp.

Referenced by FMC_isRegFile().

Here is the caller graph for this function:



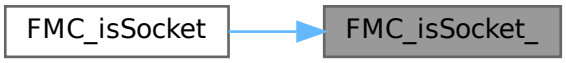
3.8.1.11 FMC_isSocket_()

```
int FMC_isSocket_ (
            const char * path )
```

Definition at line 88 of file FMC_dir.cpp.

Referenced by FMC_isSocket().

Here is the caller graph for this function:



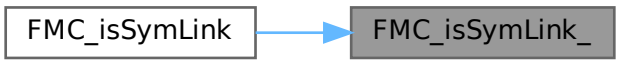
3.8.1.12 FMC_isSymLink_()

```
int FMC_isSymLink_ (
            const char * path )
```

Definition at line 61 of file FMC_dir.cpp.

Referenced by FMC_isSymLink().

Here is the caller graph for this function:



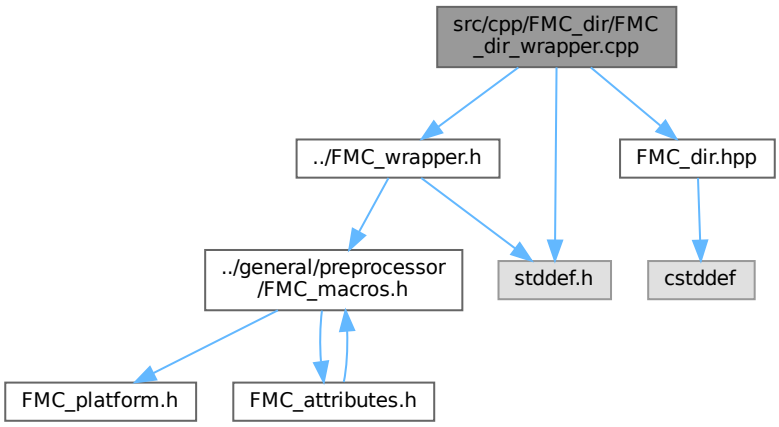
3.9 FMC_dir.hpp

Go to the documentation of this file.

```
00001 /*
00002
00003 MIT License
00004
00005 Copyright (c) 2022-2023 Axel PASCON
00006
00007 Permission is hereby granted, free of charge, to any person obtaining a copy
00008 of this software and associated documentation files (the "Software"), to deal
00009 in the Software without restriction, including without limitation the rights
00010 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
00011 copies of the Software, and to permit persons to whom the Software is
00012 furnished to do so, subject to the following conditions:
00013
00014 The above copyright notice and this permission notice shall be included in all
00015 copies or substantial portions of the Software.
00016
00017 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
00018 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
00019 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
00020 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
00021 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
00027 #ifndef FMC_DIR_HPP
00028 #define FMC_DIR_HPP
00029
00030 #include <cstddef>
00031
00032 int FMC_dirExists_(const char *path);
00033 int FMC_isDir_(const char *path);
00034 int FMC_isRegFile_(const char *path);
00035 int FMC_isSymLink_(const char *path);
00036 int FMC_isBlock_(const char* path);
00037 int FMC_isCharFile_(const char* path);
00038 int FMC_isSocket_(const char* path);
00039 int FMC_isFIFO_(const char* path);
00040 int FMC_isOther_(const char* path);
00041 //char *FMC_readSymlink_(char *path_sym, const char * path);
00042 int FMC_isEmpty_(const char *path);
00043 //int FMC_createDir_(const char *path);
00044 char *FMC_getCurrentPath_(char *path, const size_t size);
00045 char *FMC_getAbsolutePath_(char *path, char *buffer, const size_t size);
00046
00047 #endif // FMC_DIR_HPP
```

3.10 src/cpp/FMC_dir/FMC_dir_wrapper.cpp File Reference

Include dependency graph for FMC_dir_wrapper.cpp:



Functions

- int FMC_dirExists (const char ∗path)

  Checks if a directory exists.
- char ∗ FMC_getAbsolutePath (char ∗path, char ∗buffer, const size_t size)

  This function converts a relative path into an absolute one.
- char ∗ FMC_getCurrentPath (char ∗path, const size_t size)

  This function is equivalent to $PWD in bash.
- int FMC_isBlock (const char ∗path)

  Checks if a path is a block device.
- int FMC_isCharFile (const char ∗path)

  Checks if a path is a character device.
- int FMC_isDir (const char ∗path)

  Checks if a path is a directory.
- int FMC_isEmpty (const char ∗path)

  Checks if a directory is empty.
- int FMC_isFIFO (const char ∗path)

  Checks if a path is a FIFO.
- int FMC_isOther (const char ∗path)

  Checks if a path is of an unknown type.
- int FMC_isRegFile (const char ∗path)

  Checks if a path is a regular file.
- int FMC_isSocket (const char ∗path)

  Checks if a path is a socket.
- int FMC_isSymLink (const char ∗path)

  Checks if a path is a symbolic link.

3.10.1 Function Documentation

3.10.1.1 FMC_dirExists()

```
int FMC_dirExists (
            const char * path )
```

Checks if a directory exists.

Author

Axel PASCON

Date

2023

This function is a wrapper around the C++ filesystem library assciated function.

Parameters

in	*path*	The path whose existence is to be checked.

Returns

An integer value.

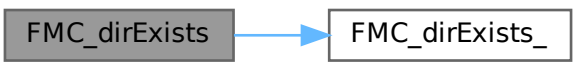
Return values

1	if the directory exists.
0	if the directory does not exist.

Definition at line 35 of file FMC_dir_wrapper.cpp.

References FMC_dirExists_().

Here is the call graph for this function:



3.10.1.2 FMC_getAbsolutePath()

```
char * FMC_getAbsolutePath (
            char * path,
            char * buffer,
            const size_t size )
```

This function converts a relative path into an absolute one.

Author

Axel PASCON

Date

2023

This function is a wrapper around the C++ filesystem library assciated function.

Parameters

in	*path*	The path to convert.
out	*buffer*	The memory buffer to store the absolute path.
in	*size*	The size of the memory buffer.

Returns

A pointer to the memory buffer.

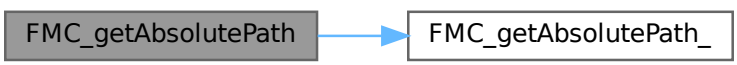
Return values

NULL	if an error occured.
buffer	The pointer to the buffer after the call if the function succeeded.

Definition at line 92 of file FMC_dir_wrapper.cpp.

References FMC_getAbsolutePath_().

Here is the call graph for this function:



3.10.1.3 FMC_getCurrentPath()

```
char * FMC_getCurrentPath (
            char * path,
            const size_t size )
```

This function is equivalent to $PWD in bash.

Author

Axel PASCON

Date

2023

This function is a wrapper around the C++ filesystem library assciated function.

Parameters

out	*path*	The memory buffer to store the current path.
in	*size*	The size of the memory buffer.

Returns

A pointer to the memory buffer.

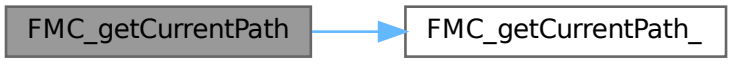
Return values

NULL	if an error occured.
path	The pointer to path after the call if the function succeeded.

Definition at line 87 of file FMC_dir_wrapper.cpp.

References FMC_getCurrentPath_().

Here is the call graph for this function:



3.10.1.4 FMC_isBlock()

```
int FMC_isBlock (
            const char * path )
```

Checks if a path is a block device.

Author

Axel PASCON

Date

2023

This function is a wrapper around the C++ filesystem library assciated function.

Parameters

in	*path*	The path to check.

Returns

An integer value.

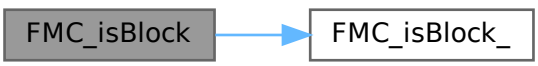
Return values

1	if the path is a block device.
0	if the path is not a block device.
-1	if an error occured.

Definition at line 55 of file FMC_dir_wrapper.cpp.

References FMC_isBlock_().

Here is the call graph for this function:



3.10.1.5 FMC_isCharFile()

```
int FMC_isCharFile (
            const char * path )
```

Checks if a path is a character device.

Author

Axel PASCON

Date

2023

This function is a wrapper around the C++ filesystem library assciated function.

Parameters

in	*path*	The path to check.

Returns

An integer value.

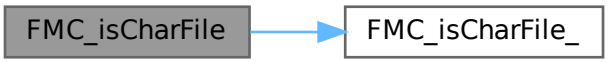
Return values

1	if the path is a character device.
0	if the path is not a character device.
-1	if an error occured.

Definition at line 60 of file FMC_dir_wrapper.cpp.

References FMC_isCharFile_().

Here is the call graph for this function:



3.10.1.6 FMC_isDir()

```
int FMC_isDir (
            const char * path )
```

Checks if a path is a directory.

Author

Axel PASCON

Date

2023

This function is a wrapper around the C++ filesystem library assciated function.

Parameters

in	*path*	The path to check.

Returns

An integer value.

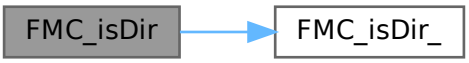
Return values

1	if the path is a directory.
0	if the path is not a directory.
-1	if an error occured.

Definition at line 40 of file FMC_dir_wrapper.cpp.

References FMC_isDir_().

Here is the call graph for this function:



3.10.1.7 FMC_isEmpty()

```
int FMC_isEmpty (
            const char * path )
```

Checks if a directory is empty.

Author

Axel PASCON

Date

2023

This function is a wrapper around the C++ filesystem library assciated function.

Parameters

in	*path*	The path to check.

Returns

An integer value.

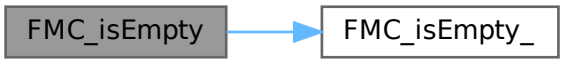
Return values

1	if the directory is empty.
0	if the directory is not empty.
-1	if an error occured.

Definition at line 80 of file FMC_dir_wrapper.cpp.

References FMC_isEmpty_().

Here is the call graph for this function:



3.10.1.8 FMC_isFIFO()

```
int FMC_isFIFO (
            const char * path )
```

Checks if a path is a FIFO.

Author

Axel PASCON

Date

2023

This function is a wrapper around the C++ filesystem library assciated function.

Parameters

in	*path*	The path to check.

Returns

An integer value.

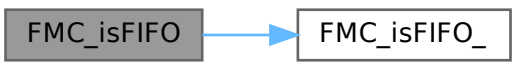
Return values

1	if the path is a FIFO.
0	if the path is not a FIFO.
-1	if an error occured.

Definition at line 70 of file FMC_dir_wrapper.cpp.

References FMC_isFIFO_().

Here is the call graph for this function:



3.10.1.9 FMC_isOther()

```
int FMC_isOther (
            const char * path )
```

Checks if a path is of an unknown type.

Author

Axel PASCON

Date

2023

This function is a wrapper around the C++ filesystem library assciated function.

Parameters

in	*path*	The path to check.

Returns

An integer value.

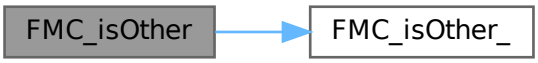
Return values

1	if the path is of an unknown type.
0	if the path is not of an unknown type.
-1	if an error occured.

Definition at line 75 of file FMC_dir_wrapper.cpp.

References FMC_isOther_().

Here is the call graph for this function:



3.10.1.10 FMC_isRegFile()

```
int FMC_isRegFile (
            const char * path )
```

Checks if a path is a regular file.

Author

Axel PASCON

Date

2023

This function is a wrapper around the C++ filesystem library assciated function.

Parameters

in	*path*	The path to check.

Returns

An integer value.

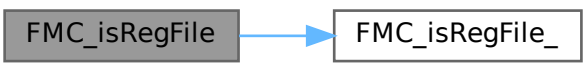
Return values

1	if the path is a regular file.
0	if the path is not a regular file.
-1	if an error occured.

Definition at line 45 of file FMC_dir_wrapper.cpp.

References FMC_isRegFile_().

Here is the call graph for this function:



3.10.1.11 FMC_isSocket()

```
int FMC_isSocket (
            const char * path )
```

Checks if a path is a socket.

Author

Axel PASCON

Date

2023

This function is a wrapper around the C++ filesystem library assciated function.

Parameters

in	*path*	The path to check.

Returns

An integer value.

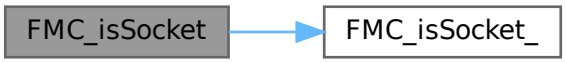
Return values

1	if the path is a socket.
0	if the path is not a socket.
-1	if an error occured.

Definition at line 65 of file FMC_dir_wrapper.cpp.

References FMC_isSocket_().

Here is the call graph for this function:



3.10.1.12 FMC_isSymLink()

```
int FMC_isSymLink (
            const char * path )
```

Checks if a path is a symbolic link.

Author

Axel PASCON

Date

2023

This function is a wrapper around the C++ filesystem library assciated function.

Parameters

in	*path*	The path to check.

Returns

An integer value.

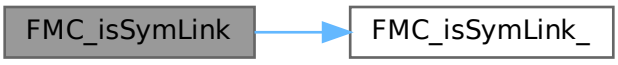
Return values

1	if the path is a symbolic link.
0	if the path is not a symbolic link.
-1	if an error occured.

Definition at line 50 of file FMC_dir_wrapper.cpp.

References FMC_isSymLink_().

Here is the call graph for this function:



3.11 FMC_dir_wrapper.cpp

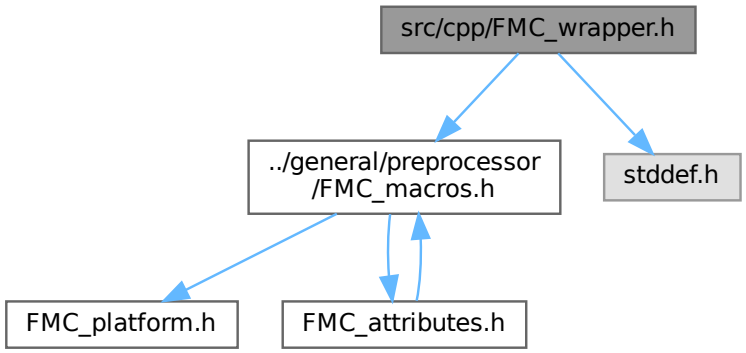
Go to the documentation of this file.

```
00001 /*
00002
00003 MIT License
00004
00005 Copyright (c) 2022-2023 Axel PASCON
00006
00007 Permission is hereby granted, free of charge, to any person obtaining a copy
00008 of this software and associated documentation files (the "Software"), to deal
00009 in the Software without restriction, including without limitation the rights
00010 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
00011 copies of the Software, and to permit persons to whom the Software is
00012 furnished to do so, subject to the following conditions:
00013
00014 The above copyright notice and this permission notice shall be included in all
00015 copies or substantial portions of the Software.
00016
00017 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
00018 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
00019 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
00020 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
00021 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
00027 #include "../FMC_wrapper.h"
00028 #include "FMC_dir.hpp"
00029 #include <stddef.h>
00030
00031 #ifdef __cplusplus
00032 extern "C" {
00033 #endif
00034
00035 FMC_SHARED int FMC_dirExists(const char *path)
00036 {
00037     return FMC_dirExists_(path);
00038 }
00039
00040 FMC_SHARED int FMC_isDir(const char *path)
00041 {
00042     return FMC_isDir_(path);
00043 }
00044
00045 FMC_SHARED int FMC_isRegFile(const char *path)
00046 {
00047     return FMC_isRegFile_(path);
00048 }
00049
00050 FMC_SHARED int FMC_isSymLink(const char *path)
00051 {
00052     return FMC_isSymLink_(path);
00053 }
00054
00055 FMC_SHARED int FMC_isBlock(const char* path)
00056 {
00057     return FMC_isBlock_(path);
00058 }
00059
00060 FMC_SHARED int FMC_isCharFile(const char* path)
00061 {
00062     return FMC_isCharFile_(path);
00063 }
00064
00065 FMC_SHARED int FMC_isSocket(const char* path)
00066 {
00067     return FMC_isSocket_(path);
00068 }
00069
00070 FMC_SHARED int FMC_isFIFO(const char* path)
00071 {
00072     return FMC_isFIFO_(path);
00073 }
00074
00075 FMC_SHARED int FMC_isOther(const char* path)
00076 {
00077     return FMC_isOther_(path);
00078 }
00079
00080 FMC_SHARED int FMC_isEmpty(const char *path)
00081 {
00082     return FMC_isEmpty_(path);
00083 }
00084
00085 //FMC_SHARED int FMC_createDir_(const char *path);
00086
00087 FMC_SHARED char *FMC_getCurrentPath(char *path, const size_t size)
```

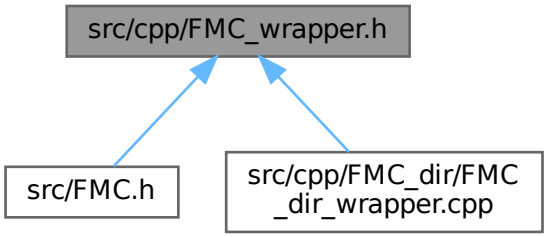
```
00088 {
00089     return FMC_getCurrentPath_(path, size);
00090 }
00091
00092 FMC_SHARED char *FMC_getAbsolutePath(char *path, char *buffer, const size_t size)
00093 {
00094     return FMC_getAbsolutePath_(path, buffer, size);
00095 }
00096
00097 #ifdef __cplusplus
00098 }
00099 #endif
```

3.12 src/cpp/FMC_wrapper.h File Reference

Include dependency graph for FMC_wrapper.h:



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



Functions

- int FMC_dirExists (const char ∗path)

Checks if a directory exists.

- char * FMC_getAbsolutePath (char *path, char *buffer, const size_t size)

  This function converts a relative path into an absolute one.
- char * FMC_getCurrentPath (char *path, const size_t size)

  This function is equivalent to $PWD in bash.
- int FMC_isBlock (const char *path)

  Checks if a path is a block device.
- int FMC_isCharFile (const char *path)

  Checks if a path is a character device.
- int FMC_isDir (const char *path)

  Checks if a path is a directory.
- int FMC_isEmpty (const char *path)

  Checks if a directory is empty.
- int FMC_isFIFO (const char *path)

  Checks if a path is a FIFO.
- int FMC_isOther (const char *path)

  Checks if a path is of an unknown type.
- int FMC_isRegFile (const char *path)

  Checks if a path is a regular file.
- int FMC_isSocket (const char *path)

  Checks if a path is a socket.
- int FMC_isSymLink (const char *path)

  Checks if a path is a symbolic link.

3.12.1 Function Documentation

3.12.1.1 FMC_dirExists()

```
int FMC_dirExists (
            const char * path )
```

Checks if a directory exists.

Author

Axel PASCON

Date

2023

This function is a wrapper around the C++ filesystem library associated function.

Parameters

in	*path*	The path whose existence is to be checked.

Returns

An integer value.

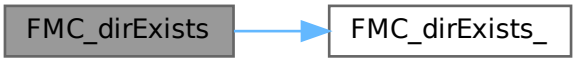
Return values

1	if the directory exists.
0	if the directory does not exist.

Definition at line 35 of file FMC_dir_wrapper.cpp.

References FMC_dirExists_().

Here is the call graph for this function:



3.12.1.2 FMC_getAbsolutePath()

```
char * FMC_getAbsolutePath (
            char * path,
            char * buffer,
            const size_t size )
```

This function converts a relative path into an absolute one.

Author

Axel PASCON

Date

2023

This function is a wrapper around the C++ filesystem library assciated function.

Parameters

in	*path*	The path to convert.
out	*buffer*	The memory buffer to store the absolute path.
in	*size*	The size of the memory buffer.

Returns

A pointer to the memory buffer.

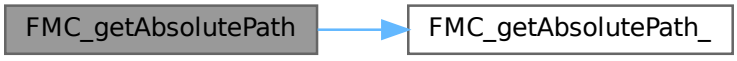
Return values

NULL	if an error occured.
buffer	The pointer to the buffer after the call if the function succeeded.

Definition at line 92 of file FMC_dir_wrapper.cpp.

References FMC_getAbsolutePath_().

Here is the call graph for this function:



3.12.1.3 FMC_getCurrentPath()

```
char * FMC_getCurrentPath (
            char * path,
            const size_t size )
```

This function is equivalent to $PWD in bash.

Author

Axel PASCON

Date

2023

This function is a wrapper around the C++ filesystem library associated function.

Parameters

out	*path*	The memory buffer to store the current path.
in	*size*	The size of the memory buffer.

Returns

A pointer to the memory buffer.

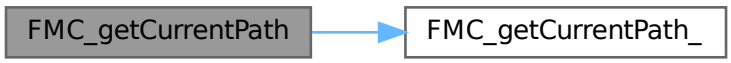
Return values

NULL	if an error occured.
path	The pointer to path after the call if the function succeeded.

Definition at line 87 of file FMC_dir_wrapper.cpp.

References FMC_getCurrentPath_().

Here is the call graph for this function:



3.12.1.4 FMC_isBlock()

```
int FMC_isBlock (
            const char * path )
```

Checks if a path is a block device.

Author

Axel PASCON

Date

2023

This function is a wrapper around the C++ filesystem library assciated function.

Parameters

in	*path*	The path to check.

Returns

An integer value.

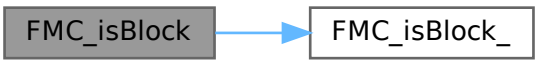
Return values

1	if the path is a block device.
0	if the path is not a block device.
-1	if an error occured.

Definition at line 55 of file FMC_dir_wrapper.cpp.

References FMC_isBlock_().

Here is the call graph for this function:



3.12.1.5 FMC_isCharFile()

```
int FMC_isCharFile (
            const char * path )
```

Checks if a path is a character device.

Author

Axel PASCON

Date

2023

This function is a wrapper around the C++ filesystem library assciated function.

Parameters

in	*path*	The path to check.

Returns

An integer value.

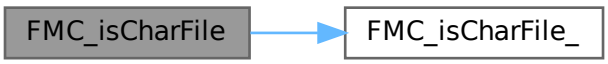
Return values

1	if the path is a character device.
0	if the path is not a character device.
-1	if an error occured.

Definition at line 60 of file FMC_dir_wrapper.cpp.

References FMC_isCharFile_().

Here is the call graph for this function:



3.12.1.6 FMC_isDir()

```
int FMC_isDir (
            const char * path )
```

Checks if a path is a directory.

Author

Axel PASCON

Date

2023

This function is a wrapper around the C++ filesystem library assciated function.

Parameters

in	*path*	The path to check.

Returns

An integer value.

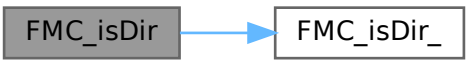
Return values

1	if the path is a directory.
0	if the path is not a directory.
-1	if an error occured.

Definition at line 40 of file FMC_dir_wrapper.cpp.

References FMC_isDir_().

Here is the call graph for this function:



3.12.1.7 FMC_isEmpty()

```
int FMC_isEmpty (
            const char * path )
```

Checks if a directory is empty.

Author

Axel PASCON

Date

2023

This function is a wrapper around the C++ filesystem library assciated function.

Parameters

in	*path*	The path to check.

Returns

An integer value.

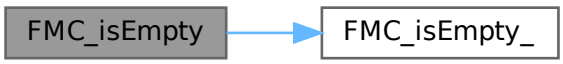
Return values

1	if the directory is empty.
0	if the directory is not empty.
-1	if an error occured.

Definition at line 80 of file FMC_dir_wrapper.cpp.

References FMC_isEmpty_().

Here is the call graph for this function:



3.12.1.8 FMC_isFIFO()

```
int FMC_isFIFO (
            const char * path )
```

Checks if a path is a FIFO.

Author

Axel PASCON

Date

2023

This function is a wrapper around the C++ filesystem library assciated function.

Parameters

in	*path*	The path to check.

Returns

An integer value.

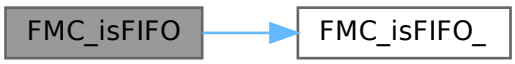
Return values

1	if the path is a FIFO.
0	if the path is not a FIFO.
-1	if an error occured.

Definition at line 70 of file FMC_dir_wrapper.cpp.

References FMC_isFIFO_().

Here is the call graph for this function:



3.12.1.9 FMC_isOther()

```
int FMC_isOther (
            const char * path )
```

Checks if a path is of an unknown type.

Author

Axel PASCON

Date

2023

This function is a wrapper around the C++ filesystem library assciated function.

Parameters

in	*path*	The path to check.

Returns

An integer value.

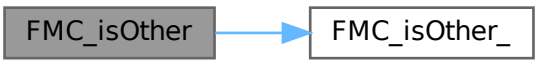
Return values

1	if the path is of an unknown type.
0	if the path is not of an unknown type.
-1	if an error occured.

Definition at line 75 of file FMC_dir_wrapper.cpp.

References FMC_isOther_().

Here is the call graph for this function:



3.12.1.10 FMC_isRegFile()

```
int FMC_isRegFile (
            const char * path )
```

Checks if a path is a regular file.

Author

Axel PASCON

Date

2023

This function is a wrapper around the C++ filesystem library assciated function.

Parameters

in	*path*	The path to check.

Returns

An integer value.

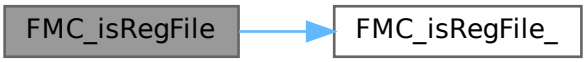
Return values

1	if the path is a regular file.
0	if the path is not a regular file.
-1	if an error occured.

Definition at line 45 of file FMC_dir_wrapper.cpp.

References FMC_isRegFile_().

Here is the call graph for this function:



3.12.1.11 FMC_isSocket()

```
int FMC_isSocket (
            const char * path )
```

Checks if a path is a socket.

Author

Axel PASCON

Date

2023

This function is a wrapper around the C++ filesystem library assciated function.

Parameters

in	*path*	The path to check.

Returns

An integer value.

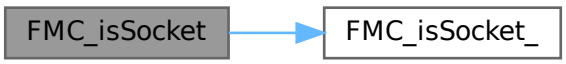
Return values

1	if the path is a socket.
0	if the path is not a socket.
-1	if an error occured.

Definition at line 65 of file FMC_dir_wrapper.cpp.

References FMC_isSocket_().

Here is the call graph for this function:



3.12.1.12 FMC_isSymLink()

```
int FMC_isSymLink (
            const char * path )
```

Checks if a path is a symbolic link.

Author

Axel PASCON

Date

2023

This function is a wrapper around the C++ filesystem library assciated function.

Parameters

in	*path*	The path to check.

Returns

An integer value.

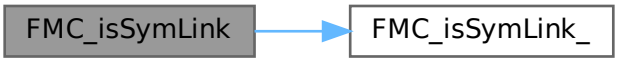
Return values

1	if the path is a symbolic link.
0	if the path is not a symbolic link.
-1	if an error occured.

Definition at line 50 of file FMC_dir_wrapper.cpp.

References FMC_isSymLink_().

Here is the call graph for this function:



3.13 FMC_wrapper.h

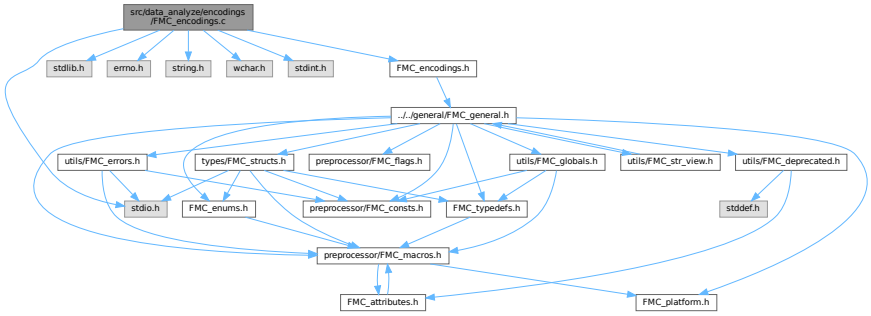
Go to the documentation of this file.

```
00001 /*
00002
00003 MIT License
00004
00005 Copyright (c) 2022-2023 Axel PASCON
00006
00007 Permission is hereby granted, free of charge, to any person obtaining a copy
00008 of this software and associated documentation files (the "Software"), to deal
00009 in the Software without restriction, including without limitation the rights
00010 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
00011 copies of the Software, and to permit persons to whom the Software is
00012 furnished to do so, subject to the following conditions:
00013
00014 The above copyright notice and this permission notice shall be included in all
00015 copies or substantial portions of the Software.
00016
00017 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
00018 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
00019 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
00020 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
00021 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
00027 #ifndef FMC_WRAPPER_H
00028 #define FMC_WRAPPER_H
00029
00030 #ifdef __cplusplus
00031 extern "C" {
00032 #endif
00033
00034 #include "../general/preprocessor/FMC_macros.h"
00035
00036 #include <stddef.h>
00037
```

```
00038 // FMC_dir
00052 FMC_SHARED int FMC_dirExists(const char *path);
00066 FMC_SHARED int FMC_isDir(const char *path);
00080 FMC_SHARED int FMC_isRegFile(const char *path);
00094 FMC_SHARED int FMC_isSymLink(const char *path);
00108 FMC_SHARED int FMC_isBlock(const char* path);
00122 FMC_SHARED int FMC_isCharFile(const char* path);
00136 FMC_SHARED int FMC_isSocket(const char* path);
00150 FMC_SHARED int FMC_isFIFO(const char* path);
00164 FMC_SHARED int FMC_isOther(const char* path);
00178 FMC_SHARED int FMC_isEmpty(const char *path);
00192 FMC_SHARED char *FMC_getCurrentPath(char *path, const size_t size);
00207 FMC_SHARED char *FMC_getAbsolutePath(char *path, char *buffer, const size_t size);
00208 // !FMC_dir
00209
00210 #ifdef __cplusplus
00211 }
00212 #endif
00213
00214
00215 #endif // FMC_WRAPPER_H
```

3.14 src/data_analyze/encodings/FMC_encodings.c File Reference

Include dependency graph for FMC_encodings.c:



Macros

- #define __STDC_WANT_LIB_EXT1__ 1

Functions

- FMC_FUNC_CONST FMC_Encodings FMC_checkEncodingFlag (int encoding)
- FMC_Encodings FMC_getEncoding (FILE *file)

3.14.1 Macro Definition Documentation

3.14.1.1 __STDC_WANT_LIB_EXT1__

```
#define __STDC_WANT_LIB_EXT1__ 1
```

Definition at line 26 of file FMC_encodings.c.

3.14.2 Function Documentation

3.14.2.1 FMC_checkEncodingFlag()

```
FMC_FUNC_CONST FMC_Encodings FMC_checkEncodingFlag (
            int encoding )
```

Definition at line 210 of file FMC_encodings.c.

References ASCII, ascii, error, unknown, UTF16_BE, utf16_be, UTF16_LE, utf16_le, UTF32_BE, utf32_be, UTF32_LE, utf32_le, UTF8, utf8, UTF8_BOM, and utf8_bom.

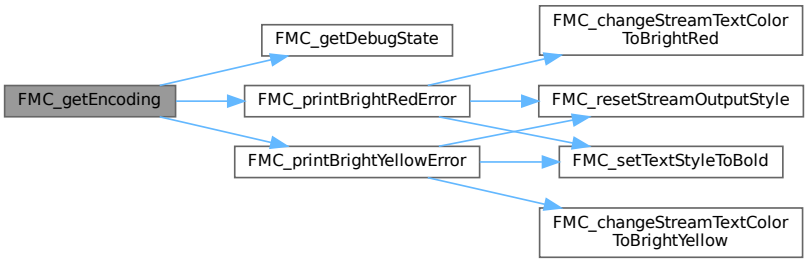
3.14.2.2 FMC_getEncoding()

```
FMC_Encodings FMC_getEncoding (
            FILE * file )
```

Definition at line 36 of file FMC_encodings.c.

References ascii, error, FMC_getDebugState(), FMC_makeMsg, FMC_printBrightRedError(), FMC_printBrightYellowError(), unknown, utf16_be, utf16_le, utf32_be, utf32_le, utf8, and utf8_bom.

Here is the call graph for this function:



3.15 FMC_encodings.c

Go to the documentation of this file.

```
00001 /*
00002
00003 MIT License
00004
00005 Copyright (c) 2023 Axel PASCON
00006
00007 Permission is hereby granted, free of charge, to any person obtaining a copy
00008 of this software and associated documentation files (the "Software"), to deal
00009 in the Software without restriction, including without limitation the rights
00010 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
00011 copies of the Software, and to permit persons to whom the Software is
00012 furnished to do so, subject to the following conditions:
00013
00014 The above copyright notice and this permission notice shall be included in all
00015 copies or substantial portions of the Software.
00016
00017 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
00018 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
00019 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
00020 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
00021 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026 #define __STDC_WANT_LIB_EXT1__ 1
00027 #include <stdio.h>
00028 #include <stdlib.h>
00029 #include <errno.h>
00030 #include <string.h>
00031 #include <wchar.h> // fwide
00032 #include <stdint.h>
00033
00034 #include "FMC_encodings.h"
00035
00036 FMC_SHARED FMC_FUNC_WARN_UNUSED_RESULT FMC_FUNC_NONNULL(1) FMC_Encodings FMC_getEncoding(FILE *file)
00037 {
00038     #pragma GCC diagnostic ignored "-Wnonnull-compare" // get an error at compile time without this
      (because of attribute nonnull)
00039     if (file == NULL)
00040     {
00041         if (FMC_getDebugState())
00042         {
00043             FMC_makeMsg(err_null, 4, "ERROR : ", "In function : ", __func__, ". The provided file must
      not be NULL.");
00044             FMC_printBrightRedError(stderr, err_null);
00045         }
00046         return error;
00047     }
00048     #pragma GCC diagnostic pop
00049
00050     // check orientation
00051     if (fwide(file, -1) >= 0)
00052     {
00053         if (FMC_getDebugState())
00054         {
00055             FMC_makeMsg(err_wide, 4, "ERROR : ", "In function : ", __func__, ". The provided file must
      be opened with by orientation.");
00056             FMC_printBrightRedError(stderr, err_wide);
00057         }
00058         return error;
00059     }
00060
00061     long long sizeOfFile = 0;
00062     if(fseek(file, 0, SEEK_END))
00063     {
00064         FMC_makeMsg(err_seek_1, 4, "FMC INTERNAL ERROR : ", "In function : ", __func__, ". fseek
      failure.");
00065         FMC_printBrightRedError(stderr, err_seek_1);
00066         return error;
00067     }
00068     errno = 0;
00069     sizeOfFile = ftell(file);
00070     if (errno || sizeOfFile == -1L)
00071     {
00072         FMC_makeMsg(err_tell, 5, "FMC INTERNAL ERROR : ", "In function : ", __func__, ". ftell
      failure.", strerror(errno));
00073         FMC_printBrightRedError(stderr, err_tell);
00074         return error;
00075     }
00076
00077     rewind(file);
```

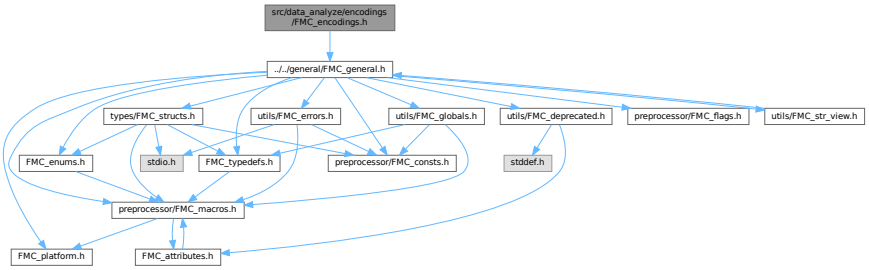
```
00078     char buff[4] = {0};
00079     // 1st if
00080     if(sizeOfFile < 0) // no error, must have overflowed
00081     {
00082         #if defined(__INTELLISENSE__)
00083         #pragma diag_suppress 109
00084         #endif
00085         sizeOfFile = (typeof(sizeOfFile)) SIZE_MAX;
00086         #if defined(__INTELLISENSE__)
00087         #pragma diag_default 109
00088         #endif
00089         size_t ret = fread(buff, 1, 4, file);
00090         if(ret != 4) goto check_error_type_1;
00091         else if (ret == 4) goto end_check_1;
00092         else return error;
00093     }
00094
00095     // 2nd if
00096     else if (sizeOfFile <= 4 && sizeOfFile >= 0)
00097     {
00098         size_t ret = fread(buff, 1, (size_t)sizeOfFile, file); // harmless cast here because 0 <=
      sizeOfFile <= 4
00099         if(ret != (size_t) sizeOfFile) goto check_error_type_1;
00100         else if (ret == (size_t) sizeOfFile) goto end_check_1;
00101         else return error;
00102
00103         check_error_type_1 :
00104         FMC_LABEL_COLD;
00105         if (feof(file))
00106         {
00107             FMC_makeMsg(err_feof, 4, "FMC INTERNAL ERROR : ", "In function : ", __func__, ". EOF
      indicator set.");
00108             FMC_printBrightRedError(stderr, err_feof);
00109             return error;
00110         }
00111         else if (ferror(file))
00112         {
00113             FMC_makeMsg(err_ferror, 5, "FMC INTERNAL ERROR : ", "In function : ", __func__, ". Error
      indicator set.", strerror(errno));
00114             FMC_printBrightRedError(stderr, err_ferror);
00115             return error;
00116         }
00117         else
00118         {
00119             FMC_makeMsg(err_fread, 4, "FMC INTERNAL ERROR : ", "In function : ", __func__, ". fread
      failure.");
00120             FMC_printBrightRedError(stderr, err_fread);
00121             return error;
00122         }
00123
00124     }
00125
00126     // 3rd if
00127     else if(fread(buff, 1, 4, file) != 4)
00128     {
00129         if (feof(file))
00130         {
00131             FMC_makeMsg(err_feof, 4, "FMC INTERNAL ERROR : ", "In function : ", __func__, ". EOF
      indicator set.");
00132             FMC_printBrightRedError(stderr, err_feof);
00133             return error;
00134         }
00135         else if (ferror(file))
00136         {
00137             FMC_makeMsg(err_ferror, 5, "FMC INTERNAL ERROR : ", "In function : ", __func__, ". Error
      indicator set.", strerror(errno));
00138             FMC_printBrightRedError(stderr, err_ferror);
00139             return error;
00140         }
00141         else
00142         {
00143             FMC_makeMsg(err_fread, 4, "FMC INTERNAL ERROR : ", "In function : ", __func__, ". fread
      failure.");
00144             FMC_printBrightRedError(stderr, err_fread);
00145             return error;
00146         }
00147     }
00148
00149     end_check_1 :
00150     FMC_LABEL_HOT;
00151     if (sizeOfFile >= 3 && (unsigned char) buff[0] == 0xEF && (unsigned char) buff[1] == 0xBB &&
      (unsigned char) buff[2] == 0xBF)
00152     {
00153         rewind(file);
00154         return utf8_bom;
00155     }
00156     else if (sizeOfFile >= 2 && (unsigned char) buff[0] == 0xFF && (unsigned char) buff[1] == 0xFE)
```

```
00157     {
00158         rewind(file);
00159         return utf16_le;
00160     }
00161     else if (sizeOfFile >= 2 && (unsigned char) buff[0] == 0xFE && (unsigned char) buff[1] == 0xFF)
00162     {
00163         rewind(file);
00164         return utf16_be;
00165     }
00166     else if (sizeOfFile >= 4 && (unsigned char) buff[0] == 0x00 && (unsigned char) buff[1] == 0x00 &&
    (unsigned char) buff[2] == 0xFE && (unsigned char) buff[3] == 0xFF)
00167     {
00168         rewind(file);
00169         return utf32_be;
00170     }
00171     else if (sizeOfFile >= 4 && (unsigned char) buff[0] == 0xFF && (unsigned char) buff[1] == 0xFE &&
    (unsigned char) buff[2] == 0x00 && (unsigned char) buff[3] == 0x00)
00172     {
00173         rewind(file);
00174         return utf32_le;
00175     }
00176     else
00177     {
00178         rewind(file);
00179         if (sizeOfFile == 0)
00180         {
00181             rewind(file);
00182             if (FMC_getDebugState())
00183             {
00184                 FMC_makeMsg(err_empty, 4, "WARNING : ", "In function : ", __func__, ". The provided
    file is empty.");
00185                 FMC_printBrightYellowError(stderr, err_empty);
00186             }
00187             return unknown;
00188         }
00189 
00190         char currentChar = 0;
00191         size_t cpt = 0;
00192         while((currentChar = (char)fgetc(file)) != EOF)
00193         {
00194             if (currentChar != EOF &&  (unsigned char) currentChar > 127)
00195             {
00196                 rewind(file);
00197                 return utf8;
00198             }
00199             cpt++;
00200             if ((long long) cpt >= sizeOfFile)
00201             {
00202                 break;
00203             }
00204         }
00205         rewind(file);
00206         return ascii;
00207     }
00208 }
00209 
00210 FMC_SHARED FMC_FUNC_CONST FMC_Encodings FMC_checkEncodingFlag(int encoding)
00211 {
00212     switch (encoding)
00213     {
00214         case ASCII:
00215             return ascii;
00216             break;
00217         case UTF8:
00218             return utf8;
00219             break;
00220         case UTF8_BOM:
00221             return utf8_bom;
00222             break;
00223         case UTF16_LE:
00224             return utf16_le;
00225             break;
00226         case UTF16_BE:
00227             return utf16_be;
00228             break;
00229         case UTF32_LE:
00230             return utf32_le;
00231             break;
00232         case UTF32_BE:
00233             return utf32_be;
00234             break;
00235         default: // TODO : add error in case of unknown encoding
00236             return unknown;
00237             break;
00238     }
00239     return error;
00240 }
```

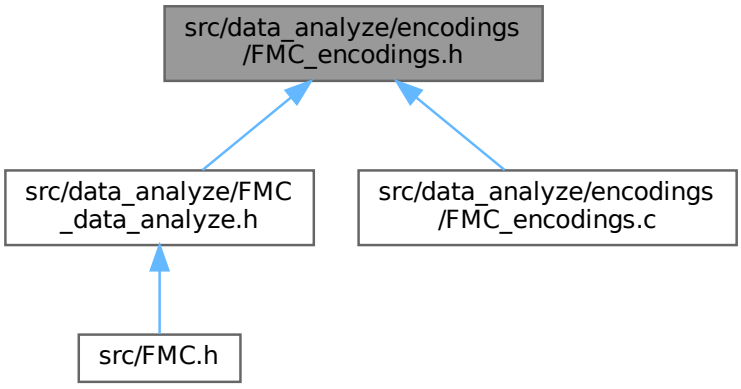
```
00241
00242 /*FMC_SHARED FMC_Char FMC_getc(FMC_File file)
00243 {
00244     FMC_Char c = {.encoding = file.encoding, .comp = {.mostLeft = 0, .middleLeft = 0, .middleRight =
      0, .mostRight = 0}, .isNull = 0};
00245     if(file.file == NULL || file.encoding == error || file.encoding == unknown)
00246     {
00247         c.isNull = 1;
00248         return c;
00249     }
00250     else if (fwide(file.file, 0) > 0)
00251     {
00252         fprintf(stderr, "Error: file is wide oriented when trying to read with byte orientation\n");
00253         c.isNull = 1;
00254         return c;
00255     }
00256     else if (file.encoding == ascii)
00257     {
00258         if (!feof(file.file))
00259         {
00260
00261         }
00262
00263     }
00264 }*/
```

3.16 src/data_analyze/encodings/FMC_encodings.h File Reference

Include dependency graph for FMC_encodings.h:



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



Macros

- #define FMC_ENCODINGS

Functions

- FMC_FUNC_CONST FMC_Encodings FMC_checkEncodingFlag (int encoding)
- FMC_Encodings FMC_getEncoding (FILE *file)

3.16.1 Macro Definition Documentation

3.16.1.1 FMC_ENCODINGS

```
#define FMC_ENCODINGS
```

Definition at line 30 of file FMC_encodings.h.

3.16.2 Function Documentation

3.16.2.1 FMC_checkEncodingFlag()

```
FMC_FUNC_CONST FMC_Encodings FMC_checkEncodingFlag (
            int encoding )
```

Definition at line 210 of file FMC_encodings.c.

References ASCII, ascii, error, unknown, UTF16_BE, utf16_be, UTF16_LE, utf16_le, UTF32_BE, utf32_be, UTF32_LE, utf32_le, UTF8, utf8, UTF8_BOM, and utf8_bom.

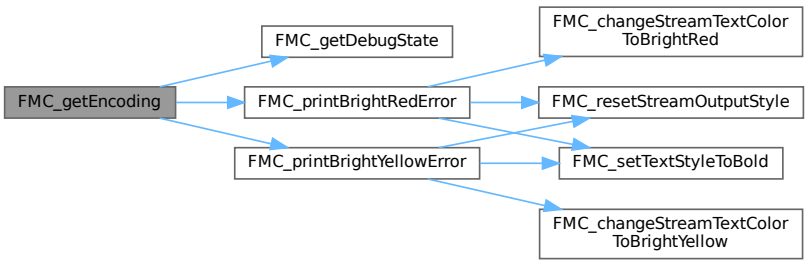
3.16.2.2 FMC_getEncoding()

```
FMC_Encodings FMC_getEncoding (
            FILE * file )
```

Definition at line 36 of file FMC_encodings.c.

References ascii, error, FMC_getDebugState(), FMC_makeMsg, FMC_printBrightRedError(), FMC_printBrightYellowError(), unknown, utf16_be, utf16_le, utf32_be, utf32_le, utf8, and utf8_bom.

Here is the call graph for this function:



3.17 FMC_encodings.h

Go to the documentation of this file.

```
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00006
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00008 of this software and associated documentation files (the "Software"), to deal
00009 in the Software without restriction, including without limitation the rights
00010 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
00011 copies of the Software, and to permit persons to whom the Software is
00012 furnished to do so, subject to the following conditions:
00013
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00015 copies or substantial portions of the Software.
00016
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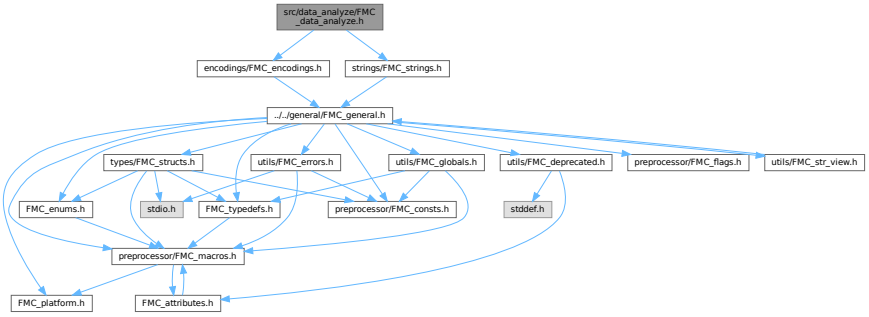
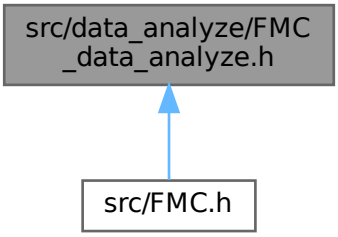
00018 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
00019 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
00020 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
00021 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
00027 #pragma once
00028
00029 #ifndef FMC_ENCODINGS
00030 #define FMC_ENCODINGS
00031
00032 #include "../../general/FMC_general.h"
00033
00034 FMC_SHARED FMC_FUNC_WARN_UNUSED_RESULT FMC_FUNC_NONNULL(1) FMC_Encodings FMC_getEncoding(FILE *file);
00035 FMC_SHARED FMC_FUNC_CONST FMC_Encodings FMC_checkEncodingFlag(int encoding);
00036
00037 #endif // FMC_ENCODINGS
```

3.18 src/data_analyze/FMC_data_analyze.h File Reference

Include dependency graph for FMC_data_analyze.h:



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



Macros

- #define FMC_DATA_ANALYZE_H

3.18.1 Macro Definition Documentation

3.18.1.1 FMC_DATA_ANALYZE_H

```
#define FMC_DATA_ANALYZE_H
```

Definition at line 30 of file FMC_data_analyze.h.

3.19 FMC_data_analyze.h

Go to the documentation of this file.

```
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00006
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00011 copies of the Software, and to permit persons to whom the Software is
00012 furnished to do so, subject to the following conditions:
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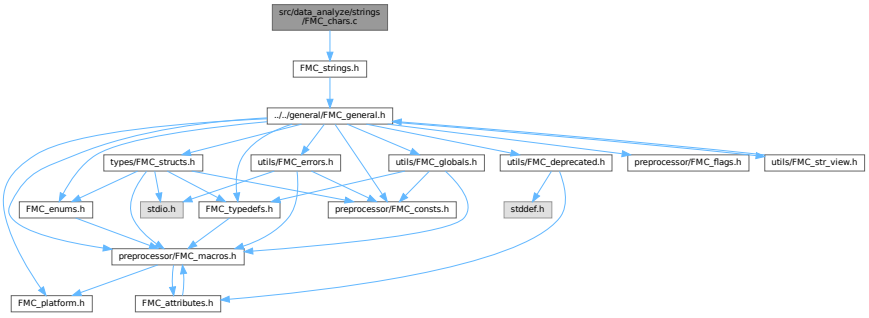
00021 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
```

```
00025 */
00026
00027 #pragma once
00028
00029 #ifndef FMC_DATA_ANALYZE_H
00030 #define FMC_DATA_ANALYZE_H
00031
00032
00033 #include "encodings/FMC_encodings.h"
00034 #include "strings/FMC_strings.h"
00035
00036 #endif // FMC_DATA_ANALYZE_H
```

3.20 src/data_analyze/strings/FMC_chars.c File Reference

Include dependency graph for FMC_chars.c:



3.21 FMC_chars.c

Go to the documentation of this file.

```
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00006
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00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
00027 #include "FMC_strings.h"
00028
00029 /* FMC_SHARED FMC_FUNC_NONNULL(1) FMC_FUNC_HOT FMC_Char FMC_getChar(FMC_File *file)
00030 {
00031     #pragma GCC diagnostic ignored "-Wnonnull-compare"
00032     if (file == NULL)
00033     {
00034         FMC_makeMsg(err_nullarg, 3, "ERROR : In function : ", __func__, " : the provided file pointer
      is NULL");
```

```
00035         FMC_printRedError(stderr, err_nullarg);
00036     }
00037     #pragma GCC diagnostic pop
00038     if (!file->isOpened || file->name)
00039     {
00040
00041     }
00042
00043 } */
```

3.22 src/data_analyze/strings/FMC_strings.c File Reference

3.23 FMC_strings.c

Go to the documentation of this file.

```
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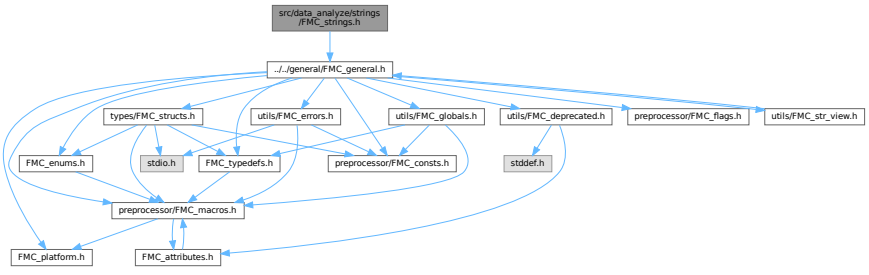
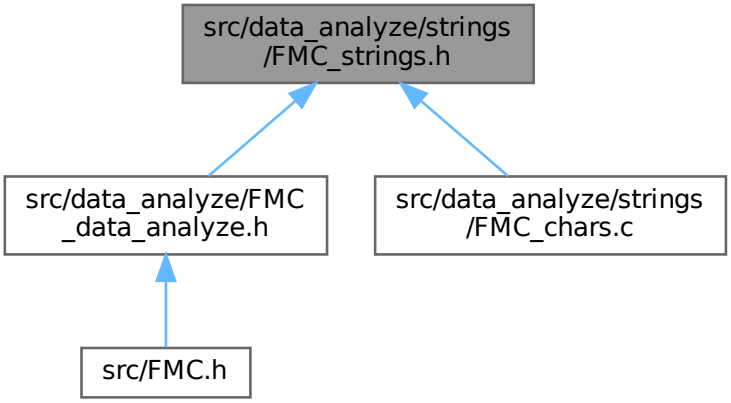
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
```

3.24 src/data_analyze/strings/FMC_strings.h File Reference

Include dependency graph for FMC_strings.h:



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



Macros

- #define FMC_STRINGS_H

3.24.1 Macro Definition Documentation

3.24.1.1 FMC_STRINGS_H

```
#define FMC_STRINGS_H
```

Definition at line 30 of file FMC_strings.h.

3.25 FMC_strings.h

Go to the documentation of this file.

```
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```

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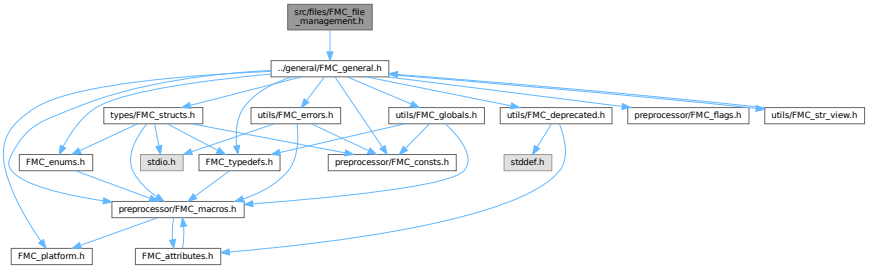
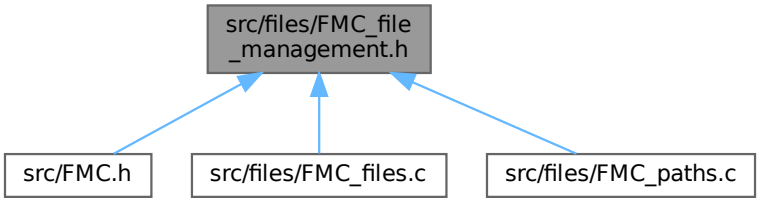
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
00027 #pragma once
00028
00029 #ifndef FMC_STRINGS_H
00030 #define FMC_STRINGS_H
00031
00032 #include "../../general/FMC_general.h"
00033
00034
00035 #endif // FMC_STRINGS_H
```

3.26 src/files/FMC_file_management.h File Reference

Include dependency graph for FMC_file_management.h:



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



Macros

- #define FMC_FILE_MANAGEMENT_H

Functions

- char * FMC_cutFilename (const char *restrict const path, char *restrict dirs, const size_t dirs_size)
- char * FMC_extractFilename (const char *restrict const path, char *restrict filename, const size_t filename_size)

  Gets the filename from a complete path.
- char * FMC_getExtension (const char *restrict const path, char *restrict ext, const size_t ext_size)

3.26.1 Macro Definition Documentation

3.26.1.1 FMC_FILE_MANAGEMENT_H

```
#define FMC_FILE_MANAGEMENT_H
```

Definition at line 30 of file FMC_file_management.h.

3.26.2 Function Documentation

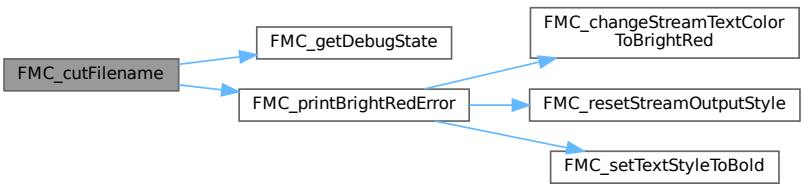
3.26.2.1 FMC_cutFilename()

```
char * FMC_cutFilename (
            const char *restrict const path,
            char *restrict dirs,
            const size_t dirs_size )
```

Definition at line 109 of file FMC_paths.c.

References FMC_getDebugState(), FMC_makeMsg, FMC_printBrightRedError(), MAX_FEXT_SIZE, MAX_FNAME_SIZE, and MAX_FPATH_SIZE.

Here is the call graph for this function:



3.26.2.2 FMC_extractFilename()

```
char * FMC_extractFilename (
            const char *restrict const path,
            char *restrict filename,
            const size_t filename_size )
```

Gets the filename from a complete path.

Author

Axel PASCON

Date

2023

Basically, this function only detects the last '/' or '\' character. For example, if the path is "C:\\Users\\someone\\↩ Documents\\MyFile.txt", the function will return "MyFile.txt". If the path is "/home/someone/Desktop", then Desktop will be considered as the filename. This function is designed to only operate on strings, and do not check if the path is valid, is a file or a directory, etc.

Parameters

in	*path*	The path to extract the filename from.
out	*filename*	The buffer where the filename will be stored.
in	*filename_size*	The size of the filename buffer.

Returns

A pointer to the filename buffer.

Return values

NULL	If the path is NULL, if the filename buffer is NULL or if an error occured. The error can be viewed by setting FMC_ENABLE_DEBUG to True .

Warning

The filename buffer must be at least as big as the path.

Note

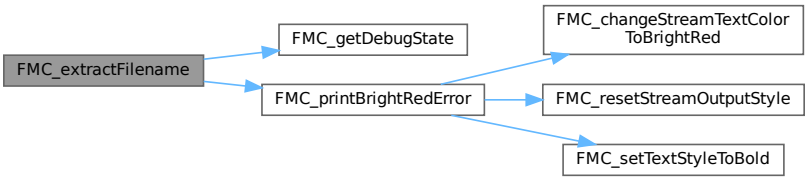
The maximum filename size is MAX_FNAME_SIZE . You can disable some warnings or error messages by defining FMC_ENABLE_DEBUG to False .

Definition at line 32 of file FMC_paths.c.

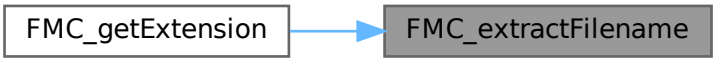
References FMC_getDebugState(), FMC_makeMsg, FMC_printBrightRedError(), MAX_FEXT_SIZE, MAX_FNAME_SIZE, and MAX_FPATH_SIZE.

Referenced by FMC_getExtension().

Here is the call graph for this function:



Here is the caller graph for this function:



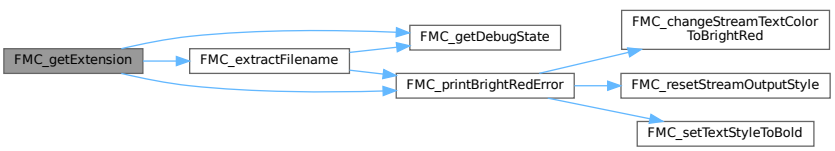
3.26.2.3 FMC_getExtension()

```
char * FMC_getExtension (
            const char *restrict const path,
            char *restrict ext,
            const size_t ext_size )
```

Definition at line 187 of file FMC_paths.c.

References FMC_extractFilename(), FMC_getDebugState(), FMC_makeMsg, FMC_printBrightRedError(), MAX_FEXT_SIZE, and MAX_FNAME_SIZE.

Here is the call graph for this function:



3.27 FMC_file_management.h

Go to the documentation of this file.

```
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00021 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
00027 #pragma once
00028
00029 #ifndef FMC_FILE_MANAGEMENT_H
00030 #define FMC_FILE_MANAGEMENT_H
00031
00032 #include "../general/FMC_general.h"
00033
00048 FMC_SHARED FMC_FUNC_HOT FMC_FUNC_WARN_UNUSED_RESULT FMC_FUNC_NONNULL(1, 2) char
      *FMC_extractFilename(const char * restrict const path, char * restrict filename, const size_t
      filename_size);
00049 FMC_SHARED FMC_FUNC_HOT FMC_FUNC_WARN_UNUSED_RESULT FMC_FUNC_NONNULL(1, 2) char *FMC_cutFilename(const
      char * restrict const path, char * restrict dirs, const size_t dirs_size);
00050 FMC_SHARED FMC_FUNC_HOT FMC_FUNC_WARN_UNUSED_RESULT FMC_FUNC_NONNULL(1, 2) char
      *FMC_getExtension(const char * restrict const path, char * restrict ext, const size_t ext_size);
00051
00052 #endif // FMC_FILE_MANAGEMENT_H
```

3.28 src/files/FMC_fileMan.c File Reference

3.29 FMC_fileMan.c

Go to the documentation of this file.

```
00001 /*
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00004
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00006
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00008 of this software and associated documentation files (the "Software"), to deal
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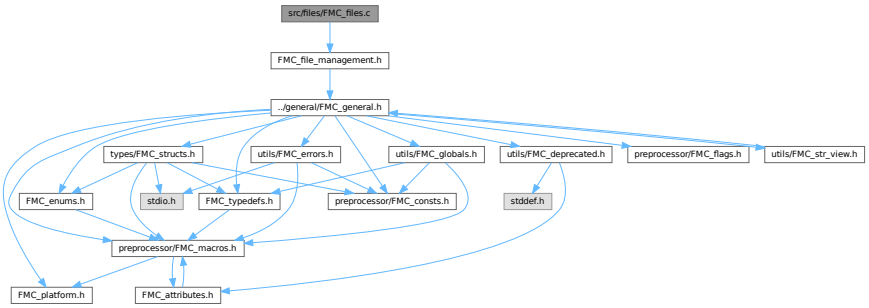
00021 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
```

3.30 src/files/FMC_files.c File Reference

Include dependency graph for FMC_files.c:



3.31 FMC_files.c

Go to the documentation of this file.

```
00001 /*
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00005 Copyright (c) 2022-2023 Axel PASCON
00006
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00008 of this software and associated documentation files (the "Software"), to deal
00009 in the Software without restriction, including without limitation the rights
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00011 copies of the Software, and to permit persons to whom the Software is
00012 furnished to do so, subject to the following conditions:
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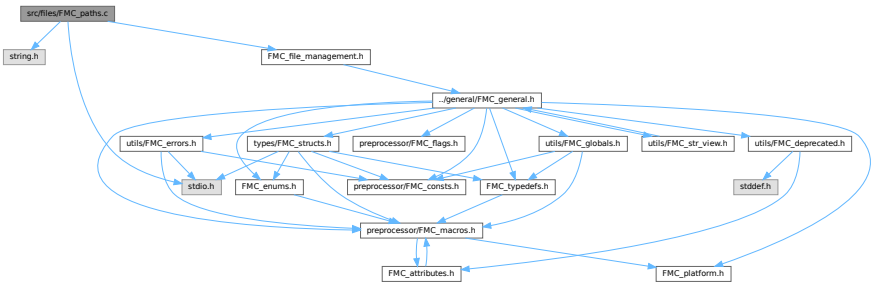
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
00027 #include "FMC_file_management.h"
00028
00029
00030 /* FMC_SHARED FMC_FUNC_NONNULL(1) FMC_File *FMC_createFile(const char* restrict const path)
00031 {
00032     #pragma GCC diagnostic ignored "-Wnonnull-compare"
00033
00034     #pragma GCC diagnostic pop // -Wnonnull-compare
00035     if (path == NULL)
00036     {
00037         return NULL;
00038     }
00039 } */
```

3.32 src/files/FMC_paths.c File Reference

Include dependency graph for FMC_paths.c:



Functions

- char * FMC_cutFilename (const char *restrict const path, char *restrict dirs, const size_t dirs_size)
- char * FMC_extractFilename (const char *restrict const path, char *restrict filename, const size_t filename↩ _size)

  Gets the filename from a complete path.
- char * FMC_getExtension (const char *restrict const path, char *restrict ext, const size_t ext_size)

3.32.1 Function Documentation

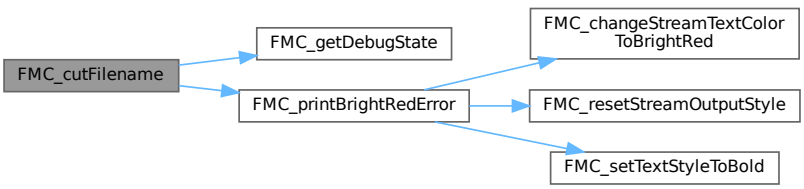
3.32.1.1 FMC_cutFilename()

```
char * FMC_cutFilename (
            const char *restrict const path,
            char *restrict dirs,
            const size_t dirs_size )
```

Definition at line 109 of file FMC_paths.c.

References FMC_getDebugState(), FMC_makeMsg, FMC_printBrightRedError(), MAX_FEXT_SIZE, MAX_FNAME_SIZE, and MAX_FPATH_SIZE.

Here is the call graph for this function:



3.32.1.2 FMC_extractFilename()

```
char * FMC_extractFilename (
            const char *restrict const path,
            char *restrict filename,
            const size_t filename_size )
```

Gets the filename from a complete path.

Author

Axel PASCON

Date

2023

Basically, this function only detects the last '/' or '\' character. For example, if the path is "C:\\Users\\someone\\↩ Documents\\MyFile.txt", the function will return "MyFile.txt". If the path is "/home/someone/Desktop", then Desktop will be considered as the filename. This function is designed to only operate on strings, and do not check if the path is valid, is a file or a directory, etc.

Parameters

in	*path*	The path to extract the filename from.
out	*filename*	The buffer where the filename will be stored.
in	*filename_size*	The size of the filename buffer.

Returns

A pointer to the filename buffer.

Return values

NULL	If the path is NULL, if the filename buffer is NULL or if an error occured. The error can be viewed by setting FMC_ENABLE_DEBUG to True .

Warning

The filename buffer must be at least as big as the path.

Note

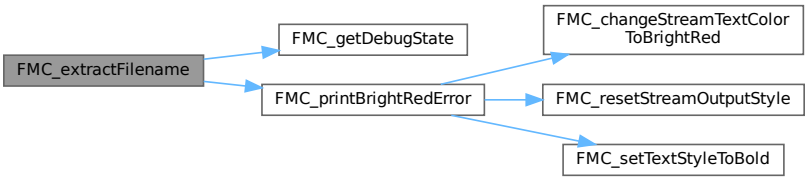
The maximum filename size is MAX_FNAME_SIZE . You can disable some warnings or error messages by defining FMC_ENABLE_DEBUG to False .

Definition at line 32 of file FMC_paths.c.

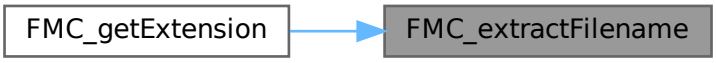
References FMC_getDebugState(), FMC_makeMsg, FMC_printBrightRedError(), MAX_FEXT_SIZE, MAX_FNAME_SIZE, and MAX_FPATH_SIZE.

Referenced by FMC_getExtension().

Here is the call graph for this function:



Here is the caller graph for this function:



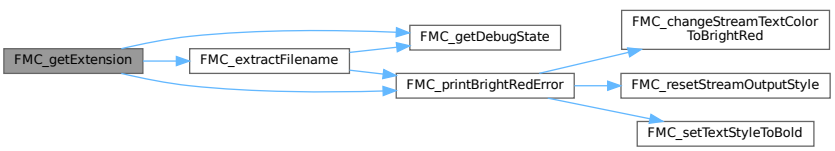
3.32.1.3 FMC_getExtension()

```
char * FMC_getExtension (
            const char *restrict const path,
            char *restrict ext,
            const size_t ext_size )
```

Definition at line 187 of file FMC_paths.c.

References FMC_extractFilename(), FMC_getDebugState(), FMC_makeMsg, FMC_printBrightRedError(), MAX_FEXT_SIZE, and MAX_FNAME_SIZE.

Here is the call graph for this function:



3.33 FMC_paths.c

Go to the documentation of this file.

```
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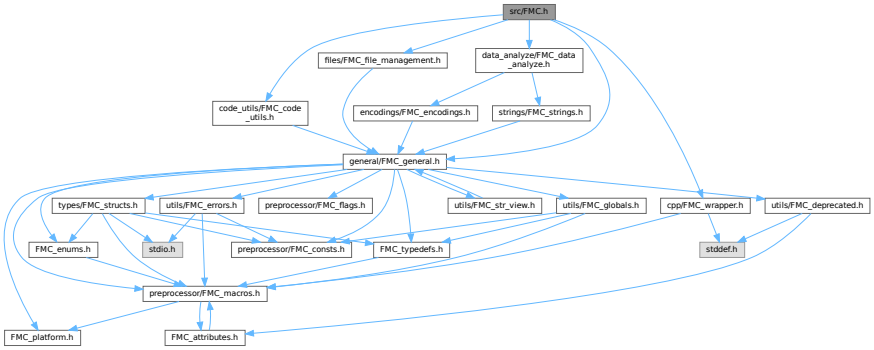
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
00027 #include <string.h>
00028 #include <stdio.h>
00029
00030 #include "FMC_file_management.h"
00031
00032 FMC_SHARED FMC_FUNC_HOT FMC_FUNC_WARN_UNUSED_RESULT FMC_FUNC_NONNULL(1, 2) char
      *FMC_extractFilename(const char * restrict const path, char * restrict filename, const size_t
      filename_size)
00033 {
00034     #pragma GCC diagnostic ignored "-Wnonnull-compare" // get an error at compile time without this
      (because of attribute nonnull)
00035     if (!path || !filename)
00036     {
00037         if (FMC_getDebugState())
00038         {
00039             FMC_makeMsg(err_null, 4, "ERROR : ", "In function : ", __func__, ". At least one of the
      provided pointers is NULL.");
00040             FMC_printBrightRedError(stderr, err_null);
00041         }
00042         return NULL;
00043     }
00044     #pragma GCC diagnostic pop
00045     memset(filename, 0, filename_size);
00046     size_t path_len = 0;
00047     if ((path_len = strnlen(path, MAX_FEXT_SIZE + MAX_FNAME_SIZE + MAX_FPATH_SIZE)) >= MAX_FEXT_SIZE +
      MAX_FNAME_SIZE + MAX_FPATH_SIZE)
00048     {
00049         FMC_makeMsg(err_path, 4, "ERROR : ", "In function : ", __func__, ". The provided path is too
      long (or doesn't contain any nul-character).");
00050         FMC_printBrightRedError(stderr, err_path);
00051         return NULL;
00052     }
00053     char path_cpy[MAX_FEXT_SIZE + MAX_FNAME_SIZE + MAX_FPATH_SIZE];
00054     strncpy(path_cpy, path, path_len+1);
00055     if (strcmp(path_cpy, path) != 0)
00056     {
00057         FMC_makeMsg(err_path2, 4, "FMC INTERNAL ERROR : ", "In function : ", __func__, ". strncpy
      failure.");
00058         FMC_printBrightRedError(stderr, err_path2);
00059         return NULL;
00060     }
00061
00062     char *last_sep = NULL;
00063     last_sep = strrchr(path_cpy, (int)'/');
00064     if (!strrchr(path_cpy, (int)'/') && !strrchr(path_cpy, (int)'\\'))
00065     {
00066         filename = strncpy(filename, path_cpy, path_len+1);
00067         if (strcmp(filename, path_cpy) != 0)
00068         {
00069             FMC_makeMsg(err_path3, 4, "FMC INTERNAL ERROR : ", "In function : ", __func__, ". strncpy
      failure.");
00070             FMC_printBrightRedError(stderr, err_path3);
00071             return NULL;
00072         }
00073         return filename;
00074     }
```

```
00075     else if (strrchr(path_cpy, (int)'\\') && strrchr(path_cpy, (int)'/'))
00076     {
00077         if (FMC_getDebugState())
00078         {
00079             FMC_makeMsg(err_path5, 4, "ERROR : ", "In function : ", __func__, ". The path contains
      both '/' and '\\'.");
00080             FMC_printBrightRedError(stderr, err_path5);
00081         }
00082         return NULL;
00083     }
00084     else if (last_sep)
00085     {
00086         filename = strncpy(filename, last_sep+1, path_len+1);
00087         if (strcmp(filename, last_sep+1) != 0)
00088         {
00089             FMC_makeMsg(err_path4, 4, "FMC INTERNAL ERROR : ", "In function : ", __func__, ". strncpy
      failure.");
00090             FMC_printBrightRedError(stderr, err_path4);
00091             return NULL;
00092         }
00093         return filename;
00094     }
00095     else
00096     {
00097         last_sep = strrchr(path_cpy, (int)'\\');
00098         filename = strncpy(filename, last_sep+1, path_len+1);
00099         if (strcmp(filename, last_sep+1) != 0)
00100         {
00101             FMC_makeMsg(err_path4, 4, "FMC INTERNAL ERROR : ", "In function : ", __func__, ". strncpy
      failure.");
00102             FMC_printBrightRedError(stderr, err_path4);
00103             return NULL;
00104         }
00105         return filename;
00106     }
00107 }
00108
00109 FMC_SHARED FMC_FUNC_HOT FMC_FUNC_WARN_UNUSED_RESULT FMC_FUNC_NONNULL(1, 2) char *FMC_cutFilename(const
      char * restrict const path, char * restrict dirs, const size_t dirs_size)
00110 {
00111     #pragma GCC diagnostic ignored "-Wnonnull-compare" // get an error at compile time without this
      (because of attribute nonnull defined on linux)
00112     if (!path || !dirs)
00113     {
00114         if (FMC_getDebugState())
00115         {
00116             FMC_makeMsg(err_null, 4, "ERROR : ", "In function : ", __func__, ". At least one of the
      provided pointers is NULL.");
00117             FMC_printBrightRedError(stderr, err_null);
00118         }
00119         return NULL;
00120     }
00121     #pragma GCC diagnostic pop
00122     memset(dirs, 0, dirs_size);
00123     size_t path_len = 0;
00124     if ((path_len = strnlen(path, MAX_FEXT_SIZE + MAX_FNAME_SIZE + MAX_FPATH_SIZE)) >= MAX_FEXT_SIZE +
      MAX_FNAME_SIZE + MAX_FPATH_SIZE)
00125     {
00126         FMC_makeMsg(err_path, 4, "ERROR : ", "In function : ", __func__, ". The provided path is too
      long (or doesn't contain any nul-character).");
00127         FMC_printBrightRedError(stderr, err_path);
00128         return NULL;
00129     }
00130     char path_cpy[MAX_FEXT_SIZE + MAX_FNAME_SIZE + MAX_FPATH_SIZE];
00131     strncpy(path_cpy, path, path_len+1);
00132     if (strcmp(path_cpy, path) != 0)
00133     {
00134         FMC_makeMsg(err_path2, 4, "FMC INTERNAL ERROR : ", "In function : ", __func__, ". strncpy
      failure.");
00135         FMC_printBrightRedError(stderr, err_path2);
00136         return NULL;
00137     }
00138     char *last_sep = NULL;
00139     if ((last_sep = strrchr(path_cpy, (int)'/')) && (last_sep = strrchr(path_cpy, (int)'\\')))
00140     {
00141         if (FMC_getDebugState())
00142         {
00143             FMC_makeMsg(err_path5, 4, "ERROR : ", "In function : ", __func__, ". The path contains
      both '/' and '\\'.");
00144             FMC_printBrightRedError(stderr, err_path5);
00145         }
00146         return NULL;
00147     }
00148
00149     else if ((last_sep = strrchr(path_cpy, (int)'/')))
00150     {
00151         strncpy(dirs, path_cpy, strnlen(path_cpy, path_len) - strnlen(last_sep, path_len) + 1);
```

```
00152         dirs[strnlen(path_cpy, path_len) - strnlen(last_sep, path_len) + 1] = '\0';
00153         return dirs;
00154     }
00155 
00156     else if ((last_sep = strrchr(path_cpy, (int)'\\')))
00157     {
00158         strncpy(dirs, path_cpy, strnlen(path_cpy, path_len) - strnlen(last_sep, path_len) + 1);
00159         dirs[strnlen(path_cpy, path_len) - strnlen(last_sep, path_len) + 1] = '\0';
00160         return dirs;
00161     }
00162     else if ((last_sep = strrchr(path_cpy, (int)'~')))
00163     {
00164         strncpy(dirs, "~/", 4);
00165         if (strcmp(dirs, "~/") != 0)
00166         {
00167             FMC_makeMsg(err_path4, 4, "FMC INTERNAL ERROR : ", "In function : ", __func__, ". strncpy
      failure.");
00168             FMC_printBrightRedError(stderr, err_path4);
00169             return NULL;
00170         }
00171         return dirs;
00172     }
00173     else
00174     {
00175         dirs = strncpy(dirs, "./", 4);
00176         if (strcmp(dirs, "./") != 0)
00177         {
00178             FMC_makeMsg(err_path3, 4, "FMC INTERNAL ERROR : ", "In function : ", __func__, ". strncpy
      failure.");
00179             FMC_printBrightRedError(stderr, err_path3);
00180             return NULL;
00181         }
00182         return dirs;
00183     }
00184 
00185 }
00186 
00187 FMC_SHARED FMC_FUNC_HOT FMC_FUNC_WARN_UNUSED_RESULT FMC_FUNC_NONNULL(1, 2) char
      *FMC_getExtension(const char * restrict const path, char * restrict ext, const size_t ext_size)
00188 {
00189     #pragma GCC diagnostic ignored "-Wnonnull-compare" // get an error at compile time without this
      (because of attribute nonnull)
00190     if (!path || !ext)
00191     {
00192         if (FMC_getDebugState())
00193         {
00194             FMC_makeMsg(err_null, 4, "ERROR : ", "In function : ", __func__, ". At least one of the
      provided pointers is NULL.");
00195             FMC_printBrightRedError(stderr, err_null);
00196         }
00197         return NULL;
00198     }
00199     #pragma GCC diagnostic pop
00200     memset(ext, 0, ext_size);
00201     char name[MAX_FNAME_SIZE];
00202     if (!FMC_extractFilename(path, name, MAX_FNAME_SIZE))
00203     {
00204         FMC_makeMsg(err_path6, 4, "FMC INTERNAL ERROR : ", "In function : ", __func__, ".
      FMC_extractFilename call failed.");
00205         FMC_printBrightRedError(stderr, err_path6);
00206         return NULL;
00207     }
00208 
00209     if (!strchr(name, (int)'.')) {strncpy(ext, "", 2); return ext;} // Could be modified (?)
00210     else
00211     {
00212         char *last_dot = NULL;
00213         if ((last_dot = strrchr(name, (int)'.')))
00214         {
00215             strncpy(ext, last_dot, strnlen(last_dot+1, MAX_FEXT_SIZE)+1);
00216             return ext;
00217         }
00218         else
00219         {
00220             FMC_makeMsg(err_path7, 4, "FMC INTERNAL ERROR : ", "In function : ", __func__, ". strrchr
      call failed.");
00221             FMC_printBrightRedError(stderr, err_path7);
00222             return NULL;
00223         }
00224     }
00225 }
```

3.34 src/FMC.h File Reference

Include dependency graph for FMC.h:



Macros

- #define FMC_H

3.34.1 Macro Definition Documentation

3.34.1.1 FMC_H

```
#define FMC_H
```

Definition at line 30 of file FMC.h.

3.35 FMC.h

Go to the documentation of this file.

```
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00011 copies of the Software, and to permit persons to whom the Software is
00012 furnished to do so, subject to the following conditions:
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00017 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
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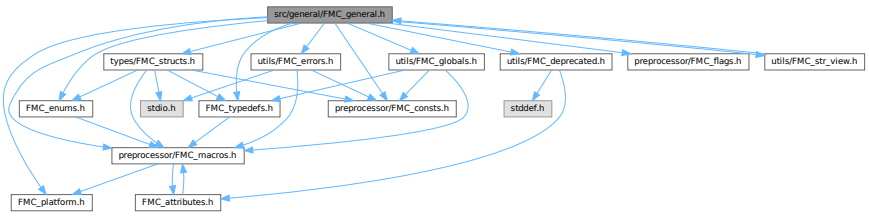
00019 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
00020 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
00021 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
```

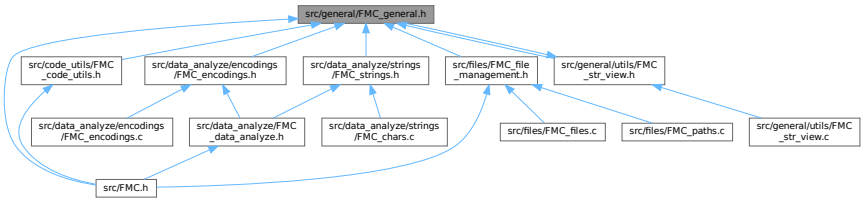
```
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
00027 #pragma once
00028
00029 #ifndef FMC_H
00030 #define FMC_H
00031
00032 // includes
00033 #include "general/FMC_general.h"
00034 #include "code_utils/FMC_code_utils.h"
00035 #include "files/FMC_file_management.h"
00036 #include "data_analyze/FMC_data_analyze.h"
00037 #include "cpp/FMC_wrapper.h"
00038
00039
00040
00041
00042 #endif // FMC_H
```

3.36 src/general/FMC_general.h File Reference

Include dependency graph for FMC_general.h:



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



Macros

- #define FMC_DATA_H

3.36.1 Macro Definition Documentation

3.36.1.1 FMC_DATA_H

```
#define FMC_DATA_H
```

Definition at line 30 of file FMC_general.h.

3.37 FMC_general.h

Go to the documentation of this file.

```
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00009 in the Software without restriction, including without limitation the rights
00010 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
00011 copies of the Software, and to permit persons to whom the Software is
00012 furnished to do so, subject to the following conditions:
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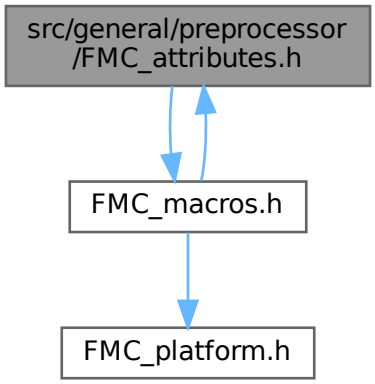
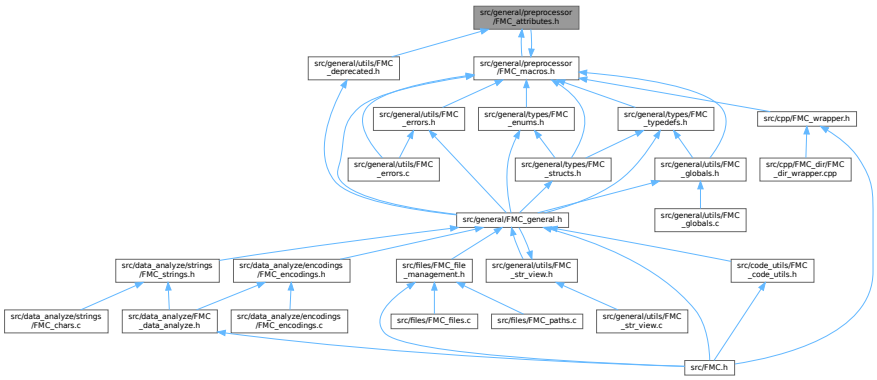
00021 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
00027 #pragma once
00028
00029 #ifndef FMC_DATA_H
00030 #define FMC_DATA_H
00031
00032
00033
00034 #include "preprocessor/FMC_macros.h"
00035 #include "preprocessor/FMC_platform.h"
00036 #include "preprocessor/FMC_consts.h"
00037 #include "types/FMC_structs.h"
00038 #include "preprocessor/FMC_flags.h"
00039 #include "types/FMC_typedefs.h"
00040 #include "types/FMC_enums.h"
00041 #include "utils/FMC_errors.h"
00042 #include "utils/FMC_globals.h"
00043 #include "utils/FMC_deprecated.h"
00044 #include "utils/FMC_str_view.h"
00045
00046 #endif /* FMC_DATA_H */
```

3.38 src/general/preprocessor/FMC_attributes.h File Reference

Include dependency graph for FMC_attributes.h:



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



3.39 FMC_attributes.h

Go to the documentation of this file.

```
00001 /*
00002
00003 MIT License
00004
00005 Copyright (c) 2023 Axel PASCON
00006
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00008 of this software and associated documentation files (the "Software"), to deal
00009 in the Software without restriction, including without limitation the rights
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00011 copies of the Software, and to permit persons to whom the Software is
00012 furnished to do so, subject to the following conditions:
00013
00014 The above copyright notice and this permission notice shall be included in all
```

```
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00016
00017 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
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00019 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
00020 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
00021 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
00027 #ifndef FMC_ATTRIBUTES_H
00028 #define FMC_ATTRIBUTES_H
00029
00030 #include "FMC_macros.h"
00031
00032
00033 #ifndef FMC_FUNC_ATTRIBUTES
00034     #define FMC_FUNC_ATTRIBUTES 1
00035
00036     #ifndef FMC_FUNC_ACCESS
00037         #define FMC_FUNC_ACCESS(access_type, ...) __attribute__((access(access_type, __VA_ARGS__)))
00038     #endif // FMC_FUNC_ACCESS
00039
00040     #ifndef FMC_FUNC_ALIAS
00041         #define FMC_FUNC_ALIAS(aliased) __attribute__((alias(FMC_STRINGIZE(aliased))))
00042     #endif // FMC_FUNC_ALIAS
00043
00044     #ifndef FMC_FUNC_ALWAYS_INLINE
00045         #define FMC_FUNC_ALWAYS_INLINE __attribute__((always_inline))
00046     #endif // FMC_FUNC_ALWAYS_INLINE
00047
00048     #ifndef FMC_FUNC_COLD
00049         #define FMC_FUNC_COLD __attribute__((cold))
00050     #endif // FMC_FUNC_COLD
00051
00052     #ifndef FMC_FUNC_CONST
00053         #define FMC_FUNC_CONST __attribute__((const))
00054     #endif // FMC_FUNC_CONST
00055
00056     #ifndef FMC_FUNC_CONSTRUCTOR
00057         #define FMC_FUNC_CONSTRUCTOR(priority) __attribute__((constructor(priority)))
00058     #endif // FMC_FUNC_CONSTRUCTOR
00059
00060     #ifndef FMC_FUNC_DESTRUCTOR
00061         #define FMC_FUNC_DESTRUCTOR(priority) __attribute__((destructor(priority)))
00062     #endif // FMC_FUNC_DESTRUCTOR
00063
00064     #ifndef FMC_FUNC_COPY
00065         #define FMC_FUNC_COPY(func) __attribute__((copy(func)))
00066     #endif // FMC_FUNC_COPY
00067
00068     #ifndef FMC_FUNC_DEPRECATED
00069         #define FMC_FUNC_DEPRECATED(msg) __attribute__((deprecated(FMC_STRINGIZE(msg))))
00070     #endif // FMC_FUNC_DEPRECATED
00071
00072     #ifndef FMC_FUNC_UNAVAILABLE
00073         #define FMC_FUNC_UNAVAILABLE(msg) __attribute__((unavailable(FMC_STRINGIZE(msg))))
00074     #endif // FMC_FUNC_UNAVAILABLE
00075
00076     #ifndef FMC_FUNC_ERROR
00077         #define FMC_FUNC_ERROR(msg) __attribute__((error(FMC_STRINGIZE(msg))))
00078     #endif // FMC_FUNC_ERROR
00079
00080     #ifndef FMC_FUNC_WARNING
00081         #define FMC_FUNC_WARNING(msg) __attribute__((warning(FMC_STRINGIZE(msg))))
00082     #endif // FMC_FUNC_WARNING
00083
00084     #ifndef FMC_FUNC_EXTERNALLY_VISIBLE
00085         #define FMC_FUNC_EXTERNALLY_VISIBLE __attribute__((externally_visible))
00086     #endif // FMC_FUNC_EXTERNALLY_VISIBLE
00087
00088     #ifndef FMC_FUNC_FLATTEN
00089         #define FMC_FUNC_FLATTEN __attribute__((flatten))
00090     #endif // FMC_FUNC_FLATTEN
00091
00092     #ifndef FMC_FUNC_FORMAT
00093         #define FMC_FUNC_FORMAT(func_fmt, fmt_pos, args_pos) __attribute__((format(func_fmt, fmt_pos,
    args_pos)))
00094     #endif // FMC_FUNC_FORMAT
00095
00096     #ifndef FMC_FUNC_HOT
00097         #define FMC_FUNC_HOT __attribute__((hot))
00098     #endif // FMC_FUNC_HOT
00099
00100     #ifndef FMC_FUNC_MALLOC
```

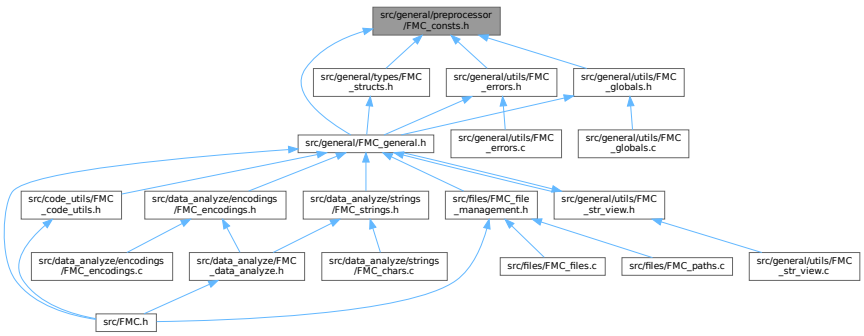
```
00101         #define FMC_FUNC_MALLOC(...) __attribute__((malloc(__VA_ARGS__)))
00102     #endif // FMC_FUNC_MALLOC
00103
00104     #ifndef FMC_FUNC_NONNULL
00105         #if !(defined(FMC_COMPILING_ON_WINDOWS) || defined(FMC_COMPILING_ON_MINGW))
00106             #define FMC_FUNC_NONNULL(...) __attribute__((nonnull(__VA_ARGS__)))
00107         #else
00108             #define FMC_FUNC_NONNULL(...)
00109         #endif
00110     #endif // FMC_FUNC_NONNULL
00111
00112     #ifndef FMC_FUNC_NORETURN
00113         #define FMC_FUNC_NORETURN __attribute__((noreturn))
00114     #endif // FMC_FUNC_NORETURN
00115
00116     #ifndef FMC_FUNC_OPTIMIZE
00117         #define FMC_FUNC_OPTIMIZE(level) __attribute__((optimize(FMC_STRINGIZE(level))))
00118     #endif // FMC_FUNC_OPTIMIZE
00119
00120     #ifndef FMC_FUNC_PURE
00121         #define FMC_FUNC_PURE __attribute__((pure))
00122     #endif // FMC_FUNC_PURE
00123
00124     #ifndef FMC_FUNC_RETURNS_NONNULL
00125         #define FMC_FUNC_RETURNS_NONNULL __attribute__((returns_nonnull))
00126     #endif // FMC_FUNC_RETURNS_NONNULL
00127
00128     #ifndef FMC_FUNC_SECTION
00129         #define FMC_FUNC_SECTION(section_name) __attribute__((section(FMC_STRINGIZE(section_name))))
00130     #endif // FMC_FUNC_SECTION
00131
00132     #ifndef FMC_FUNC_SENTINEL
00133         #define FMC_FUNC_SENTINEL(pos) __attribute__((sentinel(pos)))
00134     #endif // FMC_FUNC_SENTINEL
00135
00136     #ifndef FMC_FUNC_STACK_PROTECT
00137         #define FMC_FUNC_STACK_PROTECT __attribute__((stack_protect))
00138     #endif // FMC_FUNC_STACK_PROTECT
00139
00140     #ifndef FMC_FUNC_SYMVER
00141         #define FMC_FUNC_SYMVER(name, major, minor, patch)
      __attribute__((symver(FMC_STRINGIZE(name@FMC_CONCAT_4(v,major,minor,patch)))))
00142     #endif // FMC_FUNC_SYMVER
00143
00144     #ifndef FMC_FUNC_UNUSED
00145         #define FMC_FUNC_UNUSED __attribute__((unused))
00146     #endif // FMC_FUNC_UNUSED
00147
00148     #ifndef FMC_FUNC_USED
00149         #define FMC_FUNC_USED __attribute__((used))
00150     #endif // FMC_FUNC_USED
00151
00152     #ifndef FMC_FUNC_VISIBILITY
00153         #define FMC_FUNC_VISIBILITY(visibility_type)
      __attribute__((visibility(FMC_STRINGIZE(visibility_type))))
00154     #endif // FMC_FUNC_VISIBILITY
00155
00156     #ifndef FMC_FUNC_WARN_UNUSED_RESULT
00157         #define FMC_FUNC_WARN_UNUSED_RESULT __attribute__((warn_unused_result))
00158     #endif // FMC_FUNC_WARN_UNUSED_RESULT
00159
00160     #ifndef FMC_FUNC_WEAK
00161         #define FMC_FUNC_WEAK __attribute__((weak))
00162     #endif // FMC_FUNC_WEAK
00163
00164     #ifndef FMC_FUNC_WEAK_REF
00165         #define FMC_FUNC_WEAK_REF(...) __attribute__((weakref(FMC_STRINGIZE(__VA_ARGS__))))
00166     #endif // FMC_FUNC_WEAK_REF
00167
00168     #ifndef FMC_FUNC_ZERO_REGISTERS
00169         #define FMC_FUNC_ZERO_REGISTERS(to_zero)
      __attribute__((zero_call_used_regs(FMC_STRINGIZE(to_zero))))
00170     #endif // FMC_FUNC_ZERO_REGISTERS
00171
00172
00173
00174     #ifndef FMC_FUNC_STRONG_ALIAS
00175         #define FMC_FUNC_STRONG_ALIAS(func_name, aliased) FMC_FUNC_ALIAS(aliased)
      FMC_FUNC_COPY(aliased) __typeof__(aliased) func_name
00176     #endif // FMC_FUNC_STRONG_ALIAS
00177
00178     #ifndef FMC_FUNC_INLINE
00179         #define FMC_FUNC_INLINE inline FMC_FUNC_ALWAYS_INLINE
00180     #endif // FMC_FUNC_INLINE
00181
00182     #ifndef FMC_FUNC_PRINTF_FMT
00183         #define FMC_FUNC_PRINTF_FMT(fmt_pos, args_pos) FMC_FUNC_FORMAT(printf, fmt_pos, args_pos)
```

```
00184     #endif // FMC_FUNC_PRINTF_FMT
00185
00186 #endif //FMC_FUNC_ATTRIBUTES
00187
00188 #ifndef FMC_VAR_ATTRIBUTES
00189     #define FMC_VAR_ATTRIBUTES
00190
00191     #ifndef FMC_VAR_ALIAS
00192         #define FMC_VAR_ALIAS(aliased) __attribute__((alias(FMC_STRINGIZE(aliased))))
00193     #endif // FMC_VAR_ALIAS
00194
00195     #ifndef FMC_VAR_CLEANUP
00196         #define FMC_VAR_CLEANUP(func_name) __attribute__((cleanup(func_name)))
00197     #endif // FMC_VAR_CLEANUP
00198
00199     #ifndef FMC_VAR_COMMON
00200         #define FMC_VAR_COMMON __attribute__((common))
00201     #endif // FMC_VAR_COMMON
00202
00203     #ifndef FMC_VAR_NO_COMMON
00204         #define FMC_VAR_NO_COMMON __attribute__((nocommon))
00205     #endif // FMC_VAR_NO_COMMON
00206
00207     #ifndef FMC_VAR_COPY
00208         #define FMC_VAR_COPY(var) __attribute__((copy(var)))
00209     #endif // FMC_VAR_COPY
00210
00211     #ifndef FMC_VAR_DEPRECATED
00212         #define FMC_VAR_DEPRECATED(msg) __attribute__((deprecated(FMC_STRINGIZE(msg))))
00213     #endif // FMC_VAR_DEPRECATED
00214
00215     #ifndef FMC_VAR_UNAVAILABLE
00216         #define FMC_VAR_UNAVAILABLE(msg) __attribute__((unavailable(FMC_STRINGIZE(msg))))
00217     #endif // FMC_VAR_UNAVAILABLE
00218
00219     #ifndef FMC_VAR_MACH_MODE
00220         #define FMC_VAR_MACH_MODE(mode) __attribute__((mode(mode)))
00221     #endif // FMC_VAR_MACH_MODE
00222
00223     #ifndef FMC_VAR_NON_STRING
00224         #define FMC_VAR_NON_STRING __attribute__((nonstring))
00225     #endif // FMC_VAR_NON_STRING
00226
00227     #ifndef FMC_VAR_SECTION
00228         #define FMC_VAR_SECTION(section_name) __attribute__((section(FMC_STRINGIZE(section_name))))
00229     #endif // FMC_VAR_SECTION
00230
00231     #ifndef FMC_VAR_UNUSED
00232         #define FMC_VAR_UNUSED __attribute__((unused))
00233     #endif // FMC_VAR_UNUSED
00234
00235     #ifndef FMC_VAR_USED
00236         #define FMC_VAR_USED __attribute__((used))
00237     #endif // FMC_VAR_USED
00238
00239     #ifndef FMC_VAR_UNINITIALIZED
00240         #define FMC_VAR_UNINITIALIZED __attribute__((uninitialized))
00241     #endif // FMC_VAR_UNINITIALIZED
00242
00243     #ifndef FMC_VAR_VISIBILITY
00244         #define FMC_VAR_VISIBILITY(visibility_type)
    __attribute__((visibility(FMC_STRINGIZE(visibility_type))))
00245     #endif // FMC_VAR_VISIBILITY
00246
00247     #ifndef FMC_VAR_WEAK
00248         #define FMC_VAR_WEAK __attribute__((weak))
00249     #endif // FMC_VAR_WEAK
00250
00251 #endif // FMC_VAR_ATTRIBUTES
00252
00253 #ifndef FMC_TYPE_ATTRIBUTES
00254     #define FMC_TYPE_ATTRIBUTES
00255
00256     #ifndef FMC_TYPE_DEPRECATED
00257         #define FMC_TYPE_DEPRECATED(msg) __attribute__((deprecated(FMC_STRINGIZE(msg))))
00258     #endif // FMC_TYPE_DEPRECATED
00259
00260     #ifndef FMC_TYPE_UNAVAILABLE
00261         #define FMC_TYPE_UNAVAILABLE(msg) __attribute__((unavailable(FMC_STRINGIZE(msg))))
00262     #endif // FMC_TYPE_UNAVAILABLE
00263
00264     #ifndef FMC_TYPE_MACH_MODE
00265         #define FMC_TYPE_MACH_MODE(mode) __attribute__((mode(mode)))
00266     #endif // FMC_TYPE_MACH_MODE
00267
00268     #ifndef FMC_TYPE_UNUSED
00269         #define FMC_TYPE_UNUSED __attribute__((unused))
```

```
00270     #endif // FMC_TYPE_UNUSED
00271
00272     #ifndef FMC_TYPE_VISIBILITY
00273         #define FMC_TYPE_VISIBILITY(visibility_type)
    __attribute__((visibility(FMC_STRINGIZE(visibility_type))))
00274     #endif // FMC_TYPE_VISIBILITY
00275
00276 #endif // FMC_TYPE_ATTRIBUTES
00277
00278 #ifndef FMC_LABEL_ATTRIBUTES
00279     #define FMC_LABEL_ATTRIBUTES
00280
00281     #ifndef FMC_LABEL_UNUSED
00282         #define FMC_LABEL_UNUSED __attribute__((unused))
00283     #endif // FMC_LABEL_UNUSED
00284
00285     #ifndef FMC_LABEL_HOT
00286         #define FMC_LABEL_HOT __attribute__((hot))
00287     #endif // FMC_LABEL_HOT
00288
00289     #ifndef FMC_LABEL_COLD
00290         #define FMC_LABEL_COLD __attribute__((cold))
00291     #endif // FMC_LABEL_COLD
00292
00293 #endif // FMC_LABEL_ATTRIBUTES
00294
00295 #ifndef FMC_ENUM_ATTRIBUTES
00296     #define FMC_ENUM_ATTRIBUTES
00297
00298     #ifndef FMC_ENUM_DEPRECATED
00299         #define FMC_ENUM_DEPRECATED(msg) __attribute__((deprecated(FMC_STRINGIZE(msg))))
00300     #endif // FMC_ENUM_DEPRECATED
00301
00302     #ifndef FMC_ENUM_UNAVAILABLE
00303         #define FMC_ENUM_UNAVAILABLE(msg) __attribute__((unavailable(FMC_STRINGIZE(msg))))
00304     #endif // FMC_ENUM_UNAVAILABLE
00305
00306 #endif // FMC_ENUM_ATTRIBUTES
00307
00308 #ifndef FMC_STMT_ATTRIBUTES
00309     #define FMC_STMT_ATTRIBUTES
00310
00311     #ifndef FMC_STMT_FALLTHROUGH
00312         #define FMC_STMT_FALLTHROUGH __attribute__((fallthrough))
00313     #endif // FM_STMT_FALLTHROUGH
00314
00315 #endif // FMC_STMT_ATTRIBUTES
00316
00317 #endif // FMC_ATTRIBUTES_H
```

3.40 src/general/preprocessor/FMC_consts.h File Reference

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



Macros

- #define BG_BLACK "\x1b[40m"

- #define BG_BLUE "\x1b[44m"
- #define BG_BRIGHT_BLACK "\x1b[100m"
- #define BG_BRIGHT_BLUE "\x1b[104m"
- #define BG_BRIGHT_CYAN "\x1b[106m"
- #define BG_BRIGHT_GREEN "\x1b[102m"
- #define BG_BRIGHT_MAGENTA "\x1b[105m"
- #define BG_BRIGHT_RED "\x1b[101m"
- #define BG_BRIGHT_WHITE "\x1b[107m"
- #define BG_BRIGHT_YELLOW "\x1b[103m"
- #define BG_CYAN "\x1b[46m"
- #define BG_GREEN "\x1b[42m"
- #define BG_MAGENTA "\x1b[45m"
- #define BG_RED "\x1b[41m"
- #define BG_WHITE "\x1b[47m"
- #define BG_YELLOW "\x1b[43m"
- #define False 0
- #define FG_BLACK "\x1b[30m"
- #define FG_BLUE "\x1b[34m"
- #define FG_BRIGHT_BLACK "\x1b[90m"
- #define FG_BRIGHT_BLUE "\x1b[94m"
- #define FG_BRIGHT_CYAN "\x1b[96m"
- #define FG_BRIGHT_GREEN "\x1b[92m"
- #define FG_BRIGHT_MAGENTA "\x1b[95m"
- #define FG_BRIGHT_RED "\x1b[91m"
- #define FG_BRIGHT_WHITE "\x1b[97m"
- #define FG_BRIGHT_YELLOW "\x1b[93m"
- #define FG_CYAN "\x1b[36m"
- #define FG_GREEN "\x1b[32m"
- #define FG_MAGENTA "\x1b[35m"
- #define FG_RED "\x1b[31m"
- #define FG_WHITE "\x1b[37m"
- #define FG_YELLOW "\x1b[33m"
- #define FMC_BOOLEANS
- #define FMC_CONSTS_H
- #define FMC_MAX_PATH_COMPONENTS_SIZE
- #define FMC_STYLES
- #define MAX_FEXT_SIZE 50
- #define MAX_FNAME_SIZE 256
- #define MAX_FPATH_SIZE 512
- #define RESET "\x1b[0m"
- #define True 1
- #define TXT_BLINK "\x1b[5m"
- #define TXT_BOLD "\x1b[1m"
- #define TXT_DIM "\x1b[2m"
- #define TXT_HIDDEN "\x1b[8m"
- #define TXT_REVERSE "\x1b[7m"
- #define TXT_UNDERLINED "\x1b[4m"

3.40.1 Macro Definition Documentation

3.40.1.1 BG_BLACK

```
#define BG_BLACK "\x1b[40m"
```

Definition at line 66 of file FMC_consts.h.

3.40.1.2 BG_BLUE

```
#define BG_BLUE "\x1b[44m"
```

Definition at line 70 of file FMC_consts.h.

3.40.1.3 BG_BRIGHT_BLACK

```
#define BG_BRIGHT_BLACK "\x1b[100m"
```

Definition at line 74 of file FMC_consts.h.

3.40.1.4 BG_BRIGHT_BLUE

```
#define BG_BRIGHT_BLUE "\x1b[104m"
```

Definition at line 78 of file FMC_consts.h.

3.40.1.5 BG_BRIGHT_CYAN

```
#define BG_BRIGHT_CYAN "\x1b[106m"
```

Definition at line 80 of file FMC_consts.h.

3.40.1.6 BG_BRIGHT_GREEN

```
#define BG_BRIGHT_GREEN "\x1b[102m"
```

Definition at line 76 of file FMC_consts.h.

3.40.1.7 BG_BRIGHT_MAGENTA

```
#define BG_BRIGHT_MAGENTA "\x1b[105m"
```

Definition at line 79 of file FMC_consts.h.

3.40.1.8 BG_BRIGHT_RED

```
#define BG_BRIGHT_RED "\x1b[101m"
```

Definition at line 75 of file FMC_consts.h.

3.40.1.9 BG_BRIGHT_WHITE

```
#define BG_BRIGHT_WHITE "\x1b[107m"
```

Definition at line 81 of file FMC_consts.h.

3.40.1.10 BG_BRIGHT_YELLOW

```
#define BG_BRIGHT_YELLOW "\x1b[103m"
```

Definition at line 77 of file FMC_consts.h.

3.40.1.11 BG_CYAN

```
#define BG_CYAN "\x1b[46m"
```

Definition at line 72 of file FMC_consts.h.

3.40.1.12 BG_GREEN

```
#define BG_GREEN "\x1b[42m"
```

Definition at line 68 of file FMC_consts.h.

3.40.1.13 BG_MAGENTA

```
#define BG_MAGENTA "\x1b[45m"
```

Definition at line 71 of file FMC_consts.h.

3.40.1.14 BG_RED

```
#define BG_RED "\x1b[41m"
```

Definition at line 67 of file FMC_consts.h.

3.40.1.15 BG_WHITE

```
#define BG_WHITE "\x1b[47m"
```

Definition at line 73 of file FMC_consts.h.

3.40.1.16 BG_YELLOW

```
#define BG_YELLOW "\x1b[43m"
```

Definition at line 69 of file FMC_consts.h.

3.40.1.17 False

```
#define False 0
```

Definition at line 99 of file FMC_consts.h.

3.40.1.18 FG_BLACK

```
#define FG_BLACK "\x1b[30m"
```

Definition at line 49 of file FMC_consts.h.

3.40.1.19 FG_BLUE

```
#define FG_BLUE "\x1b[34m"
```

Definition at line 53 of file FMC_consts.h.

3.40.1.20 FG_BRIGHT_BLACK

```
#define FG_BRIGHT_BLACK "\x1b[90m"
```

Definition at line 57 of file FMC_consts.h.

3.40.1.21 FG_BRIGHT_BLUE

```
#define FG_BRIGHT_BLUE "\x1b[94m"
```

Definition at line 61 of file FMC_consts.h.

3.40.1.22 FG_BRIGHT_CYAN

```
#define FG_BRIGHT_CYAN "\x1b[96m"
```

Definition at line 63 of file FMC_consts.h.

3.40.1.23 FG_BRIGHT_GREEN

```
#define FG_BRIGHT_GREEN "\x1b[92m"
```

Definition at line 59 of file FMC_consts.h.

3.40.1.24 FG_BRIGHT_MAGENTA

```
#define FG_BRIGHT_MAGENTA "\x1b[95m"
```

Definition at line 62 of file FMC_consts.h.

3.40.1.25 FG_BRIGHT_RED

```
#define FG_BRIGHT_RED "\x1b[91m"
```

Definition at line 58 of file FMC_consts.h.

3.40.1.26 FG_BRIGHT_WHITE

```
#define FG_BRIGHT_WHITE "\x1b[97m"
```

Definition at line 64 of file FMC_consts.h.

3.40.1.27 FG_BRIGHT_YELLOW

```
#define FG_BRIGHT_YELLOW "\x1b[93m"
```

Definition at line 60 of file FMC_consts.h.

3.40.1.28 FG_CYAN

```
#define FG_CYAN "\x1b[36m"
```

Definition at line 55 of file FMC_consts.h.

3.40.1.29 FG_GREEN

```
#define FG_GREEN "\x1b[32m"
```

Definition at line 51 of file FMC_consts.h.

3.40.1.30 FG_MAGENTA

```
#define FG_MAGENTA "\x1b[35m"
```

Definition at line 54 of file FMC_consts.h.

3.40.1.31 FG_RED

```
#define FG_RED "\x1b[31m"
```

Definition at line 50 of file FMC_consts.h.

3.40.1.32 FG_WHITE

```
#define FG_WHITE "\x1b[37m"
```

Definition at line 56 of file FMC_consts.h.

3.40.1.33 FG_YELLOW

```
#define FG_YELLOW "\x1b[33m"
```

Definition at line 52 of file FMC_consts.h.

3.40.1.34 FMC_BOOLEANS

```
#define FMC_BOOLEANS
```

Definition at line 97 of file FMC_consts.h.

3.40.1.35 FMC_CONSTS_H

```
#define FMC_CONSTS_H
```

Definition at line 30 of file FMC_consts.h.

3.40.1.36 FMC_MAX_PATH_COMPONENTS_SIZE

```
#define FMC_MAX_PATH_COMPONENTS_SIZE
```

Definition at line 38 of file FMC_consts.h.

3.40.1.37 FMC_STYLES

```
#define FMC_STYLES
```

Definition at line 45 of file FMC_consts.h.

3.40.1.38 MAX_FEXT_SIZE

```
#define MAX_FEXT_SIZE 50
```

Definition at line 39 of file FMC_consts.h.

3.40.1.39 MAX_FNAME_SIZE

```
#define MAX_FNAME_SIZE 256
```

Definition at line 40 of file FMC_consts.h.

3.40.1.40 MAX_FPATH_SIZE

```
#define MAX_FPATH_SIZE 512
```

Definition at line 41 of file FMC_consts.h.

3.40.1.41 RESET

```
#define RESET "\x1b[0m"
```

Definition at line 47 of file FMC_consts.h.

3.40.1.42 True

```
#define True 1
```

Definition at line 98 of file FMC_consts.h.

3.40.1.43 TXT_BLINK

```
#define TXT_BLINK "\x1b[5m"
```

Definition at line 86 of file FMC_consts.h.

3.40.1.44 TXT_BOLD

```
#define TXT_BOLD "\x1b[1m"
```

Definition at line 83 of file FMC_consts.h.

3.40.1.45 TXT_DIM

```
#define TXT_DIM "\x1b[2m"
```

Definition at line 84 of file FMC_consts.h.

3.40.1.46 TXT_HIDDEN

```
#define TXT_HIDDEN "\x1b[8m"
```

Definition at line 88 of file FMC_consts.h.

3.40.1.47 TXT_REVERSE

```
#define TXT_REVERSE "\x1b[7m"
```

Definition at line 87 of file FMC_consts.h.

3.40.1.48 TXT_UNDERLINED

```
#define TXT_UNDERLINED "\x1b[4m"
```

Definition at line 85 of file FMC_consts.h.

3.41 FMC_consts.h

Go to the documentation of this file.

```
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00002
00003 MIT License
00004
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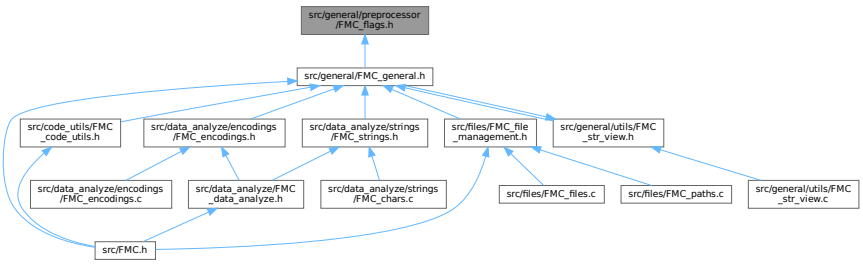
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
00027 #pragma once
00028
00029 #ifndef FMC_CONSTS_H
00030 #define FMC_CONSTS_H
00031
00032 #if defined(FMC_MAX_PATH_COMPONENTS_SIZE) || defined(MAX_FEXT_SIZE) || defined(MAX_FNAME_SIZE) ||
      defined(MAX_FPATH_SIZE)
00033     #undef FMC_MAX_PATH_COMPONENTS_SIZE
00034     #undef MAX_FEXT_SIZE
00035     #undef MAX_FNAME_SIZE
00036     #undef MAX_FPATH_SIZE
00037 #endif
00038 #define FMC_MAX_PATH_COMPONENTS_SIZE
00039 #define MAX_FEXT_SIZE 50
00040 #define MAX_FNAME_SIZE 256
00041 #define MAX_FPATH_SIZE 512
00042
00043
00044 #ifndef FMC_STYLES
00045     #define FMC_STYLES
00046
00047     #define RESET "\x1b[0m"
00048
00049     #define FG_BLACK "\x1b[30m"
00050     #define FG_RED "\x1b[31m"
00051     #define FG_GREEN "\x1b[32m"
00052     #define FG_YELLOW "\x1b[33m"
00053     #define FG_BLUE "\x1b[34m"
00054     #define FG_MAGENTA "\x1b[35m"
00055     #define FG_CYAN "\x1b[36m"
00056     #define FG_WHITE "\x1b[37m"
00057     #define FG_BRIGHT_BLACK "\x1b[90m"
00058     #define FG_BRIGHT_RED "\x1b[91m"
00059     #define FG_BRIGHT_GREEN "\x1b[92m"
00060     #define FG_BRIGHT_YELLOW "\x1b[93m"
00061     #define FG_BRIGHT_BLUE "\x1b[94m"
00062     #define FG_BRIGHT_MAGENTA "\x1b[95m"
00063     #define FG_BRIGHT_CYAN "\x1b[96m"
00064     #define FG_BRIGHT_WHITE "\x1b[97m"
00065
00066     #define BG_BLACK "\x1b[40m"
00067     #define BG_RED "\x1b[41m"
00068     #define BG_GREEN "\x1b[42m"
00069     #define BG_YELLOW "\x1b[43m"
00070     #define BG_BLUE "\x1b[44m"
00071     #define BG_MAGENTA "\x1b[45m"
00072     #define BG_CYAN "\x1b[46m"
00073     #define BG_WHITE "\x1b[47m"
00074     #define BG_BRIGHT_BLACK "\x1b[100m"
00075     #define BG_BRIGHT_RED "\x1b[101m"
00076     #define BG_BRIGHT_GREEN "\x1b[102m"
00077     #define BG_BRIGHT_YELLOW "\x1b[103m"
00078     #define BG_BRIGHT_BLUE "\x1b[104m"
00079     #define BG_BRIGHT_MAGENTA "\x1b[105m"
00080     #define BG_BRIGHT_CYAN "\x1b[106m"
00081     #define BG_BRIGHT_WHITE "\x1b[107m"
```

```
00082
00083     #define TXT_BOLD "\x1b[1m"
00084     #define TXT_DIM "\x1b[2m"
00085     #define TXT_UNDERLINED "\x1b[4m"
00086     #define TXT_BLINK "\x1b[5m"
00087     #define TXT_REVERSE "\x1b[7m"
00088     #define TXT_HIDDEN "\x1b[8m"
00089
00090 #endif // FMC_STYLES
00091
00092 #if defined(FMC_BOOLEANS) || defined(True) || defined(False)
00093     #undef FMC_BOOLEANS
00094     #undef True
00095     #undef False
00096 #endif // FMC_BOOLEANS
00097 #define FMC_BOOLEANS
00098 #define True 1
00099 #define False 0
00100
00101 #endif // FMC_CONSTS_H
```

3.42 src/general/preprocessor/FMC_flags.h File Reference

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



Macros

- #define ASCII 64
- #define C_STR 2
- #define FMC_C_STR_VIEW 1
- #define FMC_ENCODING_FLAGS
- #define FMC_FLAGS
- #define UNKNOWN 128
- #define UTF16_BE 8
- #define UTF16_LE 4
- #define UTF32_BE 32
- #define UTF32_LE 16
- #define UTF8 1
- #define UTF8_BOM 2

3.42.1 Macro Definition Documentation

3.42.1.1 ASCII

```
#define ASCII 64
```

Definition at line 50 of file FMC_flags.h.

3.42.1.2 C_STR

```
#define C_STR 2
```

Definition at line 58 of file FMC_flags.h.

3.42.1.3 FMC_C_STR_VIEW

```
#define FMC_C_STR_VIEW 1
```

Definition at line 57 of file FMC_flags.h.

3.42.1.4 FMC_ENCODING_FLAGS

```
#define FMC_ENCODING_FLAGS
```

Definition at line 43 of file FMC_flags.h.

3.42.1.5 FMC_FLAGS

```
#define FMC_FLAGS
```

Definition at line 30 of file FMC_flags.h.

3.42.1.6 UNKNOWN

```
#define UNKNOWN 128
```

Definition at line 51 of file FMC_flags.h.

3.42.1.7 UTF16_BE

```
#define UTF16_BE 8
```

Definition at line 47 of file FMC_flags.h.

3.42.1.8 UTF16_LE

```
#define UTF16_LE 4
```

Definition at line 46 of file FMC_flags.h.

3.42.1.9 UTF32_BE

```
#define UTF32_BE 32
```

Definition at line 49 of file FMC_flags.h.

3.42.1.10 UTF32_LE

```
#define UTF32_LE 16
```

Definition at line 48 of file FMC_flags.h.

3.42.1.11 UTF8

```
#define UTF8 1
```

Definition at line 44 of file FMC_flags.h.

3.42.1.12 UTF8_BOM

```
#define UTF8_BOM 2
```

Definition at line 45 of file FMC_flags.h.

3.43 FMC_flags.h

Go to the documentation of this file.

```
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00006
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00009 in the Software without restriction, including without limitation the rights
00010 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
00011 copies of the Software, and to permit persons to whom the Software is
00012 furnished to do so, subject to the following conditions:
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00016
00017 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
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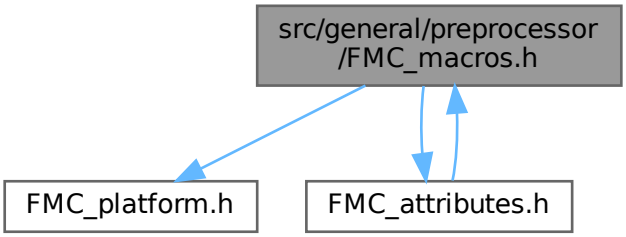
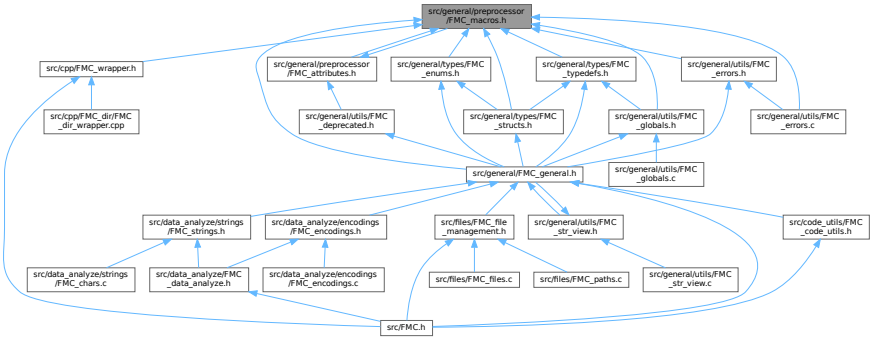
00019 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
00020 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
00021 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
00027 #pragma once
00028
00029 #ifndef FMC_FLAGS
00030 #define FMC_FLAGS
00031
00032 #if defined(FMC_ENCODING_FLAGS) || defined(UTF8) || defined(UTF8_BOM) || defined(UTF16_LE) ||
      defined(UTF16_BE) || defined(UTF32_LE) || defined(UTF32_BE) || defined(ASCII) || defined(UNKNOWN)
00033     #undef FMC_ENCODING_FLAGS
00034     #undef UTF8
00035     #undef UTF8_BOM
00036     #undef UTF16_LE
00037     #undef UTF16_BE
00038     #undef UTF32_LE
00039     #undef UTF32_BE
00040     #undef ASCII
00041     #undef UNKNOWN
00042 #endif
00043 #define FMC_ENCODING_FLAGS
00044 #define UTF8 1
00045 #define UTF8_BOM 2
00046 #define UTF16_LE 4
00047 #define UTF16_BE 8
00048 #define UTF32_LE 16
00049 #define UTF32_BE 32
00050 #define ASCII 64
00051 #define UNKNOWN 128
00052
00053 #if defined(FMC_C_STR_VIEW) || defined(C_STR)
00054     #undef C_STR
00055     #undef FMC_C_STR_VIEW
00056 #endif // FMC_CSTR || C_STR
00057 #define FMC_C_STR_VIEW 1
00058 #define C_STR 2
00059
00060 #endif // FMC_FLAGS
```

3.44 src/general/preprocessor/FMC_macros.h File Reference

Include dependency graph for FMC_macros.h:



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



Macros

- #define FMC_BEGIN_DECLS
- #define FMC_COMPILE_TIME_ERROR(msg) _Pragma(STRINGIZE(GCC error STRINGIZE(msg)))
- #define FMC_DEFER(stmt, body) do body while (0); stmt
- #define FMC_END_DECLS
- #define FMC_ERROR_CHECK(cond, todo_stmt, enable_debug, todo_before)
- #define FMC_MACROS_H
- #define FMC_MAJOR_VERSION 1
- #define FMC_MINOR_VERSION 0
- #define FMC_PATCH_VERSION 0
- #define FMC_VERSION FMC_CONCAT_5(FMC_MAJOR_VERSION, FMC_PP_POINT(), FMC_MINOR_VERSION, FMC_PP_POINT(), FMC_PATCH_VERSION)
- #define FMC_VERSION_NUMBER FMC_CONCAT_2(FMC_MAJOR_VERSION∗10000 + FMC_MINOR_VERSION∗100 + FMC_PATCH_VERSION, L)
- #define FMC_VERSION_STRING FMC_STRINGIZE_5(FMC_MAJOR_VERSION, FMC_PP_POINT(), FMC_MINOR_VERSION, FMC_PP_POINT(), FMC_PATCH_VERSION)

3.44.1 Macro Definition Documentation

3.44.1.1 FMC_BEGIN_DECLS

```
#define FMC_BEGIN_DECLS
```

Definition at line 157 of file FMC_macros.h.

3.44.1.2 FMC_COMPILE_TIME_ERROR

```
#define FMC_COMPILE_TIME_ERROR(
              msg ) _Pragma(STRINGIZE(GCC error STRINGIZE(msg)))
```

Definition at line 186 of file FMC_macros.h.

3.44.1.3 FMC_DEFER

```
#define FMC_DEFER(
              stmt,
              body ) do body while (0); stmt
```

Definition at line 99 of file FMC_macros.h.

3.44.1.4 FMC_END_DECLS

```
#define FMC_END_DECLS
```

Definition at line 158 of file FMC_macros.h.

3.44.1.5 FMC_ERROR_CHECK

```
#define FMC_ERROR_CHECK(
              cond,
              todo_stmt,
              enable_debug,
              todo_before )
```

Value:

```
    if (cond)                                                   \
    {   if(enable_debug) todo_before                            \
        todo_stmt;                                              \
    }
```

Definition at line 193 of file FMC_macros.h.

3.44.1.6 FMC_MACROS_H

```
#define FMC_MACROS_H
```

Definition at line 31 of file FMC_macros.h.

3.44.1.7 FMC_MAJOR_VERSION

```
#define FMC_MAJOR_VERSION 1
```

Definition at line 126 of file FMC_macros.h.

3.44.1.8 FMC_MINOR_VERSION

```
#define FMC_MINOR_VERSION 0
```

Definition at line 127 of file FMC_macros.h.

3.44.1.9 FMC_PATCH_VERSION

```
#define FMC_PATCH_VERSION 0
```

Definition at line 128 of file FMC_macros.h.

3.44.1.10 FMC_VERSION

```
#define FMC_VERSION FMC_CONCAT_5(FMC_MAJOR_VERSION, FMC_PP_POINT(), FMC_MINOR_VERSION, FMC_↩
PP_POINT(), FMC_PATCH_VERSION)
```

Definition at line 129 of file FMC_macros.h.

3.44.1.11 FMC_VERSION_NUMBER

```
#define FMC_VERSION_NUMBER FMC_CONCAT_2(FMC_MAJOR_VERSION*10000 + FMC_MINOR_VERSION*100 +
FMC_PATCH_VERSION, L)
```

Definition at line 131 of file FMC_macros.h.

3.44.1.12 FMC_VERSION_STRING

```
#define FMC_VERSION_STRING FMC_STRINGIZE_5(FMC_MAJOR_VERSION, FMC_PP_POINT(), FMC_MINOR_VERSION,
FMC_PP_POINT(), FMC_PATCH_VERSION)
```

Definition at line 130 of file FMC_macros.h.

3.45 FMC_macros.h

Go to the documentation of this file.

```
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00004
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00009 in the Software without restriction, including without limitation the rights
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00011 copies of the Software, and to permit persons to whom the Software is
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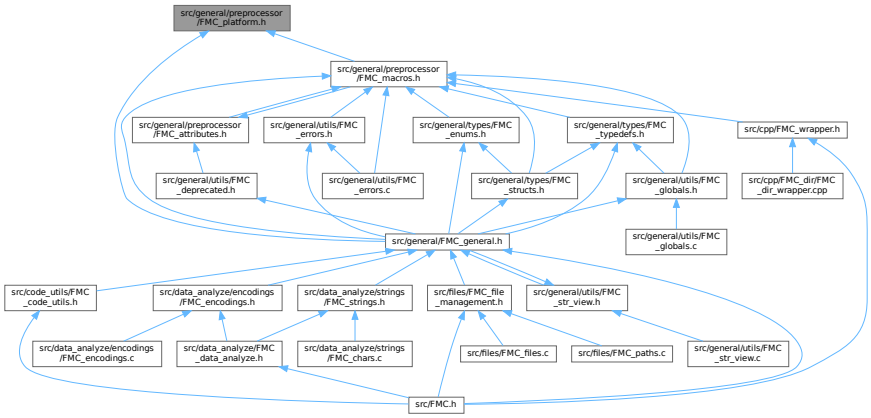
00020 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
00021 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
00027
00028 #pragma once
00029
00030 #ifndef FMC_MACROS_H
00031 #define FMC_MACROS_H
00032
00033 #include "FMC_platform.h"
00034
00035 #include "FMC_attributes.h"
00036
00037
00038 /* Used to avoid false warnings (for example "attribute destructor/constructor does not take
      argument", when it actually can) */
00039 #if defined(__INTELLISENSE__ )
00040     #pragma diag_suppress 1094
00041 #endif
00042
00043 #ifndef FMC_PP_POINT
00044     #define FMC_PP_POINT() .
00045 #endif
00046
00047 #ifndef FMC_CONCAT_MACROS
00048     #define FMC_CONCAT_MACROS
00049     #define FMC_CONCAT10(x, y) x##y
00050     #define FMC_CONCAT9(x, y) FMC_CONCAT10(x, y)
00051     #define FMC_CONCAT8(x, y) FMC_CONCAT9(x, y)
00052     #define FMC_CONCAT7(x, y) FMC_CONCAT8(x, y)
00053     #define FMC_CONCAT6(x, y) FMC_CONCAT7(x, y)
00054     #define FMC_CONCAT5(x, y) FMC_CONCAT6(x, y)
00055     #define FMC_CONCAT4(x, y) FMC_CONCAT5(x, y)
00056     #define FMC_CONCAT3(x, y) FMC_CONCAT4(x, y)
00057     #define FMC_CONCAT2(x, y) FMC_CONCAT3(x, y)
00058     #define FMC_CONCAT(x, y) FMC_CONCAT2(x, y)
00059
00060     #define FMC_CONCAT_2(x, y) FMC_CONCAT(x, y)
00061     #define FMC_CONCAT_3(x, y, z) FMC_CONCAT(FMC_CONCAT(x, y), z)
00062     #define FMC_CONCAT_4(x, y, z, w) FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(x, y), z), w)
00063     #define FMC_CONCAT_5(x, y, z, w, v) FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(x, y), z), w), v)
00064     #define FMC_CONCAT_6(x, y, z, w, v, u) FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(x,
      y), z), w), v), u)
00065     #define FMC_CONCAT_7(x, y, z, w, v, u, t)
      FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(x, y), z), w), v), u), t)
```

```
00066     #define FMC_CONCAT_8(x, y, z, w, v, u, t, s)
      FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(x, y), z), w), v), u),
      t), s)
00067     #define FMC_CONCAT_9(x, y, z, w, v, u, t, s, r)
      FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(x, y), z), w),
      v), u), t), s), r)
00068 #endif
00069
00070 #ifndef FMC_STRINGIZE_MACROS
00071     #define FMC_STRINGIZE_MACROS
00072     #define FMC_STRINGIZE10(x) #x
00073     #define FMC_STRINGIZE9(x) FMC_STRINGIZE10(x)
00074     #define FMC_STRINGIZE8(x) FMC_STRINGIZE9(x)
00075     #define FMC_STRINGIZE7(x) FMC_STRINGIZE8(x)
00076     #define FMC_STRINGIZE6(x) FMC_STRINGIZE7(x)
00077     #define FMC_STRINGIZE5(x) FMC_STRINGIZE6(x)
00078     #define FMC_STRINGIZE4(x) FMC_STRINGIZE5(x)
00079     #define FMC_STRINGIZE3(x) FMC_STRINGIZE4(x)
00080     #define FMC_STRINGIZE2(x) FMC_STRINGIZE3(x)
00081     #define FMC_STRINGIZE(x) FMC_STRINGIZE2(x)
00082 #endif
00083
00084 #ifndef FMC_STRINGIZE_X
00085     #define FMC_STRINGIZE_X
00086     #define FMC_STRINGIZE_2(x, y) FMC_STRINGIZE(FMC_CONCAT(x, y))
00087     #define FMC_STRINGIZE_3(x, y, z) FMC_STRINGIZE(FMC_CONCAT(FMC_CONCAT(x, y), z))
00088     #define FMC_STRINGIZE_4(x, y, z, w) FMC_STRINGIZE(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(x, y), z), w))
00089     #define FMC_STRINGIZE_5(x, y, z, w, v)
      FMC_STRINGIZE(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(x, y), z), w), v))
00090     #define FMC_STRINGIZE_6(x, y, z, w, v, u)
      FMC_STRINGIZE(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(x, y), z), w), v), u))
00091     #define FMC_STRINGIZE_7(x, y, z, w, v, u, t)
      FMC_STRINGIZE(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(x, y), z), w), v), u),
      t))
00092     #define FMC_STRINGIZE_8(x, y, z, w, v, u, t, s)
      FMC_STRINGIZE(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(x, y), z),
      w), v), u), t), s))
00093     #define FMC_STRINGIZE_9(x, y, z, w, v, u, t, s, r)
      FMC_STRINGIZE(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(FMC_CONCAT(x,
      y), z), w), v), u), t), s), r))
00094 #endif
00095
00096 #ifdef FMC_DEFER
00097     #undef FMC_DEFER
00098 #endif
00099 #define FMC_DEFER(stmt, body) do body while (0); stmt
00100
00101
00102 #ifndef FMC_METHODS
00103     #define FMC_METHODS
00104
00105     #define DECL_METHOD(name, ret, ...) \
00106         ret (*name)(__VA_ARGS__)
00107
00108     #define INIT_STRUCT_METHOD(method, associated_function) \
00109         .method = associated_function
00110
00111 #endif // FMC_METHODS
00112
00113 /*#ifndef FMC_OVERLOAD
00114     #define FMC_OVERLOAD(func)
00115 */
00116
00117 #ifdef FMC_VERSION
00118     #undef FMC_VERSION
00119     #undef FMC_VERSION_STRING
00120     #undef FMC_VERSION_NUMBER
00121     #undef FMC_MAJOR_VERSION
00122     #undef FMC_MINOR_VERSION
00123     #undef FMC_PATCH_VERSION
00124 #endif // FMC_VERSION
00125
00126 #define FMC_MAJOR_VERSION 1
00127 #define FMC_MINOR_VERSION 0
00128 #define FMC_PATCH_VERSION 0
00129 #define FMC_VERSION FMC_CONCAT_5(FMC_MAJOR_VERSION, FMC_PP_POINT(), FMC_MINOR_VERSION, FMC_PP_POINT(),
      FMC_PATCH_VERSION)
00130 #define FMC_VERSION_STRING FMC_STRINGIZE_5(FMC_MAJOR_VERSION, FMC_PP_POINT(), FMC_MINOR_VERSION,
      FMC_PP_POINT(), FMC_PATCH_VERSION)
00131 #define FMC_VERSION_NUMBER FMC_CONCAT_2(FMC_MAJOR_VERSION*10000 + FMC_MINOR_VERSION*100 +
      FMC_PATCH_VERSION, L)
00132
00133 #ifndef FMC_alloca
00134     #define FMC_alloca(size) __builtin_alloca(size)
00135 #endif
00136
00137 #ifndef FMC_PROB
```

```
00138     #define FMC_PROB(true_expr, prob) __builtin_expect_with_probability(true_expr, 1, prob)
00139 #endif
00140
00141 #ifndef FMC_UNREACHABLE
00142     #define FMC_UNREACHABLE __builtin_unreachable()
00143 #endif
00144
00145 #ifndef FMC_MAKE_VOID
00146     #define FMC_MAKE_VOID(expr) do { (void)(expr); } while (0)
00147 #endif
00148
00149 #if defined(FMC_BEGIN_DECLS) || defined(FMC_END_DECLS)
00150     #undef FMC_BEGIN_DECLS
00151     #undef FMC_END_DECLS
00152 #endif
00153 #ifdef __cplusplus
00154     #define FMC_BEGIN_DECLS extern "C" {
00155     #define FMC_END_DECLS }
00156 #else
00157     #define FMC_BEGIN_DECLS
00158     #define FMC_END_DECLS
00159 #endif
00160
00161 /* Maybe I'll have to modify this, even though it sounds fine to me now. */
00162 #ifndef FMC_SHARED
00163     #if FMC_COMPILING_ON_WINDOWS && !defined(FMC_STATIC)
00164         #if defined(FMC_BUILD_DLL)
00165             #define FMC_SHARED __declspec(dllexport)
00166         #elif defined(USE_FMC_DLL)
00167             #define FMC_SHARED __declspec(dllimport)
00168         #else
00169             #error "You must define FMC_BUILD_DLL to build the DLL or USE_FMC_DLL to use the built
      DLL. To use or build the static library, please define FMC_STATIC."
00170         #endif
00171     #elif FMC_COMPILING_ON_WINDOWS && defined(FMC_STATIC)
00172         #define FMC_SHARED
00173     #elif FMC_COMPILING_ON_LINUX || FMC_COMPILING_ON_MACOS
00174         #if defined(FMC_STATIC) || defined(USE_FMC_DLL) || defined(FMC_BUILD_DLL)
00175             #warning "You don't have to specify FMC_STATIC, USE_FMC_DLL or FMC_BUILD_DLL on Linux,
      Unix or Mac OS X. These are ignored on your system."
00176         #endif
00177         #define FMC_SHARED
00178     #else
00179         #error "Unsupported OS"
00180     #endif // PLATFORMS
00181 #endif // FMC_SHARED
00182
00183 #ifdef FMC_COMPILE_TIME_ERROR
00184     #undef FMC_COMPILE_TIME_ERROR
00185 #endif // FMC_COMPILE_TIME_ERROR
00186 #define FMC_COMPILE_TIME_ERROR(msg) _Pragma(STRINGIZE(GCC error STRINGIZE(msg)))
00187
00188
00189 #ifdef FMC_ERROR_CHECK
00190     #undef FMC_ERROR_CHECK
00191 #endif // FMC_ERROR_CHECK
00192 // thought about this for lisibility, not sure if I'll use it though
00193 #define FMC_ERROR_CHECK(cond, todo_stmt, enable_debug, todo_before) \
00194     if (cond)                                                       \
00195     {   if(enable_debug) todo_before                                \
00196         todo_stmt;                                                  \
00197     }
00198
00199 #endif // FMC_MACROS_H
```

3.46 src/general/preprocessor/FMC_platform.h File Reference

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



3.47 FMC_platform.h

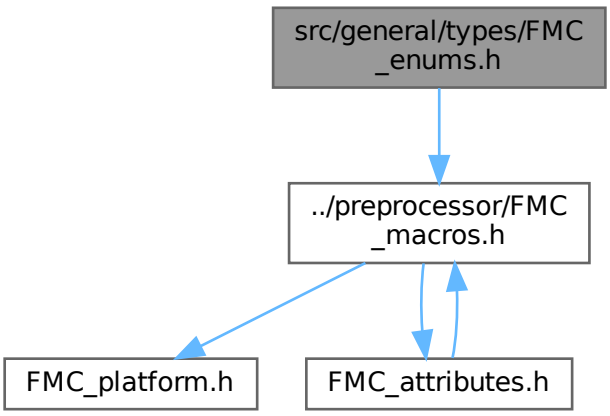
Go to the documentation of this file.

```
00001 /*
00002
00003 MIT License
00004
00005 Copyright (c) 2022-2023 Axel PASCON
00006
00007 Permission is hereby granted, free of charge, to any person obtaining a copy
00008 of this software and associated documentation files (the "Software"), to deal
00009 in the Software without restriction, including without limitation the rights
00010 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
00011 copies of the Software, and to permit persons to whom the Software is
00012 furnished to do so, subject to the following conditions:
00013
00014 The above copyright notice and this permission notice shall be included in all
00015 copies or substantial portions of the Software.
00016
00017 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
00018 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
00019 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
00020 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
00021 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
00027 #ifndef FMC_PLATFORM_H
00028 #define FMC_PLATFORM_H
00029
00030
00031 #if defined(FMC_COMPILING_ON_WINDOWS)
00032     #undef FMC_COMPILING_ON_WINDOWS
00033 #elif defined(FMC_COMPILING_ON_LINUX)
00034     #undef FMC_COMPILING_ON_LINUX
00035 #endif // OS detection
00036 #if defined(_WIN32) || defined(_WIN64) || defined(__WIN32__) || defined(__TOS_WIN__) ||
    defined(__WINDOWS__)
00037     #define FMC_COMPILING_ON_WINDOWS 1
00038 #elif defined(__linux__) || defined(__linux) || defined(linux) || defined(__gnu_linux__)
00039     #define FMC_COMPILING_ON_LINUX 1
00040 #else
00041     #warning "This library hasn't been tested on this OS."
00042 #endif // OS management
00043
00044 #if defined(FMC_COMPILING_ON_MINGW)
00045     #undef FMC_COMPILING_ON_MINGW
```

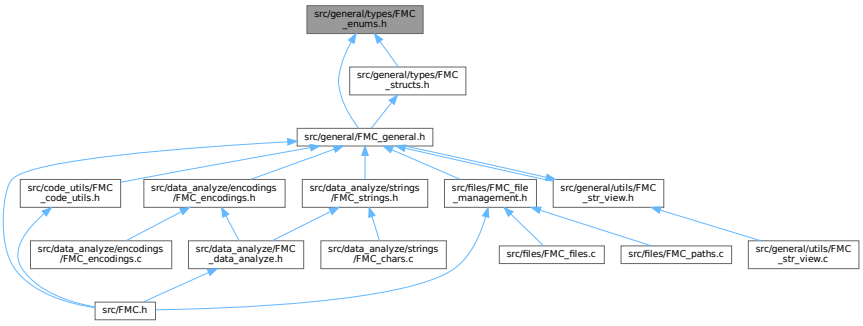
```
00046 #elif defined(FMC_COMPILING_WITH_GCC)
00047     #undef FM_COMPILING_WITH_GCC
00048 #endif // Compiler and environment detection
00049 #if defined(__MINGW32__) || defined(__MINGW64__) || defined(__MINGW32) || defined(__MINGW64) ||
      defined(__MINGW__)
00050     #define FMC_COMPILING_ON_MINGW 1
00051 #elif defined(__GNUC__) || defined(__GNUG__)
00052     #define FMC_COMPILING_WITH_GCC 1
00053 #else
00054     #warning "This library hasn't been tested on your compiler."
00055 #endif // Compiler and environment management
00056
00057 // check C17 standard
00058 #ifndef __cplusplus
00059     #if __STDC_VERSION__ < 201710L
00060         #error "FManC requires C17 standard or higher."
00061     #endif
00062 #else
00063     #if __cplusplus < 201703L
00064         #error "FManC requires C++17 standard or higher."
00065     #endif
00066 #endif
00067
00068 #endif /* FMC_PLATFORM_H */
```

3.48 src/general/types/FMC_enums.h File Reference

Include dependency graph for FMC_enums.h:



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



Macros

- #define FMC_ENUMS_H

Typedefs

- typedef enum FManC_Encodings FMC_Encodings

Enumerations

- enum FManC_Encodings {
  utf8 = 1 , utf8_bom = 2 , utf16_le = 4 , utf16_be = 8 ,
  utf32_le = 16 , utf32_be = 32 , ascii = 64 , unknown = 128 ,
  error = 256 }

3.48.1 Macro Definition Documentation

3.48.1.1 FMC_ENUMS_H

```
#define FMC_ENUMS_H
```

Definition at line 30 of file FMC_enums.h.

3.48.2 Typedef Documentation

3.48.2.1 FMC_Encodings

```
typedef enum FManC_Encodings FMC_Encodings
```

Definition at line 47 of file FMC_enums.h.

3.48.3 Enumeration Type Documentation

3.48.3.1 FManC_Encodings

```
enum FManC_Encodings
```

Enumerator

utf8	
utf8_bom	
utf16_le	
utf16_be	
utf32_le	
utf32_be	
ascii	
unknown	
error	

Definition at line 34 of file FMC_enums.h.

3.49 FMC_enums.h

Go to the documentation of this file.

```
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00003 MIT License
00004
00005 Copyright (c) 2022-2023 Axel PASCON
00006
00007 Permission is hereby granted, free of charge, to any person obtaining a copy
00008 of this software and associated documentation files (the "Software"), to deal
00009 in the Software without restriction, including without limitation the rights
00010 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
00011 copies of the Software, and to permit persons to whom the Software is
00012 furnished to do so, subject to the following conditions:
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00015 copies or substantial portions of the Software.
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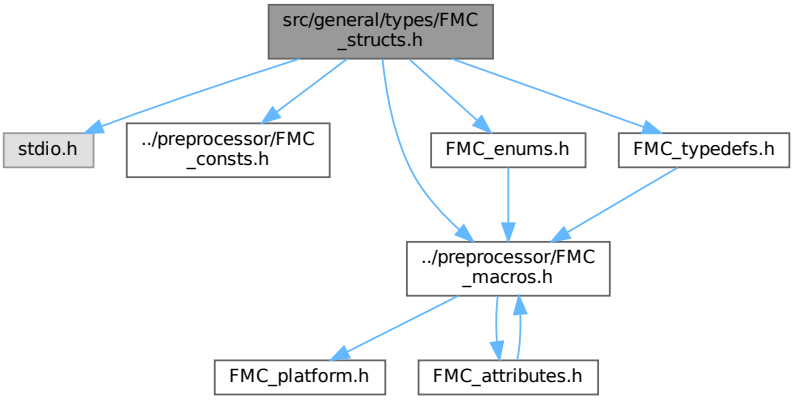
00020 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
00021 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
00027 #pragma once
```

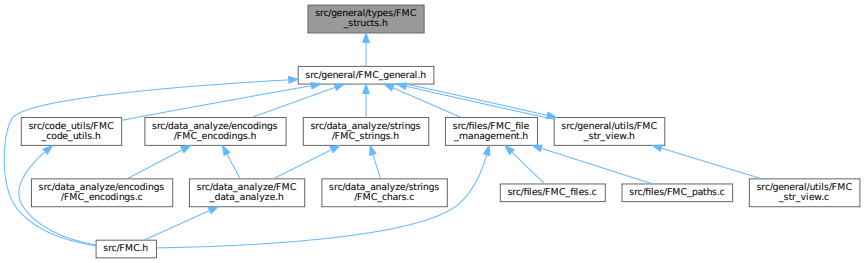
```
00028
00029 #ifndef FMC_ENUMS_H
00030 #define FMC_ENUMS_H
00031
00032 #include "../preprocessor/FMC_macros.h"
00033
00034 FMC_SHARED enum FManC_Encodings
00035 {
00036     utf8 = 1,
00037     utf8_bom = 2,
00038     utf16_le = 4,
00039     utf16_be = 8,
00040     utf32_le = 16,
00041     utf32_be = 32,
00042     ascii = 64,
00043     unknown = 128,
00044     error = 256
00045 };
00046
00047 typedef enum FManC_Encodings FMC_Encodings;
00048
00049 #endif // FMC_ENUMS_H
```

3.50 src/general/types/FMC_structs.h File Reference

Include dependency graph for FMC_structs.h:



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



Data Structures

- struct FManC_Char
- struct FManC_CharComp
- struct FManC_CStrView
- struct FManC_File
- struct FManC_String
- struct FManC_StrOcc

Macros

- #define FMC_STRUCTS_H

Typedefs

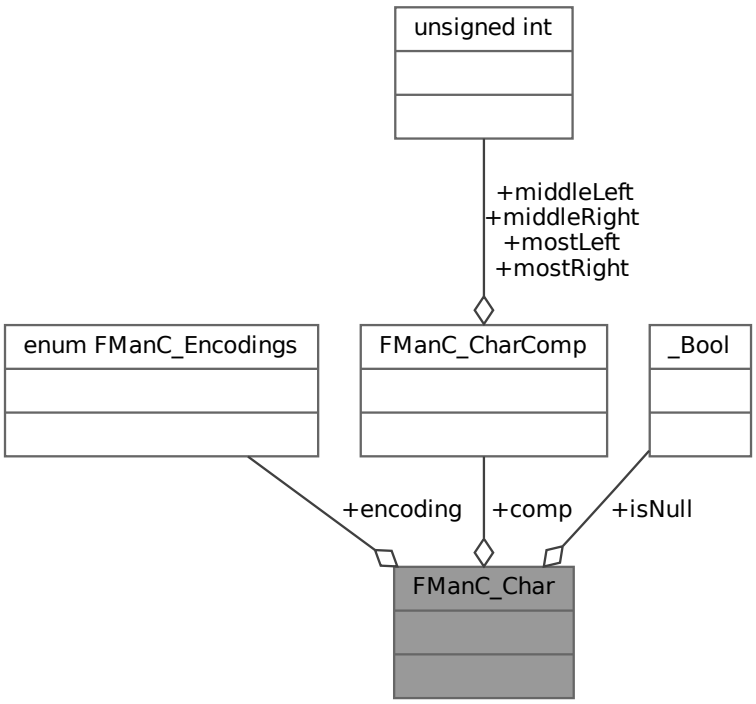
- typedef struct FManC_Char FMC_Char
- typedef struct FManC_CharComp FMC_CharComp
- typedef struct FManC_CStrView FMC_CStrView
- typedef struct FManC_File FMC_File
- typedef struct FManC_String FMC_String
- typedef struct FManC_StrOcc FMC_StrOcc

3.50.1 Data Structure Documentation

3.50.1.1 struct FManC_Char

Definition at line 69 of file FMC_structs.h.

Collaboration diagram for FManC_Char:



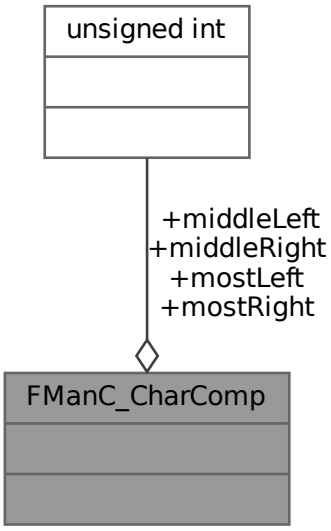
Data Fields

FMC_CharComp	comp	
FMC_Encodings	encoding	
FMC_CharControl	isNull	

3.50.1.2 struct FManC_CharComp

Definition at line 59 of file FMC_structs.h.

Collaboration diagram for FManC_CharComp:



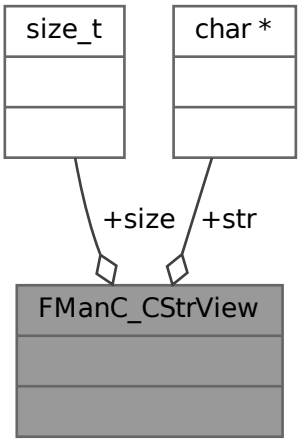
Data Fields

unsigned int	middleLeft: 8	
unsigned int	middleRight: 8	
unsigned int	mostLeft: 8	
unsigned int	mostRight: 8	

3.50.1.3 struct FManC_CStrView

Definition at line 87 of file FMC_structs.h.

Collaboration diagram for FManC_CStrView:



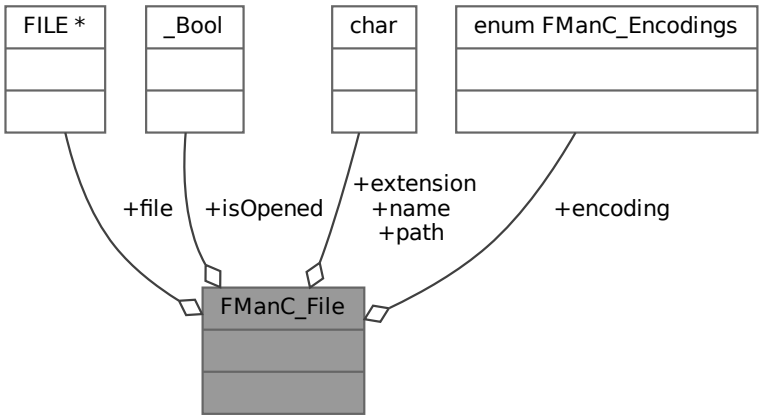
Data Fields

size_t	size	
char *	str	

3.50.1.4 struct FManC_File

Definition at line 39 of file FMC_structs.h.

Collaboration diagram for FManC_File:



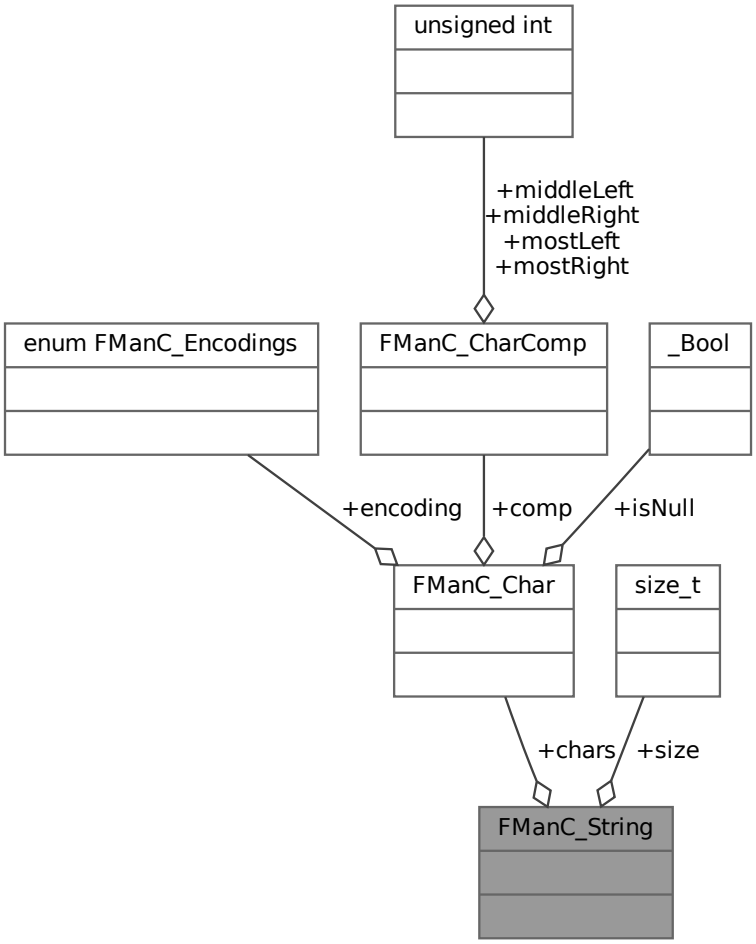
Data Fields

FMC_Encodings	encoding	
char	extension[MAX_FEXT_SIZE]	
FILE *	file	
FMC_FileState	isOpened	
char	name[MAX_FNAME_SIZE]	
char	path[MAX_FPATH_SIZE]	

3.50.1.5 struct FManC_String

Definition at line 79 of file FMC_structs.h.

Collaboration diagram for FManC_String:



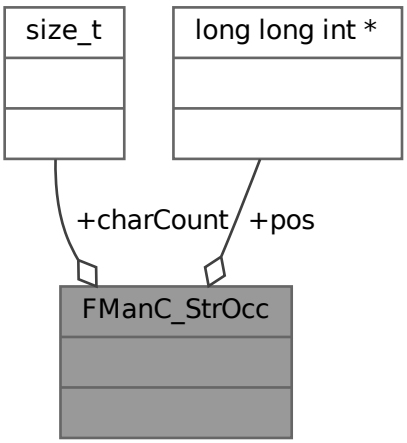
Data Fields

FMC_Char *	chars	
size_t	size	

3.50.1.6 struct FManC_StrOcc

Definition at line 51 of file FMC_structs.h.

Collaboration diagram for FManC_StrOcc:



Data Fields

size_t	charCount	
long long int *	pos	

3.50.2 Macro Definition Documentation

3.50.2.1 FMC_STRUCTS_H

```
#define FMC_STRUCTS_H
```

Definition at line 30 of file FMC_structs.h.

3.50.3 Typedef Documentation

3.50.3.1 FMC_Char

```
typedef struct FManC_Char FMC_Char
```

Definition at line 76 of file FMC_structs.h.

3.50.3.2 FMC_CharComp

```
typedef struct FManC_CharComp FMC_CharComp
```

Definition at line 67 of file FMC_structs.h.

3.50.3.3 FMC_CStrView

```
typedef struct FManC_CStrView FMC_CStrView
```

Definition at line 93 of file FMC_structs.h.

3.50.3.4 FMC_File

```
typedef struct FManC_File FMC_File
```

Definition at line 49 of file FMC_structs.h.

3.50.3.5 FMC_String

```
typedef struct FManC_String FMC_String
```

Definition at line 85 of file FMC_structs.h.

3.50.3.6 FMC_StrOcc

```
typedef struct FManC_StrOcc FMC_StrOcc
```

Definition at line 57 of file FMC_structs.h.

3.51 FMC_structs.h

Go to the documentation of this file.

```
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00002
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00004
00005 Copyright (c) 2022-2023 Axel PASCON
00006
00007 Permission is hereby granted, free of charge, to any person obtaining a copy
00008 of this software and associated documentation files (the "Software"), to deal
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00011 copies of the Software, and to permit persons to whom the Software is
00012 furnished to do so, subject to the following conditions:
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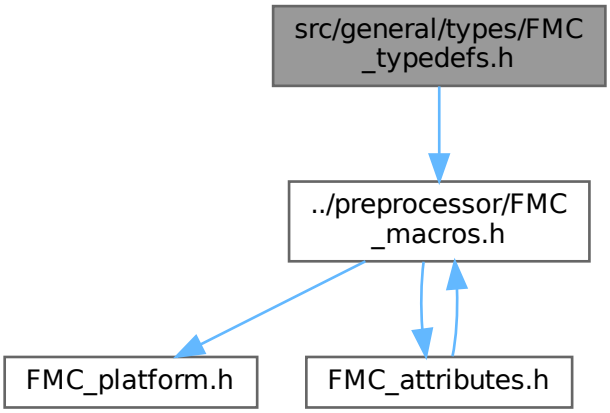
00021 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
00027 #pragma once
00028
00029 #ifndef FMC_STRUCTS_H
00030 #define FMC_STRUCTS_H
00031
00032
00033 #include <stdio.h>
00034 #include "../preprocessor/FMC_consts.h"
00035 #include "../preprocessor/FMC_macros.h"
00036 #include "FMC_enums.h"
00037 #include "FMC_typedefs.h"
00038
00039 FMC_SHARED struct FManC_File
00040 {
00041     FILE *file;
00042     FMC_FileState isOpened;
00043     char path[MAX_FPATH_SIZE];
00044     char name[MAX_FNAME_SIZE];
00045     char extension[MAX_FEXT_SIZE];
00046     FMC_Encodings encoding;
00047 };
00048
00049 typedef struct FManC_File FMC_File;
00050
00051 FMC_SHARED struct FManC_StrOcc
00052 {
00053     size_t charCount;
00054     long long int *pos;
00055 };
00056
00057 typedef struct FManC_StrOcc FMC_StrOcc;
00058
00059 FMC_SHARED struct FManC_CharComp
00060 {
00061     unsigned int mostLeft : 8;
00062     unsigned int middleLeft : 8;
00063     unsigned int middleRight : 8;
00064     unsigned int mostRight : 8;
00065 };
00066
00067 typedef struct FManC_CharComp FMC_CharComp;
00068
00069 FMC_SHARED struct FManC_Char
00070 {
00071     FMC_Encodings encoding;
00072     FMC_CharComp comp;
00073     FMC_CharControl isNull;
00074 };
00075
00076 typedef struct FManC_Char FMC_Char;
00077
00078
00079 FMC_SHARED struct FManC_String
00080 {
00081     FMC_Char *chars;
00082     size_t size;
```

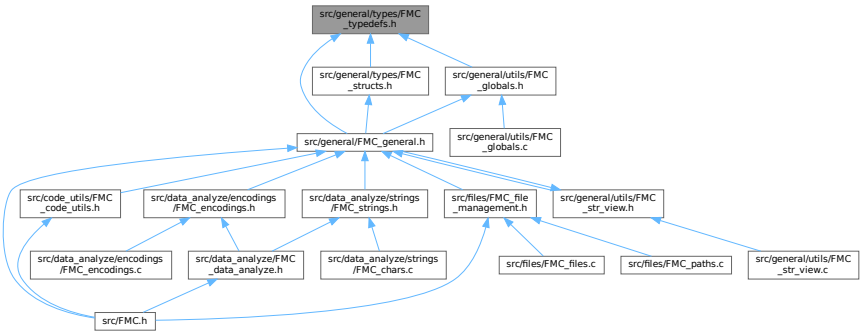
```
00083 };
00084
00085 typedef struct FManC_String FMC_String;
00086
00087 FMC_SHARED struct FManC_CStrView
00088 {
00089     size_t size;
00090     char *str;
00091 };
00092
00093 typedef struct FManC_CStrView FMC_CStrView;
00094
00095 /*#include <threads.h>
00096
00097
00098 FMC_SHARED struct FManC_ArenaElement
00099 {
00100     void* current;
00101     size_t alignement;
00102 };
00103
00104 FMC_SHARED struct FManC_Arena
00105 {
00106     void* start;
00107     void* end;
00108
00109 };*/
00110
00111 #endif // FMC_STRUCTS_H
```

3.52 src/general/types/FMC_typedefs.h File Reference

Include dependency graph for FMC_typedefs.h:



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



Macros

- #define FMC_TYPEDEFS_H

Typedefs

- typedef _Bool FMC_Bool
- typedef _Bool FMC_CharControl
- typedef _Bool FMC_FileState
- typedef int found_bs_n
- typedef int found_bs_r_bs_n
- typedef int found_bs_t

3.52.1 Macro Definition Documentation

3.52.1.1 FMC_TYPEDEFS_H

```
#define FMC_TYPEDEFS_H
```

Definition at line 30 of file FMC_typedefs.h.

3.52.2 Typedef Documentation

3.52.2.1 FMC_Bool

```
typedef _Bool FMC_Bool
```

Definition at line 39 of file FMC_typedefs.h.

3.52.2.2 FMC_CharControl

```
typedef _Bool FMC_CharControl
```

Definition at line 37 of file FMC_typedefs.h.

3.52.2.3 FMC_FileState

```
typedef _Bool FMC_FileState
```

Definition at line 38 of file FMC_typedefs.h.

3.52.2.4 found_bs_n

```
typedef int found_bs_n
```

Definition at line 34 of file FMC_typedefs.h.

3.52.2.5 found_bs_r_bs_n

```
typedef int found_bs_r_bs_n
```

Definition at line 36 of file FMC_typedefs.h.

3.52.2.6 found_bs_t

```
typedef int found_bs_t
```

Definition at line 35 of file FMC_typedefs.h.

3.53 FMC_typedefs.h

Go to the documentation of this file.

```
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00002
00003 MIT License
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00005 Copyright (c) 2022-2023 Axel PASCON
00006
00007 Permission is hereby granted, free of charge, to any person obtaining a copy
00008 of this software and associated documentation files (the "Software"), to deal
00009 in the Software without restriction, including without limitation the rights
00010 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
00011 copies of the Software, and to permit persons to whom the Software is
00012 furnished to do so, subject to the following conditions:
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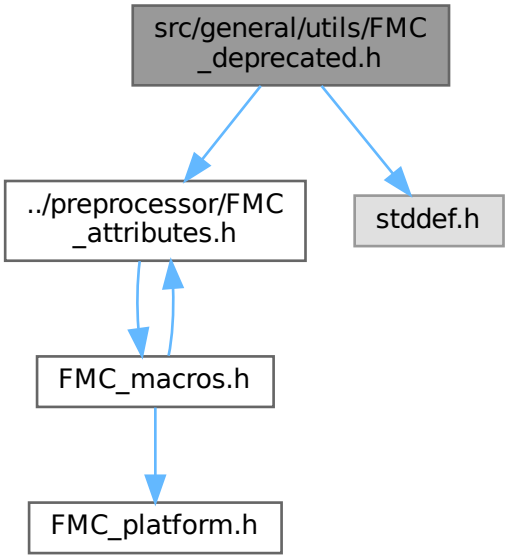
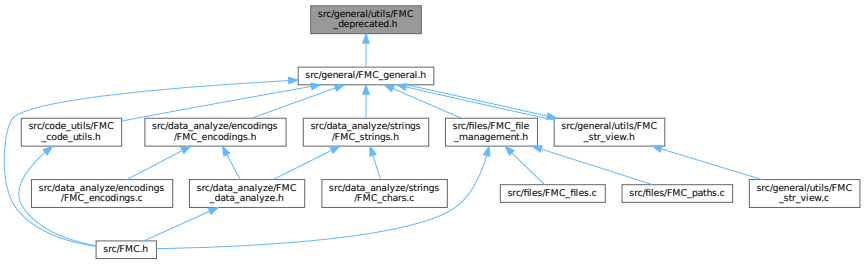
00021 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
00027 #pragma once
00028
00029 #ifndef FMC_TYPEDEFS_H
00030 #define FMC_TYPEDEFS_H
00031
00032 #include "../preprocessor/FMC_macros.h"
00033
00034 typedef int found_bs_n;
00035 typedef int found_bs_t;
00036 typedef int found_bs_r_bs_n;
00037 typedef _Bool FMC_CharControl;
00038 typedef _Bool FMC_FileState;
00039 typedef _Bool FMC_Bool;
00040
00041
00042 #endif // FMC_TYPEDEFS_H
```

3.54 src/general/utils/FMC_deprecated.h File Reference

Include dependency graph for FMC_deprecated.h:



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



Functions

- FMC_FUNC_UNAVAILABLE (This function is not anymore available in the library since the version 1.0.0. Use FMC_cutFilename instead) void fgetFilePath(char ∗sourceFilePath
- FMC_FUNC_UNAVAILABLE (This function is not anymore available in the library since the version 1.0.0. Use FMC_extractFilename instead) void fgetFileName(char ∗sourceFilePath
- FMC_FUNC_UNAVAILABLE (This function is not anymore available in the library since the version 1.0.0. Use FMC_getExtension instead) void fgetFileExtension(char ∗sourceFilePath
- FMC_FUNC_UNAVAILABLE (This function is not anymore available in the library since the version 1.0.0.) char ∗copyFileWithoutTabAndLineBreak(char ∗sourceFilePath
- FMC_TYPE_UNAVAILABLE (This type is not anymore available in the library since the version 1.0.0.) struct FMANC_SO

Variables

- char * extension
- char * fileName
- char * filePath
- char ** pathToCopy
- char * toSearch

3.54.1 Function Documentation

3.54.1.1 FMC_FUNC_UNAVAILABLE() [1/4]

```
FMC_FUNC_UNAVAILABLE (
            This function is not anymore available in the library since the version 1.0.0.
Use FMC_cutFilename instead )
```

3.54.1.2 FMC_FUNC_UNAVAILABLE() [2/4]

```
FMC_FUNC_UNAVAILABLE (
            This function is not anymore available in the library since the version 1.0.0.
Use FMC_extractFilename instead )
```

3.54.1.3 FMC_FUNC_UNAVAILABLE() [3/4]

```
FMC_FUNC_UNAVAILABLE (
            This function is not anymore available in the library since the version 1.0.0.
Use FMC_getExtension instead )
```

3.54.1.4 FMC_FUNC_UNAVAILABLE() [4/4]

```
FMC_FUNC_UNAVAILABLE (
            This function is not anymore available in the library since the version 1.0.  0.
)
```

3.54.1.5 FMC_TYPE_UNAVAILABLE()

```
FMC_TYPE_UNAVAILABLE (
            This type is not anymore available in the library since the version 1.0.  0.  )
```

Definition at line 8 of file FMC_deprecated.h.

3.54.2 Variable Documentation

3.54.2.1 extension

```
char* extension
```

Definition at line 28 of file FMC_deprecated.h.

3.54.2.2 fileName

```
char* fileName
```

Definition at line 22 of file FMC_deprecated.h.

3.54.2.3 filePath

```
char* filePath
```

Definition at line 25 of file FMC_deprecated.h.

3.54.2.4 pathToCopy

```
char** pathToCopy
```

Definition at line 19 of file FMC_deprecated.h.

3.54.2.5 toSearch

```
char* toSearch
```

Definition at line 40 of file FMC_deprecated.h.

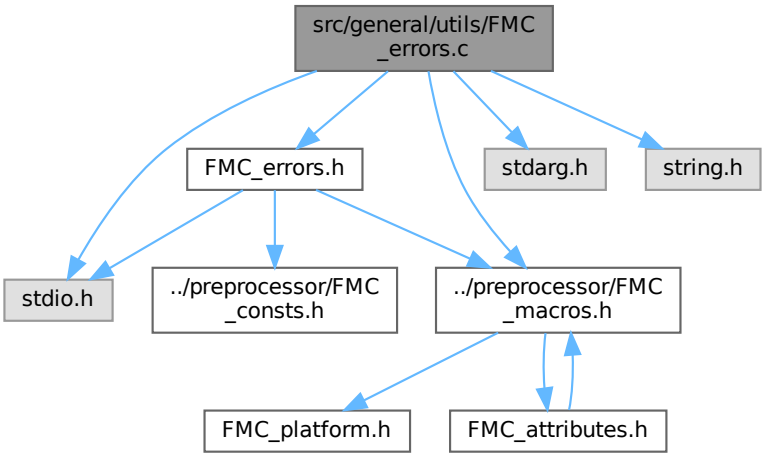
3.55 FMC_deprecated.h

Go to the documentation of this file.

```
00001 #ifndef FMC_DEPRECATED_H
00002 #define FMC_DEPRECATED_H
00003
00004 #include "../preprocessor/FMC_attributes.h"
00005 #include <stddef.h>
00006
00007 #if !defined(BUILDING_FMANC)
00008 FMC_TYPE_UNAVAILABLE(This type is not anymore available in the library since the version 1.0.0.)
00009 struct FMANC_SO
00010 {
00011     size_t charCount;
00012     long long int *pos;
00013 };
00014
00015 FMC_TYPE_UNAVAILABLE(This type is not anymore available in the library since the version 1.0.0.)
00016 typedef struct FMANC_SO stringOccurrences;
00017
00018 FMC_FUNC_UNAVAILABLE(This function is not anymore available in the library since the version 1.0.0.)
00019 char *copyFileWithoutTabAndLineBreak(char *sourceFilePath, char **pathToCopy);
00020
00021 FMC_FUNC_UNAVAILABLE(This function is not anymore available in the library since the version 1.0.0.
      Use FMC_extractFilename instead)
00022 void fgetFileName(char *sourceFilePath, char *fileName);
00023
00024 FMC_FUNC_UNAVAILABLE(This function is not anymore available in the library since the version 1.0.0.
      Use FMC_cutFilename instead)
00025 void fgetFilePath(char *sourceFilePath, char *filePath);
00026
00027 FMC_FUNC_UNAVAILABLE(This function is not anymore available in the library since the version 1.0.0.
      Use FMC_getExtension instead)
00028 void fgetFileExtension(char *sourceFilePath, char *extension);
00029
00030 FMC_FUNC_UNAVAILABLE(This function is not anymore available in the library since the version 1.0.0.)
00031 size_t countCharInFile(char *filePath);
00032
00033 FMC_FUNC_UNAVAILABLE(This function is not anymore available in the library since the version 1.0.0.)
00034 stringOccurrences *init_StringOccurences(size_t sizeOfString);
00035
00036 FMC_FUNC_UNAVAILABLE(This function is not anymore available in the library since the version 1.0.0.)
00037 void free_stringOccurrences();
00038
00039 FMC_FUNC_UNAVAILABLE(This function is not anymore available in the library since the version 1.0.0.)
00040 stringOccurrences *searchStringInFile(char *filePath, char *toSearch);
00041
00042 FMC_FUNC_UNAVAILABLE(This function is not anymore available in the library since the version 1.0.0.)
00043 int deleteCStyleComments(char *filePath);
00044
00045 #endif // BUILDING_FMANC
00046 #endif // FMC_DEPRECATED_H
```

3.56 src/general/utils/FMC_errors.c File Reference

Include dependency graph for FMC_errors.c:



Functions

- void FMC_changeStreamTextColorToBlue (FILE ∗stream)
- void FMC_changeStreamTextColorToBrightBlue (FILE ∗stream)
- void FMC_changeStreamTextColorToBrightCyan (FILE ∗stream)
- void FMC_changeStreamTextColorToBrightGreen (FILE ∗stream)
- void FMC_changeStreamTextColorToBrightMagenta (FILE ∗stream)
- void FMC_changeStreamTextColorToBrightRed (FILE ∗stream)
- void FMC_changeStreamTextColorToBrightWhite (FILE ∗stream)
- void FMC_changeStreamTextColorToBrightYellow (FILE ∗stream)
- void FMC_changeStreamTextColorToCyan (FILE ∗stream)
- void FMC_changeStreamTextColorToGreen (FILE ∗stream)
- void FMC_changeStreamTextColorToMagenta (FILE ∗stream)
- void FMC_changeStreamTextColorToRed (FILE ∗stream)
- void FMC_changeStreamTextColorToWhite (FILE ∗stream)
- void FMC_changeStreamTextColorToYellow (FILE ∗stream)
- void FMC_makeMsg_f (char ∗buff, unsigned int argc,...)
- void FMC_printBlueError (FILE ∗stream, const char ∗text)
- void FMC_printBlueText (FILE ∗stream, const char ∗text)
- void FMC_printBrightBlueError (FILE ∗stream, const char ∗text)
- void FMC_printBrightBlueText (FILE ∗stream, const char ∗text)
- void FMC_printBrightCyanError (FILE ∗stream, const char ∗text)
- void FMC_printBrightCyanText (FILE ∗stream, const char ∗text)
- void FMC_printBrightGreenError (FILE ∗stream, const char ∗text)
- void FMC_printBrightGreenText (FILE ∗stream, const char ∗text)
- void FMC_printBrightMagentaError (FILE ∗stream, const char ∗text)
- void FMC_printBrightMagentaText (FILE ∗stream, const char ∗text)
- void FMC_printBrightRedError (FILE ∗stream, const char ∗text)
- void FMC_printBrightRedText (FILE ∗stream, const char ∗text)

- void FMC_printBrightWhiteError (FILE ∗stream, const char ∗text)
- void FMC_printBrightWhiteText (FILE ∗stream, const char ∗text)
- void FMC_printBrightYellowError (FILE ∗stream, const char ∗text)
- void FMC_printBrightYellowText (FILE ∗stream, const char ∗text)
- void FMC_printCyanError (FILE ∗stream, const char ∗text)
- void FMC_printCyanText (FILE ∗stream, const char ∗text)
- void FMC_printGreenError (FILE ∗stream, const char ∗text)
- void FMC_printGreenText (FILE ∗stream, const char ∗text)
- void FMC_printMagentaError (FILE ∗stream, const char ∗text)
- void FMC_printMagentaText (FILE ∗stream, const char ∗text)
- void FMC_printRedError (FILE ∗stream, const char ∗text)
- void FMC_printRedText (FILE ∗stream, const char ∗text)
- void FMC_printWhiteError (FILE ∗stream, const char ∗text)
- void FMC_printWhiteText (FILE ∗stream, const char ∗text)
- void FMC_printYellowError (FILE ∗stream, const char ∗text)
- void FMC_printYellowText (FILE ∗stream, const char ∗text)
- void FMC_resetStreamOutputStyle (FILE ∗stream)

3.56.1 Function Documentation

3.56.1.1 FMC_changeStreamTextColorToBlue()

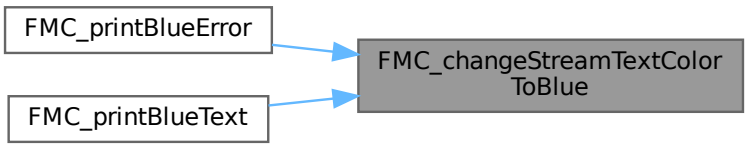
```
void FMC_changeStreamTextColorToBlue (
            FILE * stream )
```

Definition at line 63 of file FMC_errors.h.

References FG_BLUE.

Referenced by FMC_printBlueError(), and FMC_printBlueText().

Here is the caller graph for this function:



3.56.1.2 FMC_changeStreamTextColorToBrightBlue()

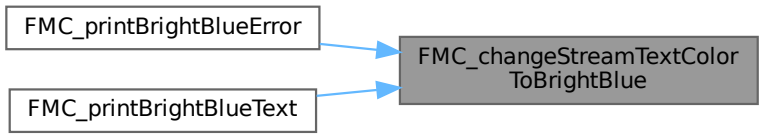
```
void FMC_changeStreamTextColorToBrightBlue (
            FILE * stream )
```

Definition at line 98 of file FMC_errors.h.

References FG_BRIGHT_BLUE.

Referenced by FMC_printBrightBlueError(), and FMC_printBrightBlueText().

Here is the caller graph for this function:



3.56.1.3 FMC_changeStreamTextColorToBrightCyan()

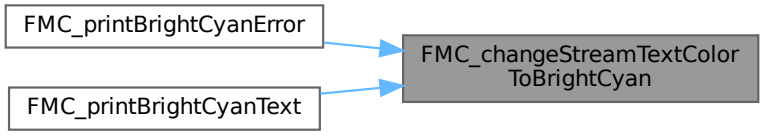
```
void FMC_changeStreamTextColorToBrightCyan (
            FILE * stream )
```

Definition at line 108 of file FMC_errors.h.

References FG_BRIGHT_CYAN.

Referenced by FMC_printBrightCyanError(), and FMC_printBrightCyanText().

Here is the caller graph for this function:



3.56.1.4 FMC_changeStreamTextColorToBrightGreen()

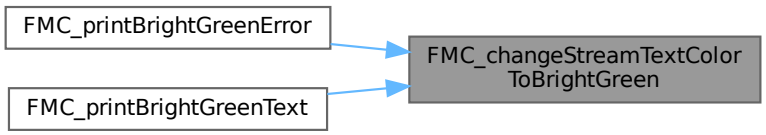
```
void FMC_changeStreamTextColorToBrightGreen (
            FILE * stream )
```

Definition at line 88 of file FMC_errors.h.

References FG_BRIGHT_GREEN.

Referenced by FMC_printBrightGreenError(), and FMC_printBrightGreenText().

Here is the caller graph for this function:



3.56.1.5 FMC_changeStreamTextColorToBrightMagenta()

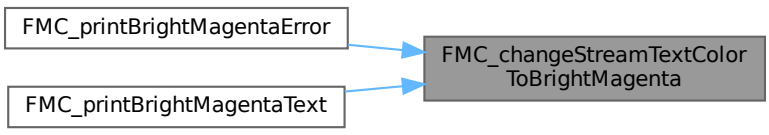
```
void FMC_changeStreamTextColorToBrightMagenta (
            FILE * stream )
```

Definition at line 103 of file FMC_errors.h.

References FG_BRIGHT_MAGENTA.

Referenced by FMC_printBrightMagentaError(), and FMC_printBrightMagentaText().

Here is the caller graph for this function:



3.56.1.6 FMC_changeStreamTextColorToBrightRed()

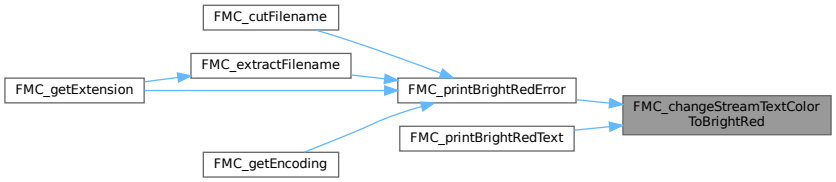
```
void FMC_changeStreamTextColorToBrightRed (
            FILE * stream )
```

Definition at line 83 of file FMC_errors.h.

References FG_BRIGHT_RED.

Referenced by FMC_printBrightRedError(), and FMC_printBrightRedText().

Here is the caller graph for this function:



3.56.1.7 FMC_changeStreamTextColorToBrightWhite()

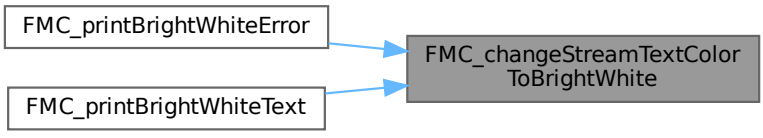
```
void FMC_changeStreamTextColorToBrightWhite (
            FILE * stream )
```

Definition at line 113 of file FMC_errors.h.

References FG_BRIGHT_WHITE.

Referenced by FMC_printBrightWhiteError(), and FMC_printBrightWhiteText().

Here is the caller graph for this function:



3.56.1.8 FMC_changeStreamTextColorToBrightYellow()

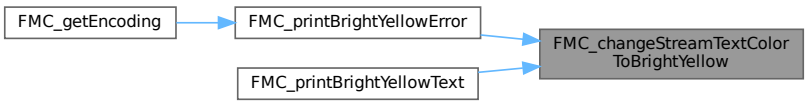
```
void FMC_changeStreamTextColorToBrightYellow (
            FILE * stream )
```

Definition at line 93 of file FMC_errors.h.

References FG_BRIGHT_YELLOW.

Referenced by FMC_printBrightYellowError(), and FMC_printBrightYellowText().

Here is the caller graph for this function:



3.56.1.9 FMC_changeStreamTextColorToCyan()

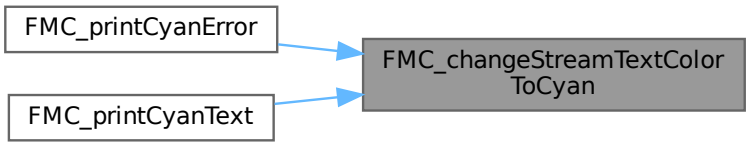
```
void FMC_changeStreamTextColorToCyan (
            FILE * stream )
```

Definition at line 73 of file FMC_errors.h.

References FG_CYAN.

Referenced by FMC_printCyanError(), and FMC_printCyanText().

Here is the caller graph for this function:



3.56.1.10 FMC_changeStreamTextColorToGreen()

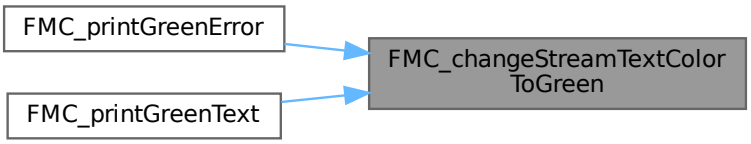
```
void FMC_changeStreamTextColorToGreen (
            FILE * stream )
```

Definition at line 53 of file FMC_errors.h.

References FG_GREEN.

Referenced by FMC_printGreenError(), and FMC_printGreenText().

Here is the caller graph for this function:



3.56.1.11 FMC_changeStreamTextColorToMagenta()

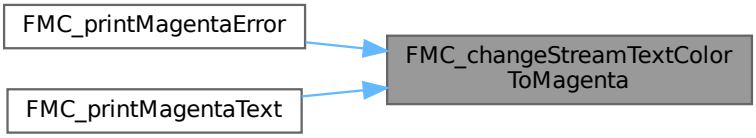
```
void FMC_changeStreamTextColorToMagenta (
            FILE * stream )
```

Definition at line 68 of file FMC_errors.h.

References FG_MAGENTA.

Referenced by FMC_printMagentaError(), and FMC_printMagentaText().

Here is the caller graph for this function:



3.56.1.12 FMC_changeStreamTextColorToRed()

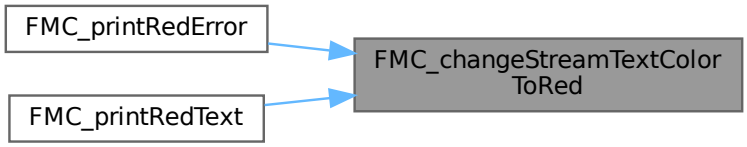
```
void FMC_changeStreamTextColorToRed (
            FILE * stream )
```

Definition at line 48 of file FMC_errors.h.

References FG_RED.

Referenced by FMC_printRedError(), and FMC_printRedText().

Here is the caller graph for this function:



3.56.1.13 FMC_changeStreamTextColorToWhite()

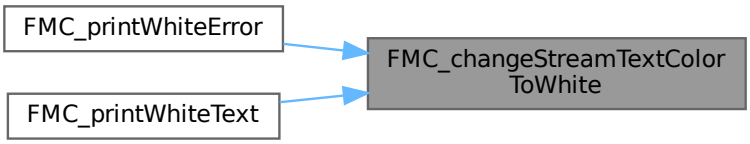
```
void FMC_changeStreamTextColorToWhite (
            FILE * stream )
```

Definition at line 78 of file FMC_errors.h.

References FG_WHITE.

Referenced by FMC_printWhiteError(), and FMC_printWhiteText().

Here is the caller graph for this function:



3.56.1.14 FMC_changeStreamTextColorToYellow()

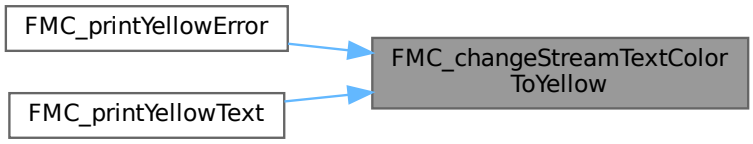
```
void FMC_changeStreamTextColorToYellow (
            FILE * stream )
```

Definition at line 58 of file FMC_errors.h.

References FG_YELLOW.

Referenced by FMC_printYellowError(), and FMC_printYellowText().

Here is the caller graph for this function:



3.56.1.15 FMC_makeMsg_f()

```
void FMC_makeMsg_f (
            char * buff,
            unsigned int argc,
             ... )
```

Definition at line 33 of file FMC_errors.c.

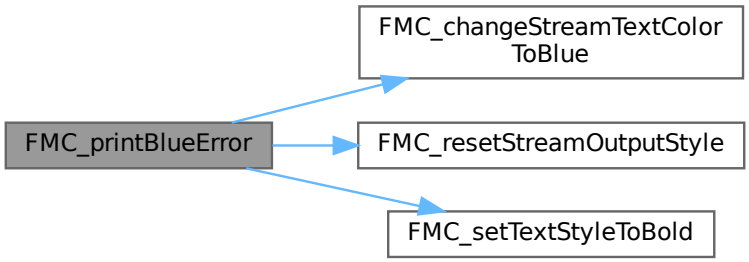
3.56.1.16 FMC_printBlueError()

```
void FMC_printBlueError (
            FILE * stream,
            const char * text )
```

Definition at line 341 of file FMC_errors.h.

References FMC_changeStreamTextColorToBlue(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Here is the call graph for this function:



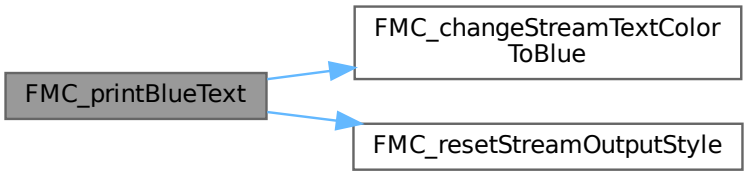
3.56.1.17 FMC_printBlueText()

```
void FMC_printBlueText (
            FILE * stream,
            const char * text )
```

Definition at line 240 of file FMC_errors.h.

References FMC_changeStreamTextColorToBlue(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



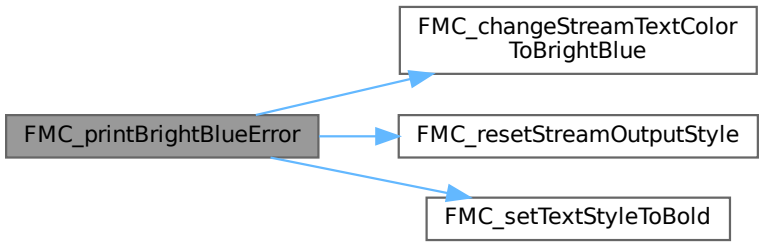
3.56.1.18 FMC_printBrightBlueError()

```
void FMC_printBrightBlueError (
            FILE * stream,
            const char * text )
```

Definition at line 397 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightBlue(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Here is the call graph for this function:



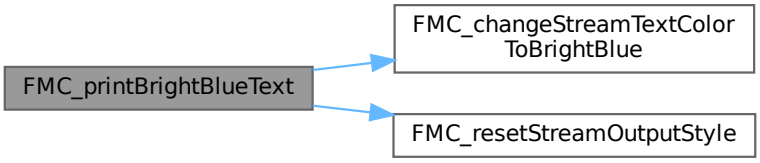
3.56.1.19 FMC_printBrightBlueText()

```
void FMC_printBrightBlueText (
            FILE * stream,
            const char * text )
```

Definition at line 289 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightBlue(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



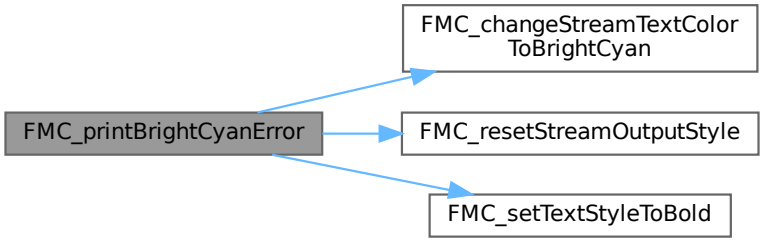
3.56.1.20 FMC_printBrightCyanError()

```
void FMC_printBrightCyanError (
            FILE * stream,
            const char * text )
```

Definition at line 413 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightCyan(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Here is the call graph for this function:



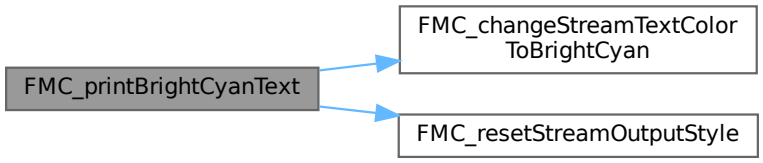
3.56.1.21 FMC_printBrightCyanText()

```
void FMC_printBrightCyanText (
            FILE * stream,
            const char * text )
```

Definition at line 303 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightCyan(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



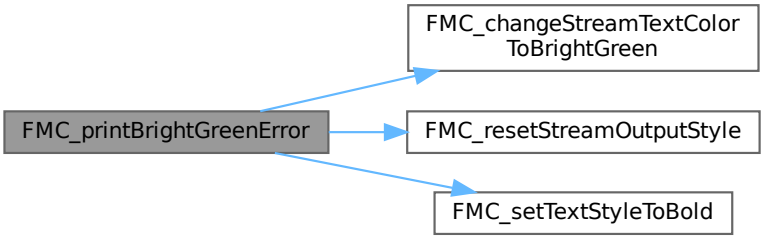
3.56.1.22 FMC_printBrightGreenError()

```
void FMC_printBrightGreenError (
            FILE * stream,
            const char * text )
```

Definition at line 381 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightGreen(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Here is the call graph for this function:



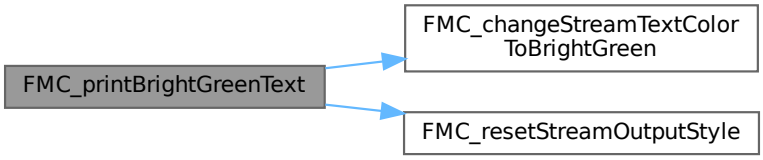
3.56.1.23 FMC_printBrightGreenText()

```
void FMC_printBrightGreenText (
            FILE * stream,
            const char * text )
```

Definition at line 275 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightGreen(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



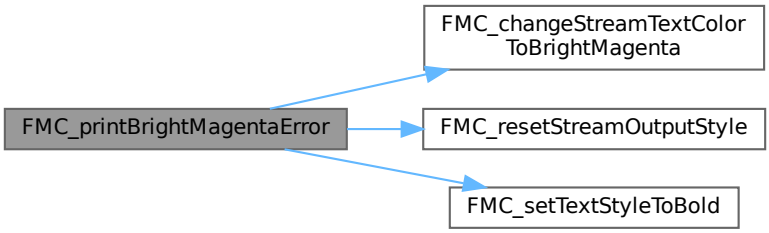
3.56.1.24 FMC_printBrightMagentaError()

```
void FMC_printBrightMagentaError (
            FILE * stream,
            const char * text )
```

Definition at line 405 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightMagenta(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Here is the call graph for this function:



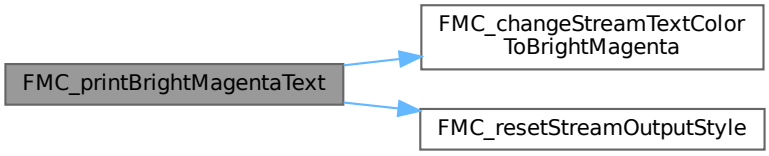
3.56.1.25 FMC_printBrightMagentaText()

```
void FMC_printBrightMagentaText (
            FILE * stream,
            const char * text )
```

Definition at line 296 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightMagenta(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



3.56.1.26 FMC_printBrightRedError()

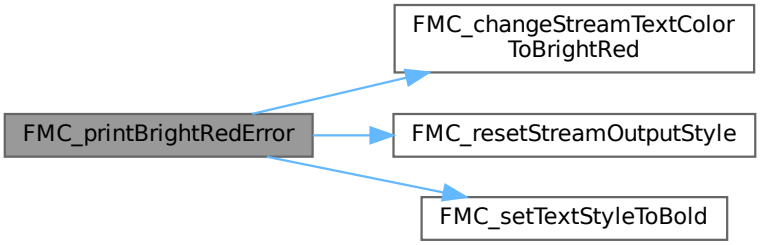
```
void FMC_printBrightRedError (
            FILE * stream,
            const char * text )
```

Definition at line 373 of file FMC_errors.h.

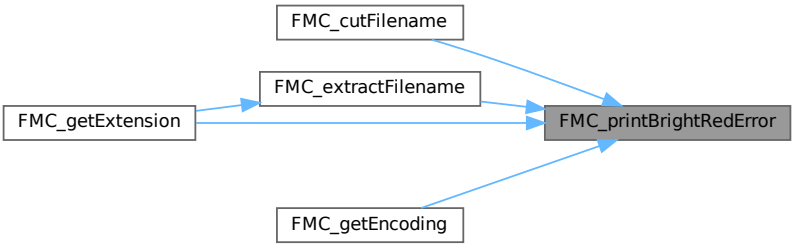
References FMC_changeStreamTextColorToBrightRed(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Referenced by FMC_cutFilename(), FMC_extractFilename(), FMC_getEncoding(), and FMC_getExtension().

Here is the call graph for this function:



Here is the caller graph for this function:



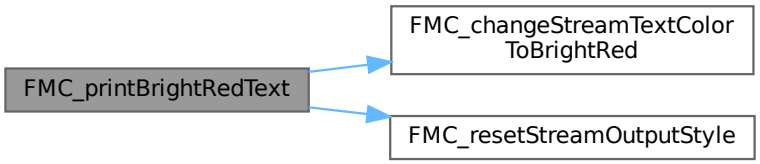
3.56.1.27 FMC_printBrightRedText()

```
void FMC_printBrightRedText (
            FILE * stream,
            const char * text )
```

Definition at line 268 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightRed(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



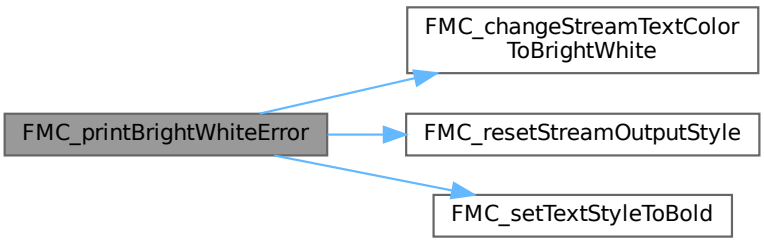
3.56.1.28 FMC_printBrightWhiteError()

```
void FMC_printBrightWhiteError (
            FILE * stream,
            const char * text )
```

Definition at line 421 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightWhite(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Here is the call graph for this function:



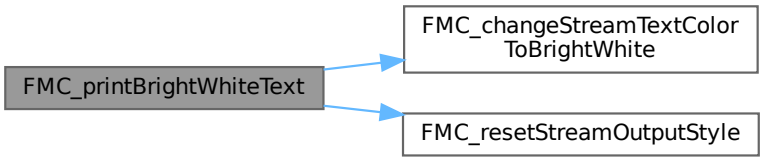
3.56.1.29 FMC_printBrightWhiteText()

```
void FMC_printBrightWhiteText (
            FILE * stream,
            const char * text )
```

Definition at line 310 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightWhite(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



3.56.1.30 FMC_printBrightYellowError()

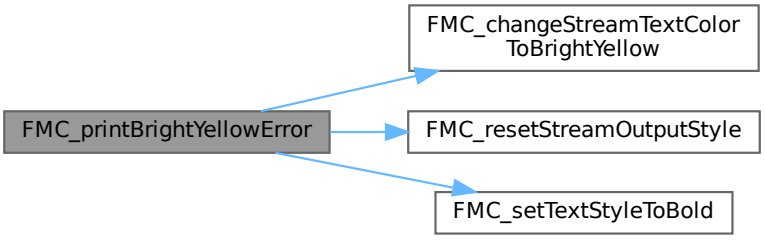
```
void FMC_printBrightYellowError (
            FILE * stream,
            const char * text )
```

Definition at line 389 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightYellow(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Referenced by FMC_getEncoding().

Here is the call graph for this function:



Here is the caller graph for this function:

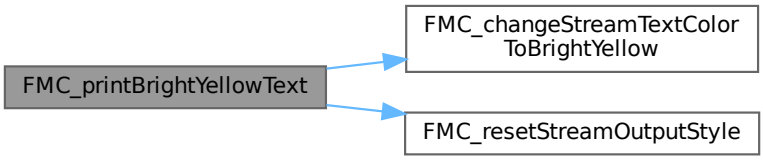
3.56.1.31 FMC_printBrightYellowText()

```
void FMC_printBrightYellowText (
            FILE * stream,
            const char * text )
```

Definition at line 282 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightYellow(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



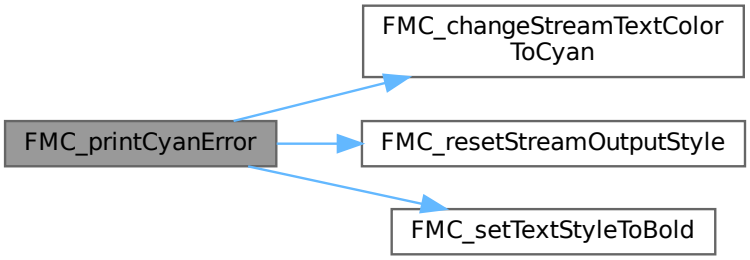
3.56.1.32 FMC_printCyanError()

```
void FMC_printCyanError (
            FILE * stream,
            const char * text )
```

Definition at line 357 of file FMC_errors.h.

References FMC_changeStreamTextColorToCyan(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Here is the call graph for this function:



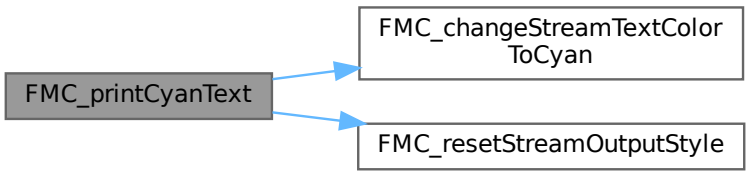
3.56.1.33 FMC_printCyanText()

```
void FMC_printCyanText (
            FILE * stream,
            const char * text )
```

Definition at line 254 of file FMC_errors.h.

References FMC_changeStreamTextColorToCyan(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



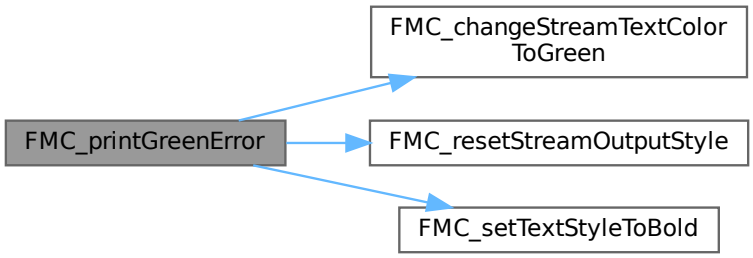
3.56.1.34 FMC_printGreenError()

```
void FMC_printGreenError (
            FILE * stream,
            const char * text )
```

Definition at line 325 of file FMC_errors.h.

References FMC_changeStreamTextColorToGreen(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Here is the call graph for this function:



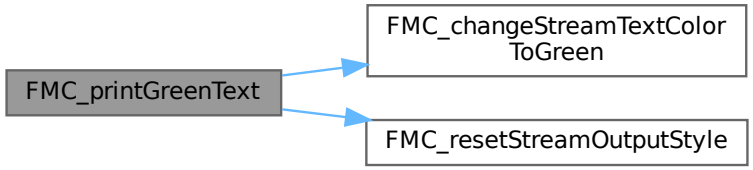
3.56.1.35 FMC_printGreenText()

```
void FMC_printGreenText (
            FILE * stream,
            const char * text )
```

Definition at line 226 of file FMC_errors.h.

References FMC_changeStreamTextColorToGreen(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



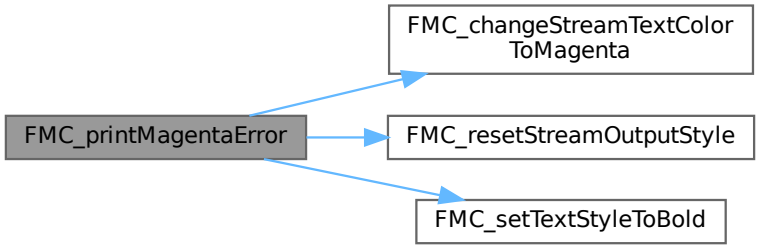
3.56.1.36 FMC_printMagentaError()

```
void FMC_printMagentaError (
            FILE * stream,
            const char * text )
```

Definition at line 349 of file FMC_errors.h.

References FMC_changeStreamTextColorToMagenta(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Here is the call graph for this function:



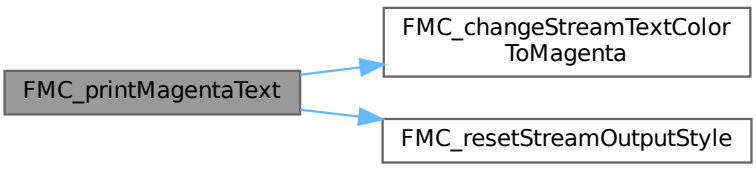
3.56.1.37 FMC_printMagentaText()

```
void FMC_printMagentaText (
            FILE * stream,
            const char * text )
```

Definition at line 247 of file FMC_errors.h.

References FMC_changeStreamTextColorToMagenta(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



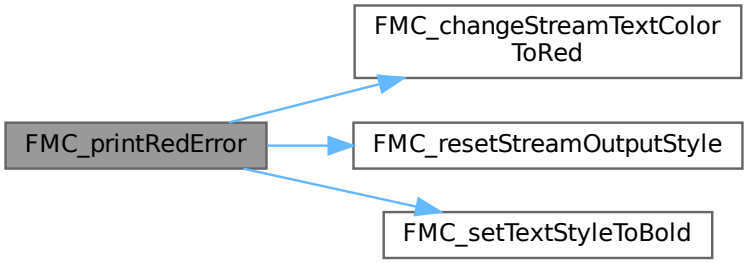
3.56.1.38 FMC_printRedError()

```
void FMC_printRedError (
            FILE * stream,
            const char * text )
```

Definition at line 317 of file FMC_errors.h.

References FMC_changeStreamTextColorToRed(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Here is the call graph for this function:



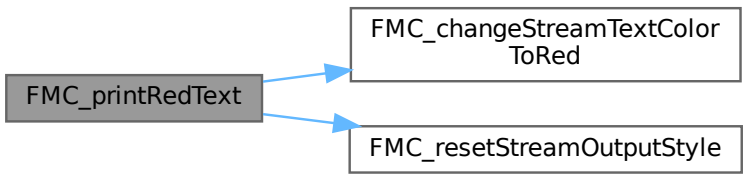
3.56.1.39 FMC_printRedText()

```
void FMC_printRedText (
            FILE * stream,
            const char * text )
```

Definition at line 219 of file FMC_errors.h.

References FMC_changeStreamTextColorToRed(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



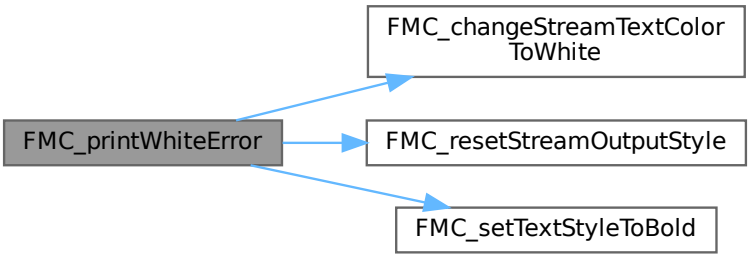
3.56.1.40 FMC_printWhiteError()

```
void FMC_printWhiteError (
            FILE * stream,
            const char * text )
```

Definition at line 365 of file FMC_errors.h.

References FMC_changeStreamTextColorToWhite(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Here is the call graph for this function:



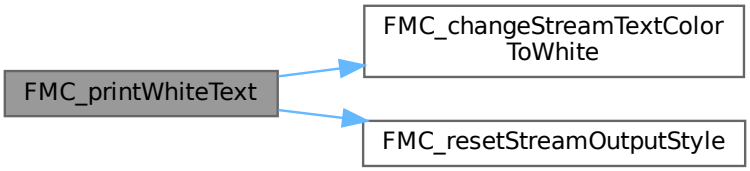
3.56.1.41 FMC_printWhiteText()

```
void FMC_printWhiteText (
            FILE * stream,
            const char * text )
```

Definition at line 261 of file FMC_errors.h.

References FMC_changeStreamTextColorToWhite(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



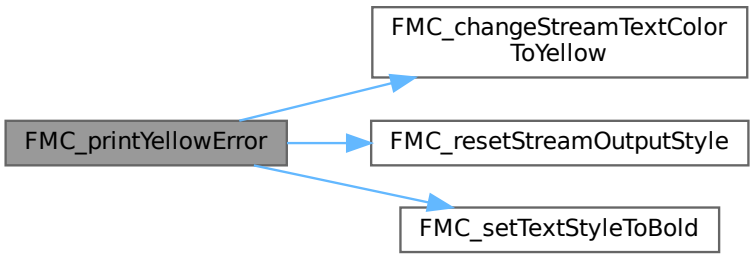
3.56.1.42 FMC_printYellowError()

```
void FMC_printYellowError (
            FILE * stream,
            const char * text )
```

Definition at line 333 of file FMC_errors.h.

References FMC_changeStreamTextColorToYellow(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Here is the call graph for this function:



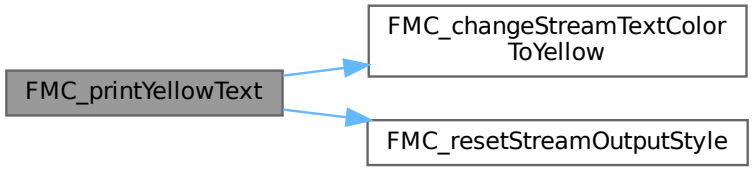
3.56.1.43 FMC_printYellowText()

```
void FMC_printYellowText (
            FILE * stream,
            const char * text )
```

Definition at line 233 of file FMC_errors.h.

References FMC_changeStreamTextColorToYellow(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



3.56.1.44 FMC_resetStreamOutputStyle()

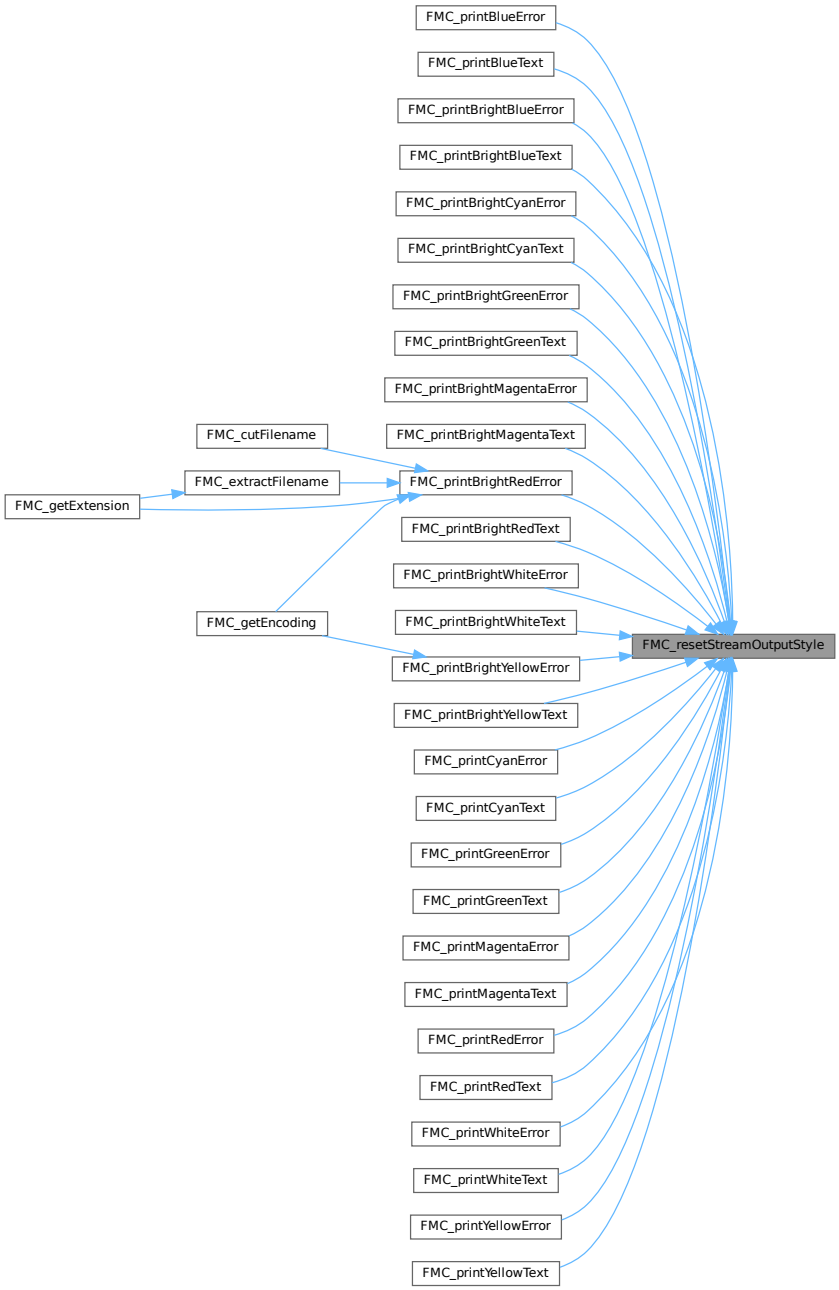
```
void FMC_resetStreamOutputStyle (
            FILE * stream )
```

Definition at line 42 of file FMC_errors.h.

References RESET.

Referenced by FMC_printBlueError(), FMC_printBlueText(), FMC_printBrightBlueError(), FMC_printBrightBlueText(), FMC_printBrightCyanError(), FMC_printBrightCyanText(), FMC_printBrightGreenError(), FMC_printBrightGreenText(), FMC_printBrightMagentaError(), FMC_printBrightMagentaText(), FMC_printBrightRedError(), FMC_printBrightRedText(), FMC_printBrightWhiteError(), FMC_printBrightWhiteText(), FMC_printBrightYellowError(), FMC_printBrightYellowText(), FMC_printCyanError(), FMC_printCyanText(), FMC_printGreenError(), FMC_printGreenText(), FMC_printMagentaError(), FMC_printMagentaText(), FMC_printRedError(), FMC_printRedText(), FMC_printWhiteError(), FMC_printWhiteText(), FMC_printYellowError(), and FMC_printYellowText().

Here is the caller graph for this function:



3.57 FMC_errors.c

Go to the documentation of this file.

```
00001 /*
00002
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```
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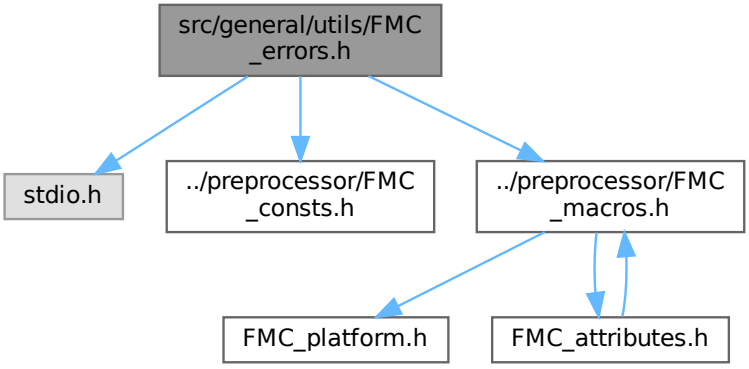
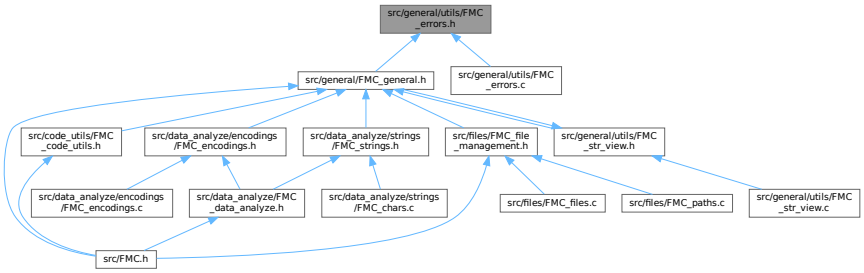
00020 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
00021 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
00027 #include "FMC_errors.h"
00028 #include "../preprocessor/FMC_macros.h"
00029 #include <stdio.h>
00030 #include <stdarg.h>
00031 #include <string.h>
00032
00033 FMC_SHARED FMC_FUNC_NONNULL(1) void FMC_makeMsg_f(char *buff, unsigned int argc, ...)
00034 {
00035     va_list args;
00036     va_start(args, argc);
00037     for (unsigned int i = 0; i < argc; i++)
00038     {
00039         char *arg = va_arg(args, char *);
00040         buff = strcat(buff, arg);
00041     }
00042     va_end(args);
00043 }
00044
00045 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_resetStreamOutputStyle(FILE *stream);
00046 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToRed(FILE *stream);
00047 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToGreen(FILE *stream);
00048 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToYellow(FILE *stream);
00049 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToBlue(FILE *stream);
00050 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToMagenta(FILE *stream);
00051 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToCyan(FILE *stream);
00052 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToWhite(FILE *stream);
00053 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToBrightRed(FILE *stream);
00054 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToBrightGreen(FILE *stream);
00055 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToBrightYellow(FILE *stream);
00056 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToBrightBlue(FILE *stream);
00057 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToBrightMagenta(FILE *stream);
00058 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToBrightCyan(FILE *stream);
00059 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToBrightWhite(FILE *stream);
00060
00061 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printRedText(FILE *stream, const char *text);
00062 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printGreenText(FILE *stream, const char *text);
00063 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printYellowText(FILE *stream, const char *text);
00064 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBlueText(FILE *stream, const char *text);
00065 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printMagentaText(FILE *stream, const char *text);
00066 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printCyanText(FILE *stream, const char *text);
00067 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printWhiteText(FILE *stream, const char *text);
00068 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightRedText(FILE *stream, const char *text);
00069 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightGreenText(FILE *stream, const char *text);
00070 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightYellowText(FILE *stream, const char
      *text);
00071 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightBlueText(FILE *stream, const char *text);
00072 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightMagentaText(FILE *stream, const char
      *text);
00073 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightCyanText(FILE *stream, const char *text);
00074 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightWhiteText(FILE *stream, const char *text);
00075
00076 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printRedError(FILE *stream, const char *text);
00077 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printGreenError(FILE *stream, const char *text);
00078 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printYellowError(FILE *stream, const char *text);
00079 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBlueError(FILE *stream, const char *text);
00080 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printMagentaError(FILE *stream, const char *text);
00081 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printCyanError(FILE *stream, const char *text);
00082 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printWhiteError(FILE *stream, const char *text);
00083 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightRedError(FILE *stream, const char *text);
00084 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightGreenError(FILE *stream, const char
      *text);
00085 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightYellowError(FILE *stream, const char
      *text);
00086 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightBlueError(FILE *stream, const char *text);
00087 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightMagentaError(FILE *stream, const char
      *text);
00088 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightCyanError(FILE *stream, const char *text);
00089 extern FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightWhiteError(FILE *stream, const char
      *text);
```

3.58 src/general/utils/FMC_errors.h File Reference

Include dependency graph for FMC_errors.h:



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



Macros

- #define FMC_ERRORS
- #define FMC_makeMsg(err_var_name, argc, ...)

Functions

- void FMC_changeStreamTextColorToBlue (FILE ∗stream)
- void FMC_changeStreamTextColorToBrightBlue (FILE ∗stream)
- void FMC_changeStreamTextColorToBrightCyan (FILE ∗stream)
- void FMC_changeStreamTextColorToBrightGreen (FILE ∗stream)
- void FMC_changeStreamTextColorToBrightMagenta (FILE ∗stream)
- void FMC_changeStreamTextColorToBrightRed (FILE ∗stream)
- void FMC_changeStreamTextColorToBrightWhite (FILE ∗stream)
- void FMC_changeStreamTextColorToBrightYellow (FILE ∗stream)

- void FMC_changeStreamTextColorToCyan (FILE *stream)
- void FMC_changeStreamTextColorToGreen (FILE *stream)
- void FMC_changeStreamTextColorToMagenta (FILE *stream)
- void FMC_changeStreamTextColorToRed (FILE *stream)
- void FMC_changeStreamTextColorToWhite (FILE *stream)
- void FMC_changeStreamTextColorToYellow (FILE *stream)
- void FMC_makeMsg_f (char *buff, unsigned int argc,...)
- void FMC_printBlueError (FILE *stream, const char *text)
- void FMC_printBlueText (FILE *stream, const char *text)
- void FMC_printBrightBlueError (FILE *stream, const char *text)
- void FMC_printBrightBlueText (FILE *stream, const char *text)
- void FMC_printBrightCyanError (FILE *stream, const char *text)
- void FMC_printBrightCyanText (FILE *stream, const char *text)
- void FMC_printBrightGreenError (FILE *stream, const char *text)
- void FMC_printBrightGreenText (FILE *stream, const char *text)
- void FMC_printBrightMagentaError (FILE *stream, const char *text)
- void FMC_printBrightMagentaText (FILE *stream, const char *text)
- void FMC_printBrightRedError (FILE *stream, const char *text)
- void FMC_printBrightRedText (FILE *stream, const char *text)
- void FMC_printBrightWhiteError (FILE *stream, const char *text)
- void FMC_printBrightWhiteText (FILE *stream, const char *text)
- void FMC_printBrightYellowError (FILE *stream, const char *text)
- void FMC_printBrightYellowText (FILE *stream, const char *text)
- void FMC_printCyanError (FILE *stream, const char *text)
- void FMC_printCyanText (FILE *stream, const char *text)
- void FMC_printGreenError (FILE *stream, const char *text)
- void FMC_printGreenText (FILE *stream, const char *text)
- void FMC_printMagentaError (FILE *stream, const char *text)
- void FMC_printMagentaText (FILE *stream, const char *text)
- void FMC_printRedError (FILE *stream, const char *text)
- void FMC_printRedText (FILE *stream, const char *text)
- void FMC_printWhiteError (FILE *stream, const char *text)
- void FMC_printWhiteText (FILE *stream, const char *text)
- void FMC_printYellowError (FILE *stream, const char *text)
- void FMC_printYellowText (FILE *stream, const char *text)
- void FMC_resetStreamOutputStyle (FILE *stream)
- void FMC_setBGStreamColorToBlue (FILE *stream)
- void FMC_setBGStreamColorToBrightBlue (FILE *stream)
- void FMC_setBGStreamColorToBrightCyan (FILE *stream)
- void FMC_setBGStreamColorToBrightGreen (FILE *stream)
- void FMC_setBGStreamColorToBrightMagenta (FILE *stream)
- void FMC_setBGStreamColorToBrightRed (FILE *stream)
- void FMC_setBGStreamColorToBrightWhite (FILE *stream)
- void FMC_setBGStreamColorToBrightYellow (FILE *stream)
- void FMC_setBGStreamColorToCyan (FILE *stream)
- void FMC_setBGStreamColorToGreen (FILE *stream)
- void FMC_setBGStreamColorToMagenta (FILE *stream)
- void FMC_setBGStreamColorToRed (FILE *stream)
- void FMC_setBGStreamColorToWhite (FILE *stream)
- void FMC_setBGStreamColorToYellow (FILE *stream)
- void FMC_setTextStyleToBlink (FILE *stream)
- void FMC_setTextStyleToBold (FILE *stream)
- void FMC_setTextStyleToDim (FILE *stream)
- void FMC_setTextStyleToHidden (FILE *stream)
- void FMC_setTextStyleToReverse (FILE *stream)
- void FMC_setTextStyleToUnderlined (FILE *stream)

3.58.1 Macro Definition Documentation

3.58.1.1 FMC_ERRORS

```
#define FMC_ERRORS
```

Definition at line 30 of file FMC_errors.h.

3.58.1.2 FMC_makeMsg

```
#define FMC_makeMsg(
              err_var_name,
              argc,
              ...  )
```

Value:

```
    char err_var_name[256] = {"\0"};                \
    FMC_makeMsg_f(err_var_name, argc, __VA_ARGS__)
```

Definition at line 38 of file FMC_errors.h.

3.58.2 Function Documentation

3.58.2.1 FMC_changeStreamTextColorToBlue()

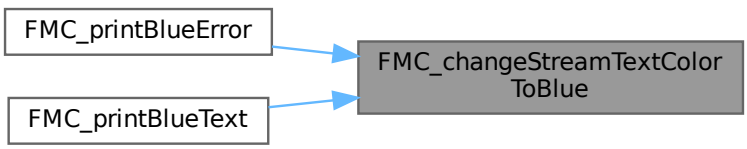
```
void FMC_changeStreamTextColorToBlue (
            FILE * stream )
```

Definition at line 63 of file FMC_errors.h.

References FG_BLUE.

Referenced by FMC_printBlueError(), and FMC_printBlueText().

Here is the caller graph for this function:



3.58.2.2 FMC_changeStreamTextColorToBrightBlue()

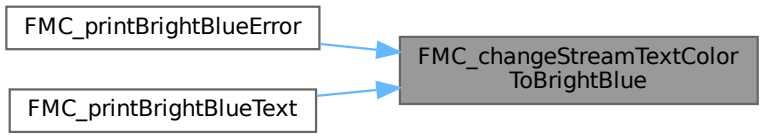
```
void FMC_changeStreamTextColorToBrightBlue (
            FILE * stream )
```

Definition at line 98 of file FMC_errors.h.

References FG_BRIGHT_BLUE.

Referenced by FMC_printBrightBlueError(), and FMC_printBrightBlueText().

Here is the caller graph for this function:



3.58.2.3 FMC_changeStreamTextColorToBrightCyan()

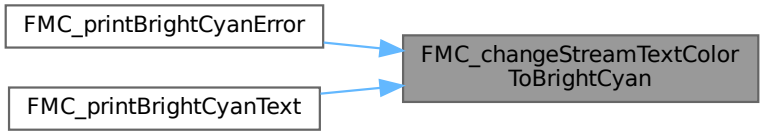
```
void FMC_changeStreamTextColorToBrightCyan (
            FILE * stream )
```

Definition at line 108 of file FMC_errors.h.

References FG_BRIGHT_CYAN.

Referenced by FMC_printBrightCyanError(), and FMC_printBrightCyanText().

Here is the caller graph for this function:



3.58.2.4 FMC_changeStreamTextColorToBrightGreen()

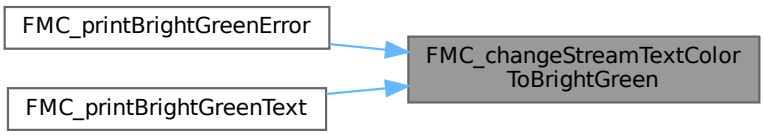
```
void FMC_changeStreamTextColorToBrightGreen (
            FILE * stream )
```

Definition at line 88 of file FMC_errors.h.

References FG_BRIGHT_GREEN.

Referenced by FMC_printBrightGreenError(), and FMC_printBrightGreenText().

Here is the caller graph for this function:



3.58.2.5 FMC_changeStreamTextColorToBrightMagenta()

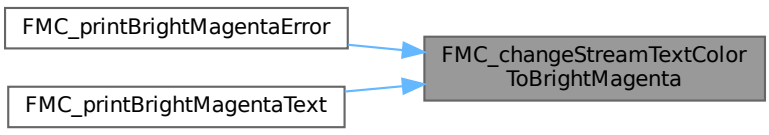
```
void FMC_changeStreamTextColorToBrightMagenta (
            FILE * stream )
```

Definition at line 103 of file FMC_errors.h.

References FG_BRIGHT_MAGENTA.

Referenced by FMC_printBrightMagentaError(), and FMC_printBrightMagentaText().

Here is the caller graph for this function:



3.58.2.6 FMC_changeStreamTextColorToBrightRed()

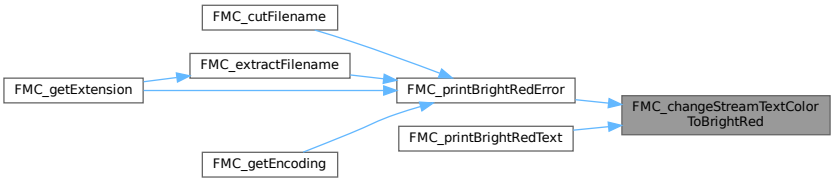
```
void FMC_changeStreamTextColorToBrightRed (
            FILE * stream )
```

Definition at line 83 of file FMC_errors.h.

References FG_BRIGHT_RED.

Referenced by FMC_printBrightRedError(), and FMC_printBrightRedText().

Here is the caller graph for this function:



3.58.2.7 FMC_changeStreamTextColorToBrightWhite()

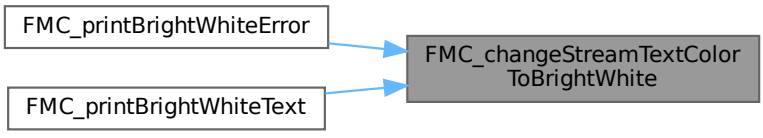
```
void FMC_changeStreamTextColorToBrightWhite (
            FILE * stream )
```

Definition at line 113 of file FMC_errors.h.

References FG_BRIGHT_WHITE.

Referenced by FMC_printBrightWhiteError(), and FMC_printBrightWhiteText().

Here is the caller graph for this function:



3.58.2.8 FMC_changeStreamTextColorToBrightYellow()

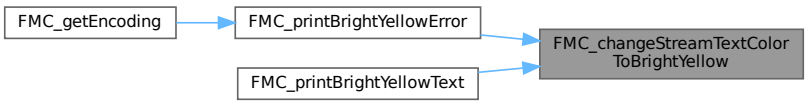
```
void FMC_changeStreamTextColorToBrightYellow (
            FILE * stream )
```

Definition at line 93 of file FMC_errors.h.

References FG_BRIGHT_YELLOW.

Referenced by FMC_printBrightYellowError(), and FMC_printBrightYellowText().

Here is the caller graph for this function:



3.58.2.9 FMC_changeStreamTextColorToCyan()

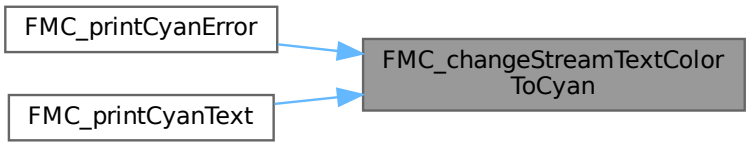
```
void FMC_changeStreamTextColorToCyan (
            FILE * stream )
```

Definition at line 73 of file FMC_errors.h.

References FG_CYAN.

Referenced by FMC_printCyanError(), and FMC_printCyanText().

Here is the caller graph for this function:



3.58.2.10 FMC_changeStreamTextColorToGreen()

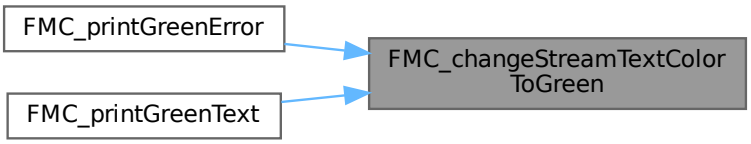
```
void FMC_changeStreamTextColorToGreen (
            FILE * stream )
```

Definition at line 53 of file FMC_errors.h.

References FG_GREEN.

Referenced by FMC_printGreenError(), and FMC_printGreenText().

Here is the caller graph for this function:



3.58.2.11 FMC_changeStreamTextColorToMagenta()

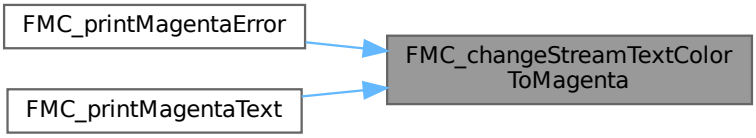
```
void FMC_changeStreamTextColorToMagenta (
            FILE * stream )
```

Definition at line 68 of file FMC_errors.h.

References FG_MAGENTA.

Referenced by FMC_printMagentaError(), and FMC_printMagentaText().

Here is the caller graph for this function:



3.58.2.12 FMC_changeStreamTextColorToRed()

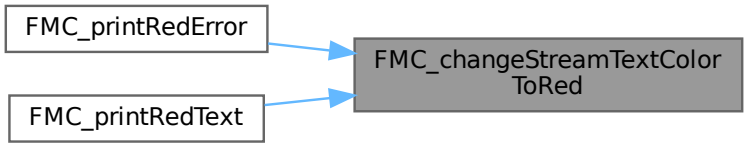
```
void FMC_changeStreamTextColorToRed (
            FILE * stream )
```

Definition at line 48 of file FMC_errors.h.

References FG_RED.

Referenced by FMC_printRedError(), and FMC_printRedText().

Here is the caller graph for this function:



3.58.2.13 FMC_changeStreamTextColorToWhite()

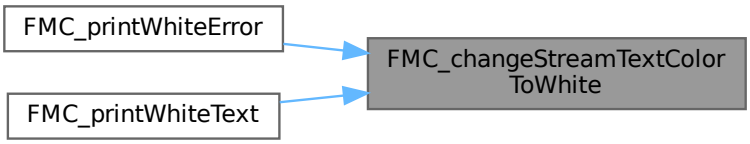
```
void FMC_changeStreamTextColorToWhite (
            FILE * stream )
```

Definition at line 78 of file FMC_errors.h.

References FG_WHITE.

Referenced by FMC_printWhiteError(), and FMC_printWhiteText().

Here is the caller graph for this function:



3.58.2.14 FMC_changeStreamTextColorToYellow()

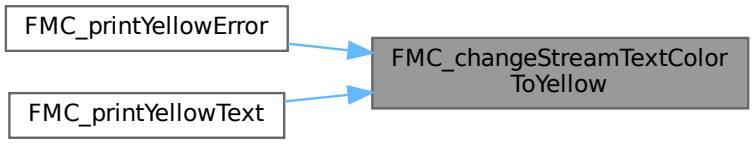
```
void FMC_changeStreamTextColorToYellow (
            FILE * stream )
```

Definition at line 58 of file FMC_errors.h.

References FG_YELLOW.

Referenced by FMC_printYellowError(), and FMC_printYellowText().

Here is the caller graph for this function:



3.58.2.15 FMC_makeMsg_f()

```
void FMC_makeMsg_f (
            char * buff,
            unsigned int argc,
             ... )
```

Definition at line 33 of file FMC_errors.c.

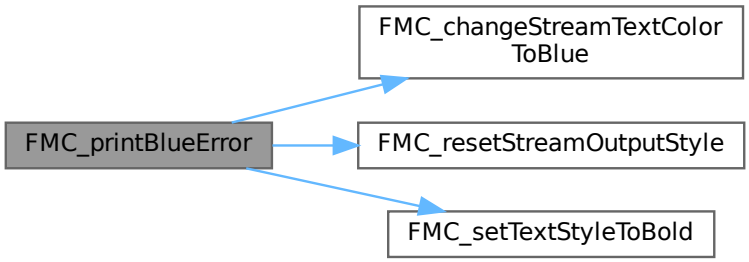
3.58.2.16 FMC_printBlueError()

```
void FMC_printBlueError (
            FILE * stream,
            const char * text )
```

Definition at line 341 of file FMC_errors.h.

References FMC_changeStreamTextColorToBlue(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Here is the call graph for this function:



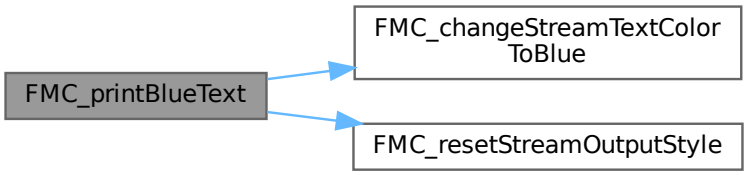
3.58.2.17 FMC_printBlueText()

```
void FMC_printBlueText (
            FILE * stream,
            const char * text )
```

Definition at line 240 of file FMC_errors.h.

References FMC_changeStreamTextColorToBlue(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



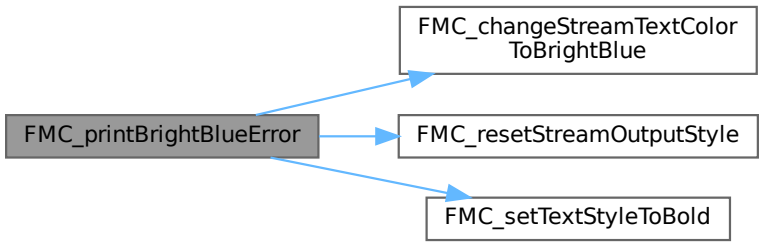
3.58.2.18 FMC_printBrightBlueError()

```
void FMC_printBrightBlueError (
            FILE * stream,
            const char * text )
```

Definition at line 397 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightBlue(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Here is the call graph for this function:



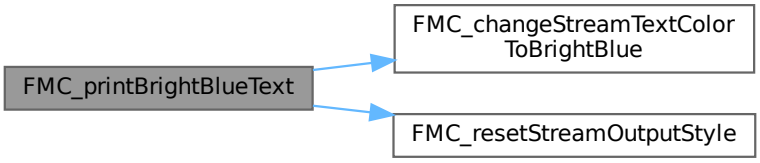
3.58.2.19 FMC_printBrightBlueText()

```
void FMC_printBrightBlueText (
            FILE * stream,
            const char * text )
```

Definition at line 289 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightBlue(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



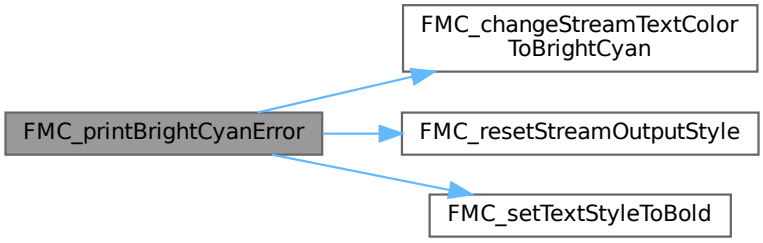
3.58.2.20 FMC_printBrightCyanError()

```
void FMC_printBrightCyanError (
            FILE * stream,
            const char * text )
```

Definition at line 413 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightCyan(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Here is the call graph for this function:



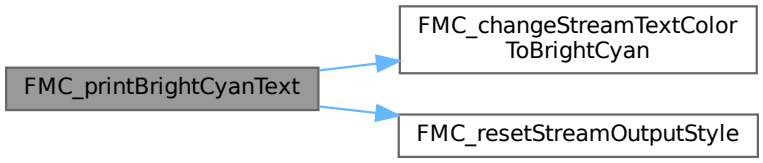
3.58.2.21 FMC_printBrightCyanText()

```
void FMC_printBrightCyanText (
            FILE * stream,
            const char * text )
```

Definition at line 303 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightCyan(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



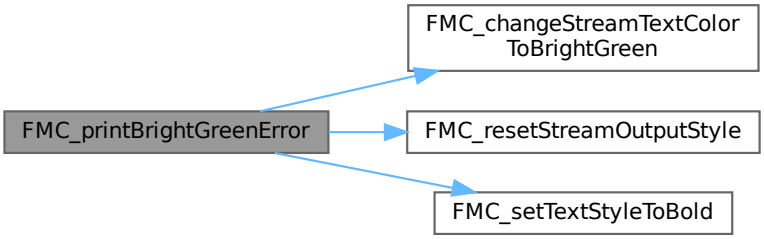
3.58.2.22 FMC_printBrightGreenError()

```
void FMC_printBrightGreenError (
            FILE * stream,
            const char * text )
```

Definition at line 381 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightGreen(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Here is the call graph for this function:



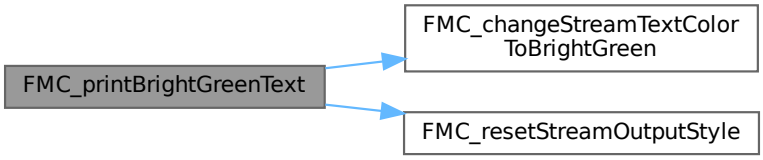
3.58.2.23 FMC_printBrightGreenText()

```
void FMC_printBrightGreenText (
            FILE * stream,
            const char * text )
```

Definition at line 275 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightGreen(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



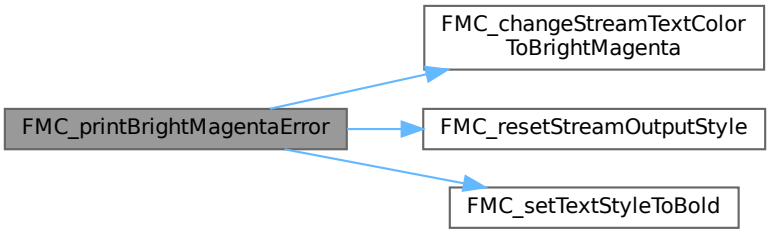
3.58.2.24 FMC_printBrightMagentaError()

```
void FMC_printBrightMagentaError (
            FILE * stream,
            const char * text )
```

Definition at line 405 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightMagenta(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Here is the call graph for this function:



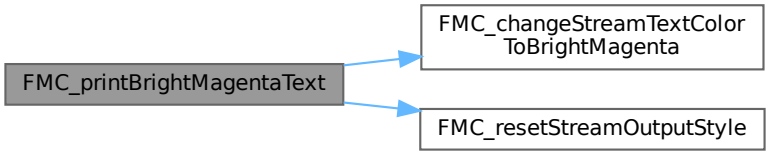
3.58.2.25 FMC_printBrightMagentaText()

```
void FMC_printBrightMagentaText (
            FILE * stream,
            const char * text )
```

Definition at line 296 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightMagenta(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



3.58.2.26 FMC_printBrightRedError()

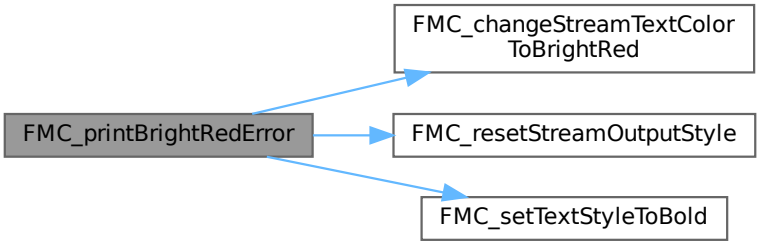
```
void FMC_printBrightRedError (
            FILE * stream,
            const char * text )
```

Definition at line 373 of file FMC_errors.h.

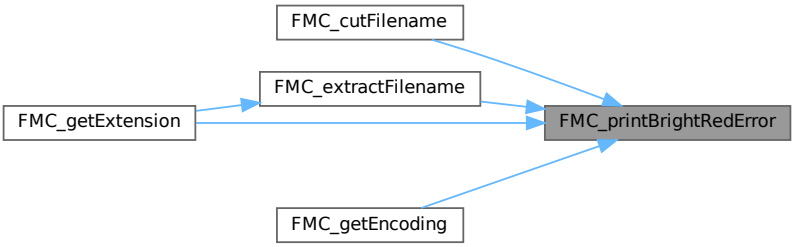
References FMC_changeStreamTextColorToBrightRed(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Referenced by FMC_cutFilename(), FMC_extractFilename(), FMC_getEncoding(), and FMC_getExtension().

Here is the call graph for this function:



Here is the caller graph for this function:



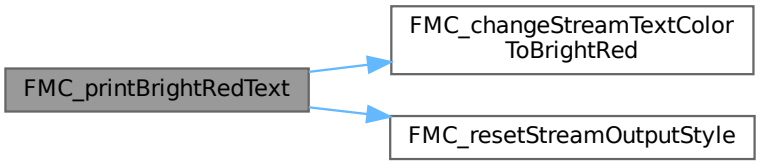
3.58.2.27 FMC_printBrightRedText()

```
void FMC_printBrightRedText (
            FILE * stream,
            const char * text )
```

Definition at line 268 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightRed(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



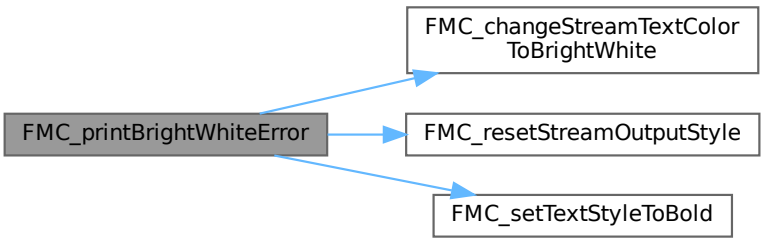
3.58.2.28 FMC_printBrightWhiteError()

```
void FMC_printBrightWhiteError (
            FILE * stream,
            const char * text )
```

Definition at line 421 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightWhite(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Here is the call graph for this function:



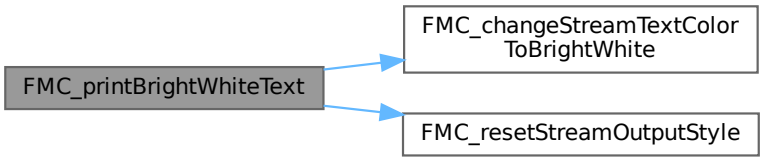
3.58.2.29 FMC_printBrightWhiteText()

```
void FMC_printBrightWhiteText (
            FILE * stream,
            const char * text )
```

Definition at line 310 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightWhite(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



3.58.2.30 FMC_printBrightYellowError()

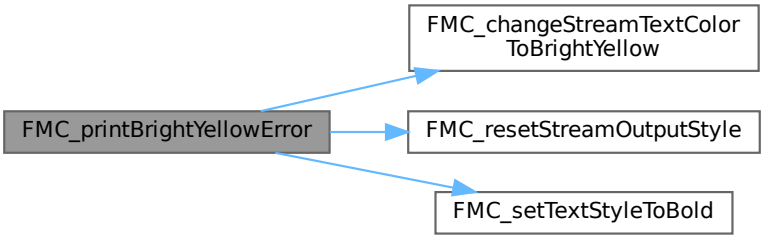
```
void FMC_printBrightYellowError (
            FILE * stream,
            const char * text )
```

Definition at line 389 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightYellow(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Referenced by FMC_getEncoding().

Here is the call graph for this function:



Here is the caller graph for this function:

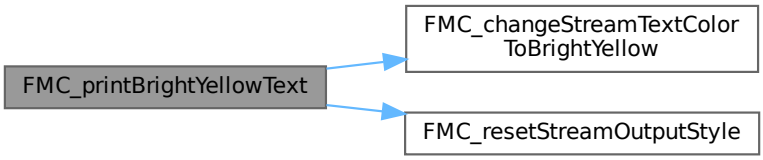
3.58.2.31 FMC_printBrightYellowText()

```
void FMC_printBrightYellowText (
            FILE * stream,
            const char * text )
```

Definition at line 282 of file FMC_errors.h.

References FMC_changeStreamTextColorToBrightYellow(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



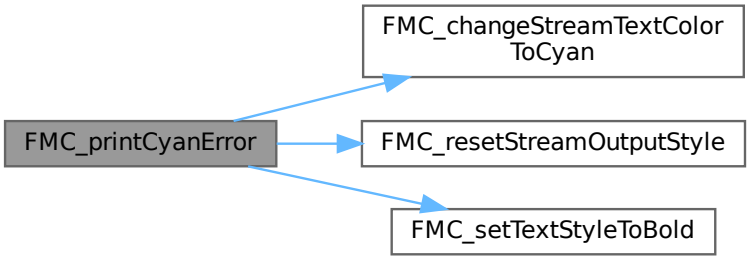
3.58.2.32 FMC_printCyanError()

```
void FMC_printCyanError (
            FILE * stream,
            const char * text )
```

Definition at line 357 of file FMC_errors.h.

References FMC_changeStreamTextColorToCyan(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Here is the call graph for this function:



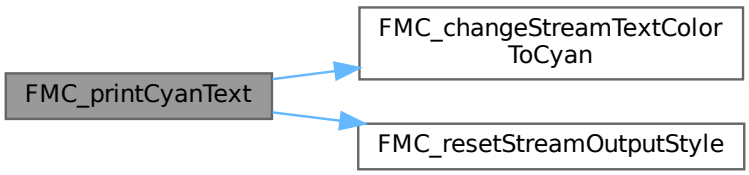
3.58.2.33 FMC_printCyanText()

```
void FMC_printCyanText (
            FILE * stream,
            const char * text )
```

Definition at line 254 of file FMC_errors.h.

References FMC_changeStreamTextColorToCyan(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



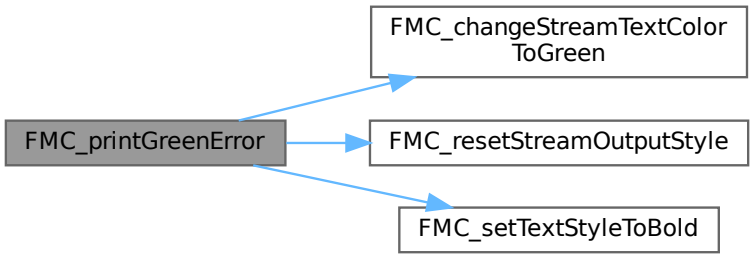
3.58.2.34 FMC_printGreenError()

```
void FMC_printGreenError (
            FILE * stream,
            const char * text )
```

Definition at line 325 of file FMC_errors.h.

References FMC_changeStreamTextColorToGreen(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Here is the call graph for this function:



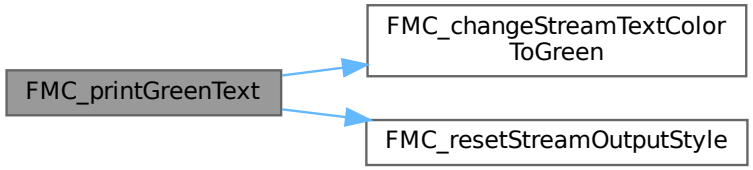
3.58.2.35 FMC_printGreenText()

```
void FMC_printGreenText (
            FILE * stream,
            const char * text )
```

Definition at line 226 of file FMC_errors.h.

References FMC_changeStreamTextColorToGreen(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



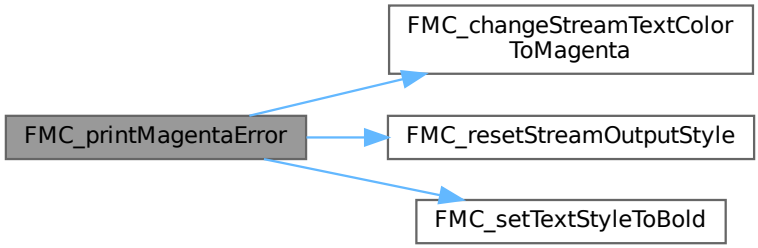
3.58.2.36 FMC_printMagentaError()

```
void FMC_printMagentaError (
            FILE * stream,
            const char * text )
```

Definition at line 349 of file FMC_errors.h.

References FMC_changeStreamTextColorToMagenta(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Here is the call graph for this function:



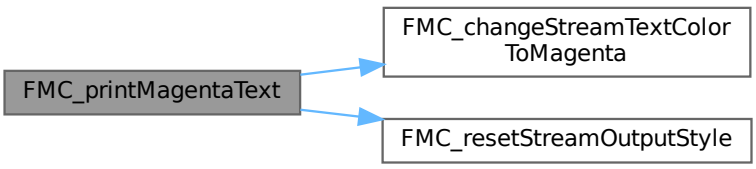
3.58.2.37 FMC_printMagentaText()

```
void FMC_printMagentaText (
            FILE * stream,
            const char * text )
```

Definition at line 247 of file FMC_errors.h.

References FMC_changeStreamTextColorToMagenta(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



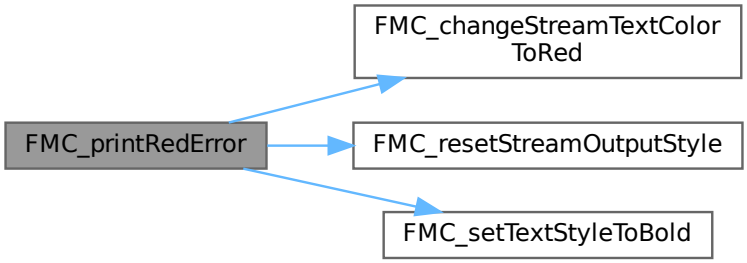
3.58.2.38 FMC_printRedError()

```
void FMC_printRedError (
            FILE * stream,
            const char * text )
```

Definition at line 317 of file FMC_errors.h.

References FMC_changeStreamTextColorToRed(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Here is the call graph for this function:



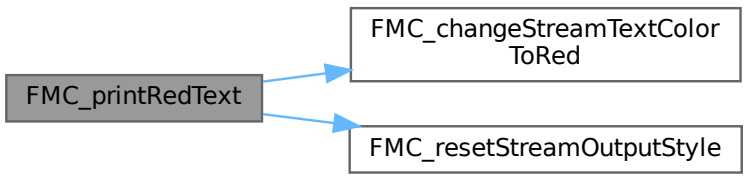
3.58.2.39 FMC_printRedText()

```
void FMC_printRedText (
            FILE * stream,
            const char * text )
```

Definition at line 219 of file FMC_errors.h.

References FMC_changeStreamTextColorToRed(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



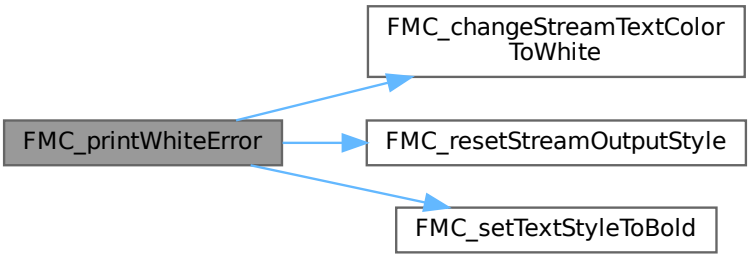
3.58.2.40 FMC_printWhiteError()

```
void FMC_printWhiteError (
            FILE * stream,
            const char * text )
```

Definition at line 365 of file FMC_errors.h.

References FMC_changeStreamTextColorToWhite(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Here is the call graph for this function:



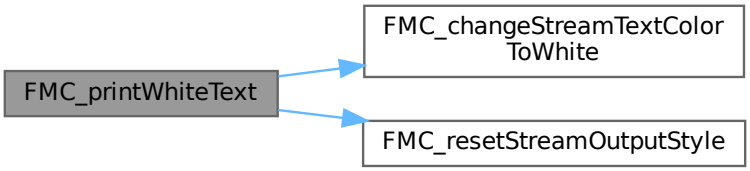
3.58.2.41 FMC_printWhiteText()

```
void FMC_printWhiteText (
            FILE * stream,
            const char * text )
```

Definition at line 261 of file FMC_errors.h.

References FMC_changeStreamTextColorToWhite(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



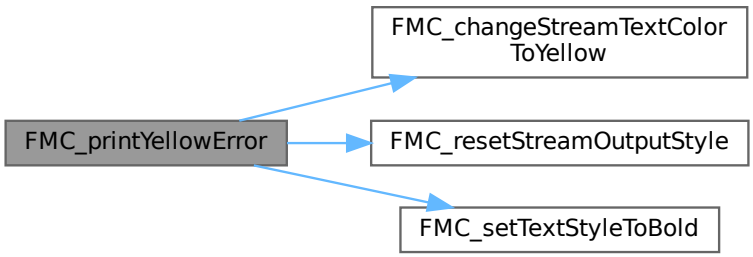
3.58.2.42 FMC_printYellowError()

```
void FMC_printYellowError (
            FILE * stream,
            const char * text )
```

Definition at line 333 of file FMC_errors.h.

References FMC_changeStreamTextColorToYellow(), FMC_resetStreamOutputStyle(), and FMC_setTextStyleToBold().

Here is the call graph for this function:



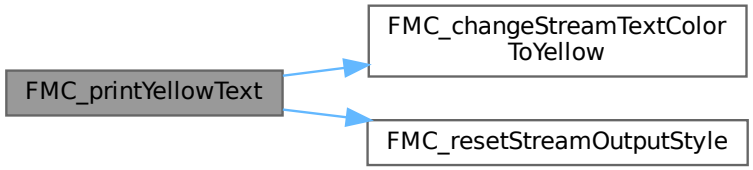
3.58.2.43 FMC_printYellowText()

```
void FMC_printYellowText (
            FILE * stream,
            const char * text )
```

Definition at line 233 of file FMC_errors.h.

References FMC_changeStreamTextColorToYellow(), and FMC_resetStreamOutputStyle().

Here is the call graph for this function:



3.58.2.44 FMC_resetStreamOutputStyle()

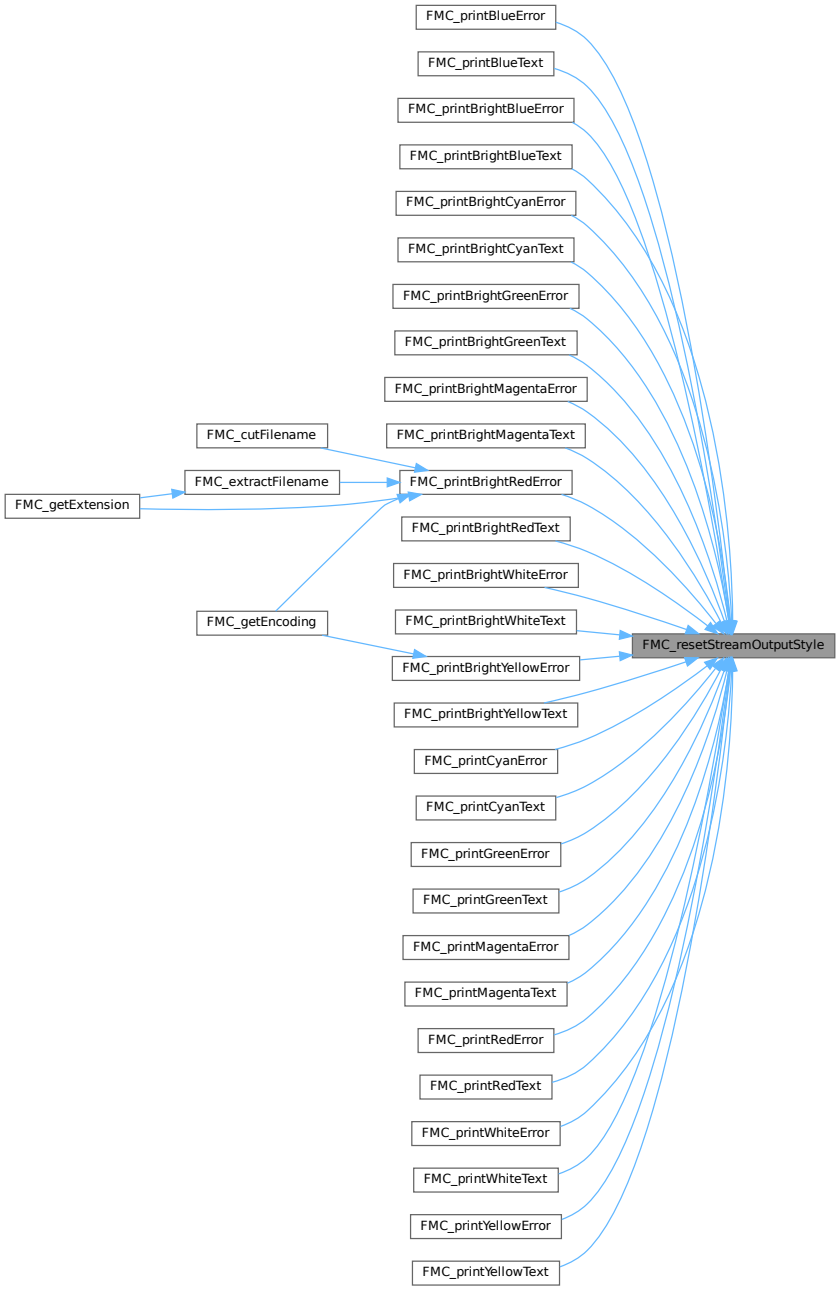
```
void FMC_resetStreamOutputStyle (
            FILE * stream )
```

Definition at line 42 of file FMC_errors.h.

References RESET.

Referenced by FMC_printBlueError(), FMC_printBlueText(), FMC_printBrightBlueError(), FMC_printBrightBlueText(), FMC_printBrightCyanError(), FMC_printBrightCyanText(), FMC_printBrightGreenError(), FMC_printBrightGreenText(), FMC_printBrightMagentaError(), FMC_printBrightMagentaText(), FMC_printBrightRedError(), FMC_printBrightRedText(), FMC_printBrightWhiteError(), FMC_printBrightWhiteText(), FMC_printBrightYellowError(), FMC_printBrightYellowText(), FMC_printCyanError(), FMC_printCyanText(), FMC_printGreenError(), FMC_printGreenText(), FMC_printMagentaError(), FMC_printMagentaText(), FMC_printRedError(), FMC_printRedText(), FMC_printWhiteError(), FMC_printWhiteText(), FMC_printYellowError(), and FMC_printYellowText().

Here is the caller graph for this function:



3.58.2.45 FMC_setBGStreamColorToBlue()

```
void FMC_setBGStreamColorToBlue (
            FILE * stream )
```

Definition at line 133 of file FMC_errors.h.

References BG_BLUE.

3.58.2.46 FMC_setBGStreamColorToBrightBlue()

```
void FMC_setBGStreamColorToBrightBlue (
            FILE * stream )
```

Definition at line 168 of file FMC_errors.h.

References BG_BRIGHT_BLUE.

3.58.2.47 FMC_setBGStreamColorToBrightCyan()

```
void FMC_setBGStreamColorToBrightCyan (
            FILE * stream )
```

Definition at line 178 of file FMC_errors.h.

References BG_BRIGHT_CYAN.

3.58.2.48 FMC_setBGStreamColorToBrightGreen()

```
void FMC_setBGStreamColorToBrightGreen (
            FILE * stream )
```

Definition at line 158 of file FMC_errors.h.

References BG_BRIGHT_GREEN.

3.58.2.49 FMC_setBGStreamColorToBrightMagenta()

```
void FMC_setBGStreamColorToBrightMagenta (
            FILE * stream )
```

Definition at line 173 of file FMC_errors.h.

References BG_BRIGHT_MAGENTA.

3.58.2.50 FMC_setBGStreamColorToBrightRed()

```
void FMC_setBGStreamColorToBrightRed (
            FILE * stream )
```

Definition at line 153 of file FMC_errors.h.

References BG_BRIGHT_RED.

3.58.2.51 FMC_setBGStreamColorToBrightWhite()

```
void FMC_setBGStreamColorToBrightWhite (
            FILE * stream )
```

Definition at line 183 of file FMC_errors.h.

References BG_BRIGHT_WHITE.

3.58.2.52 FMC_setBGStreamColorToBrightYellow()

```
void FMC_setBGStreamColorToBrightYellow (
            FILE * stream )
```

Definition at line 163 of file FMC_errors.h.

References BG_BRIGHT_YELLOW.

3.58.2.53 FMC_setBGStreamColorToCyan()

```
void FMC_setBGStreamColorToCyan (
            FILE * stream )
```

Definition at line 143 of file FMC_errors.h.

References BG_CYAN.

3.58.2.54 FMC_setBGStreamColorToGreen()

```
void FMC_setBGStreamColorToGreen (
            FILE * stream )
```

Definition at line 123 of file FMC_errors.h.

References BG_GREEN.

3.58.2.55 FMC_setBGStreamColorToMagenta()

```
void FMC_setBGStreamColorToMagenta (
            FILE * stream )
```

Definition at line 138 of file FMC_errors.h.

References BG_MAGENTA.

3.58.2.56 FMC_setBGStreamColorToRed()

```
void FMC_setBGStreamColorToRed (
            FILE * stream )
```

Definition at line 118 of file FMC_errors.h.

References BG_RED.

3.58.2.57 FMC_setBGStreamColorToWhite()

```
void FMC_setBGStreamColorToWhite (
            FILE * stream )
```

Definition at line 148 of file FMC_errors.h.

References BG_WHITE.

3.58.2.58 FMC_setBGStreamColorToYellow()

```
void FMC_setBGStreamColorToYellow (
            FILE * stream )
```

Definition at line 128 of file FMC_errors.h.

References BG_YELLOW.

3.58.2.59 FMC_setTextStyleToBlink()

```
void FMC_setTextStyleToBlink (
            FILE * stream )
```

Definition at line 203 of file FMC_errors.h.

References TXT_BLINK.

3.58.2.60 FMC_setTextStyleToBold()

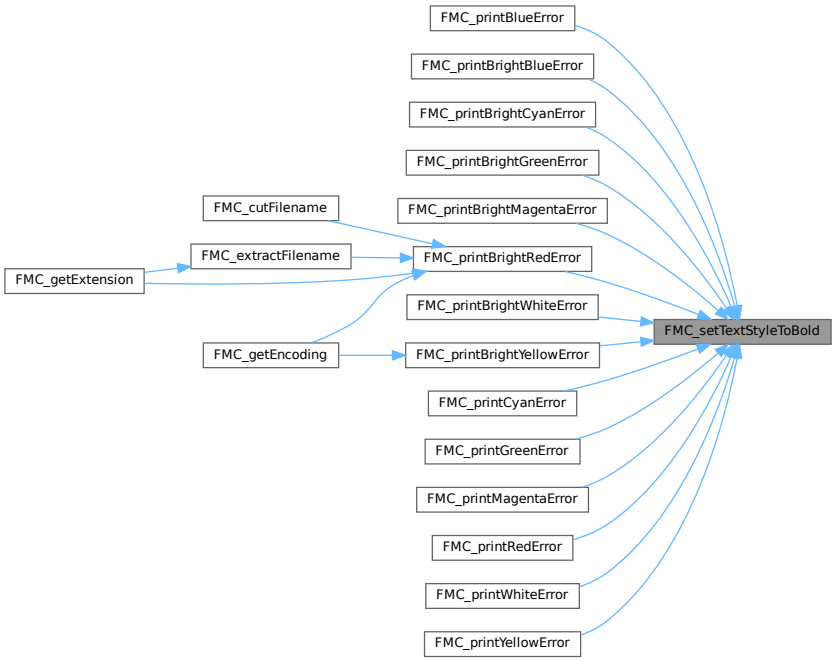
```
void FMC_setTextStyleToBold (
            FILE * stream )
```

Definition at line 188 of file FMC_errors.h.

References TXT_BOLD.

Referenced by FMC_printBlueError(), FMC_printBrightBlueError(), FMC_printBrightCyanError(), FMC_printBrightGreenError(), FMC_printBrightMagentaError(), FMC_printBrightRedError(), FMC_printBrightWhiteError(), FMC_printBrightYellowError(), FMC_printCyanError(), FMC_printGreenError(), FMC_printMagentaError(), FMC_printRedError(), FMC_printWhiteError(), and FMC_printYellowError().

Here is the caller graph for this function:



3.58.2.61 FMC_setTextStyleToDim()

```
void FMC_setTextStyleToDim (
            FILE * stream )
```

Definition at line 193 of file FMC_errors.h.

References TXT_DIM.

3.58.2.62 FMC_setTextStyleToHidden()

```
void FMC_setTextStyleToHidden (
            FILE * stream )
```

Definition at line 213 of file FMC_errors.h.

References TXT_HIDDEN.

3.58.2.63 FMC_setTextStyleToReverse()

```
void FMC_setTextStyleToReverse (
            FILE * stream )
```

Definition at line 208 of file FMC_errors.h.

References TXT_REVERSE.

3.58.2.64 FMC_setTextStyleToUnderlined()

```
void FMC_setTextStyleToUnderlined (
            FILE * stream )
```

Definition at line 198 of file FMC_errors.h.

References TXT_UNDERLINED.

3.59 FMC_errors.h

Go to the documentation of this file.

```
00001 /*
00002
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00004
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00006
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00021 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
00027 #pragma once
```

```
00028
00029 #ifndef FMC_ERRORS
00030 #define FMC_ERRORS
00031
00032 #include <stdio.h>
00033 #include "../preprocessor/FMC_consts.h"
00034 #include "../preprocessor/FMC_macros.h"
00035
00036 FMC_SHARED FMC_FUNC_NONNULL(1) void FMC_makeMsg_f(char *buff, unsigned int argc, ...);
00037
00038 #define FMC_makeMsg(err_var_name, argc, ...)         \
00039     char err_var_name[256] = {"\0"};                 \
00040     FMC_makeMsg_f(err_var_name, argc, __VA_ARGS__)
00041
00042 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_resetStreamOutputStyle(FILE *stream)
00043 {
00044     fprintf(stream, RESET);
00045 }
00046
00047
00048 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToRed(FILE *stream)
00049 {
00050     fprintf(stream, FG_RED);
00051 }
00052
00053 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToGreen(FILE *stream)
00054 {
00055     fprintf(stream, FG_GREEN);
00056 }
00057
00058 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToYellow(FILE *stream)
00059 {
00060     fprintf(stream, FG_YELLOW);
00061 }
00062
00063 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToBlue(FILE *stream)
00064 {
00065     fprintf(stream, FG_BLUE);
00066 }
00067
00068 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToMagenta(FILE *stream)
00069 {
00070     fprintf(stream, FG_MAGENTA);
00071 }
00072
00073 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToCyan(FILE *stream)
00074 {
00075     fprintf(stream, FG_CYAN);
00076 }
00077
00078 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToWhite(FILE *stream)
00079 {
00080     fprintf(stream, FG_WHITE);
00081 }
00082
00083 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToBrightRed(FILE *stream)
00084 {
00085     fprintf(stream, FG_BRIGHT_RED);
00086 }
00087
00088 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToBrightGreen(FILE *stream)
00089 {
00090     fprintf(stream, FG_BRIGHT_GREEN);
00091 }
00092
00093 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToBrightYellow(FILE *stream)
00094 {
00095     fprintf(stream, FG_BRIGHT_YELLOW);
00096 }
00097
00098 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToBrightBlue(FILE *stream)
00099 {
00100     fprintf(stream, FG_BRIGHT_BLUE);
00101 }
00102
00103 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToBrightMagenta(FILE *stream)
00104 {
00105     fprintf(stream, FG_BRIGHT_MAGENTA);
00106 }
00107
00108 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToBrightCyan(FILE *stream)
00109 {
00110     fprintf(stream, FG_BRIGHT_CYAN);
00111 }
00112
00113 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_changeStreamTextColorToBrightWhite(FILE *stream)
00114 {
```

```
00115     fprintf(stream, FG_BRIGHT_WHITE);
00116 }
00117
00118 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_setBGStreamColorToRed(FILE *stream)
00119 {
00120     fprintf(stream, BG_RED);
00121 }
00122
00123 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_setBGStreamColorToGreen(FILE *stream)
00124 {
00125     fprintf(stream, BG_GREEN);
00126 }
00127
00128 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_setBGStreamColorToYellow(FILE *stream)
00129 {
00130     fprintf(stream, BG_YELLOW);
00131 }
00132
00133 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_setBGStreamColorToBlue(FILE *stream)
00134 {
00135     fprintf(stream, BG_BLUE);
00136 }
00137
00138 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_setBGStreamColorToMagenta(FILE *stream)
00139 {
00140     fprintf(stream, BG_MAGENTA);
00141 }
00142
00143 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_setBGStreamColorToCyan(FILE *stream)
00144 {
00145     fprintf(stream, BG_CYAN);
00146 }
00147
00148 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_setBGStreamColorToWhite(FILE *stream)
00149 {
00150     fprintf(stream, BG_WHITE);
00151 }
00152
00153 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_setBGStreamColorToBrightRed(FILE *stream)
00154 {
00155     fprintf(stream, BG_BRIGHT_RED);
00156 }
00157
00158 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_setBGStreamColorToBrightGreen(FILE *stream)
00159 {
00160     fprintf(stream, BG_BRIGHT_GREEN);
00161 }
00162
00163 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_setBGStreamColorToBrightYellow(FILE *stream)
00164 {
00165     fprintf(stream, BG_BRIGHT_YELLOW);
00166 }
00167
00168 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_setBGStreamColorToBrightBlue(FILE *stream)
00169 {
00170     fprintf(stream, BG_BRIGHT_BLUE);
00171 }
00172
00173 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_setBGStreamColorToBrightMagenta(FILE *stream)
00174 {
00175     fprintf(stream, BG_BRIGHT_MAGENTA);
00176 }
00177
00178 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_setBGStreamColorToBrightCyan(FILE *stream)
00179 {
00180     fprintf(stream, BG_BRIGHT_CYAN);
00181 }
00182
00183 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_setBGStreamColorToBrightWhite(FILE *stream)
00184 {
00185     fprintf(stream, BG_BRIGHT_WHITE);
00186 }
00187
00188 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_setTextStyleToBold(FILE *stream)
00189 {
00190     fprintf(stream, TXT_BOLD);
00191 }
00192
00193 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_setTextStyleToDim(FILE *stream)
00194 {
00195     fprintf(stream, TXT_DIM);
00196 }
00197
00198 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_setTextStyleToUnderlined(FILE *stream)
00199 {
00200     fprintf(stream, TXT_UNDERLINED);
00201 }
```

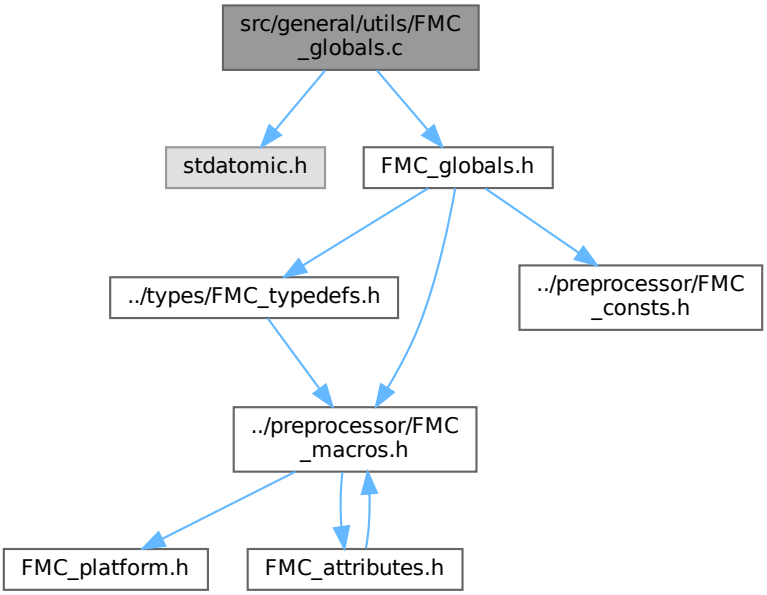
```
00202
00203 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_setTextStyleToBlink(FILE *stream)
00204 {
00205     fprintf(stream, TXT_BLINK);
00206 }
00207
00208 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_setTextStyleToReverse(FILE *stream)
00209 {
00210     fprintf(stream, TXT_REVERSE);
00211 }
00212
00213 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_setTextStyleToHidden(FILE *stream)
00214 {
00215     fprintf(stream, TXT_HIDDEN);
00216 }
00217
00218
00219 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printRedText(FILE *stream, const char *text)
00220 {
00221     FMC_changeStreamTextColorToRed(stream);
00222     fprintf(stream, "%s\n", text);
00223     FMC_resetStreamOutputStyle(stream);
00224 }
00225
00226 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printGreenText(FILE *stream, const char *text)
00227 {
00228     FMC_changeStreamTextColorToGreen(stream);
00229     fprintf(stream, "%s\n", text);
00230     FMC_resetStreamOutputStyle(stream);
00231 }
00232
00233 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printYellowText(FILE *stream, const char *text)
00234 {
00235     FMC_changeStreamTextColorToYellow(stream);
00236     fprintf(stream, "%s\n", text);
00237     FMC_resetStreamOutputStyle(stream);
00238 }
00239
00240 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBlueText(FILE *stream, const char *text)
00241 {
00242     FMC_changeStreamTextColorToBlue(stream);
00243     fprintf(stream, "%s\n", text);
00244     FMC_resetStreamOutputStyle(stream);
00245 }
00246
00247 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printMagentaText(FILE *stream, const char *text)
00248 {
00249     FMC_changeStreamTextColorToMagenta(stream);
00250     fprintf(stream, "%s\n", text);
00251     FMC_resetStreamOutputStyle(stream);
00252 }
00253
00254 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printCyanText(FILE *stream, const char *text)
00255 {
00256     FMC_changeStreamTextColorToCyan(stream);
00257     fprintf(stream, "%s\n", text);
00258     FMC_resetStreamOutputStyle(stream);
00259 }
00260
00261 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printWhiteText(FILE *stream, const char *text)
00262 {
00263     FMC_changeStreamTextColorToWhite(stream);
00264     fprintf(stream, "%s\n", text);
00265     FMC_resetStreamOutputStyle(stream);
00266 }
00267
00268 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightRedText(FILE *stream, const char *text)
00269 {
00270     FMC_changeStreamTextColorToBrightRed(stream);
00271     fprintf(stream, "%s\n", text);
00272     FMC_resetStreamOutputStyle(stream);
00273 }
00274
00275 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightGreenText(FILE *stream, const char *text)
00276 {
00277     FMC_changeStreamTextColorToBrightGreen(stream);
00278     fprintf(stream, "%s\n", text);
00279     FMC_resetStreamOutputStyle(stream);
00280 }
00281
00282 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightYellowText(FILE *stream, const char *text)
00283 {
00284     FMC_changeStreamTextColorToBrightYellow(stream);
00285     fprintf(stream, "%s\n", text);
00286     FMC_resetStreamOutputStyle(stream);
00287 }
00288
```

```
00289 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightBlueText(FILE *stream, const char *text)
00290 {
00291     FMC_changeStreamTextColorToBrightBlue(stream);
00292     fprintf(stream, "%s\n", text);
00293     FMC_resetStreamOutputStyle(stream);
00294 }
00295
00296 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightMagentaText(FILE *stream, const char *text)
00297 {
00298     FMC_changeStreamTextColorToBrightMagenta(stream);
00299     fprintf(stream, "%s\n", text);
00300     FMC_resetStreamOutputStyle(stream);
00301 }
00302
00303 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightCyanText(FILE *stream, const char *text)
00304 {
00305     FMC_changeStreamTextColorToBrightCyan(stream);
00306     fprintf(stream, "%s\n", text);
00307     FMC_resetStreamOutputStyle(stream);
00308 }
00309
00310 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightWhiteText(FILE *stream, const char *text)
00311 {
00312     FMC_changeStreamTextColorToBrightWhite(stream);
00313     fprintf(stream, "%s\n", text);
00314     FMC_resetStreamOutputStyle(stream);
00315 }
00316
00317 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printRedError(FILE *stream, const char *text)
00318 {
00319     FMC_changeStreamTextColorToRed(stream);
00320     FMC_setTextStyleToBold(stream);
00321     fprintf(stream, "%s\n", text);
00322     FMC_resetStreamOutputStyle(stream);
00323 }
00324
00325 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printGreenError(FILE *stream, const char *text)
00326 {
00327     FMC_changeStreamTextColorToGreen(stream);
00328     FMC_setTextStyleToBold(stream);
00329     fprintf(stream, "%s\n", text);
00330     FMC_resetStreamOutputStyle(stream);
00331 }
00332
00333 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printYellowError(FILE *stream, const char *text)
00334 {
00335     FMC_changeStreamTextColorToYellow(stream);
00336     FMC_setTextStyleToBold(stream);
00337     fprintf(stream, "%s\n", text);
00338     FMC_resetStreamOutputStyle(stream);
00339 }
00340
00341 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBlueError(FILE *stream, const char *text)
00342 {
00343     FMC_changeStreamTextColorToBlue(stream);
00344     FMC_setTextStyleToBold(stream);
00345     fprintf(stream, "%s\n", text);
00346     FMC_resetStreamOutputStyle(stream);
00347 }
00348
00349 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printMagentaError(FILE *stream, const char *text)
00350 {
00351     FMC_changeStreamTextColorToMagenta(stream);
00352     FMC_setTextStyleToBold(stream);
00353     fprintf(stream, "%s\n", text);
00354     FMC_resetStreamOutputStyle(stream);
00355 }
00356
00357 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printCyanError(FILE *stream, const char *text)
00358 {
00359     FMC_changeStreamTextColorToCyan(stream);
00360     FMC_setTextStyleToBold(stream);
00361     fprintf(stream, "%s\n", text);
00362     FMC_resetStreamOutputStyle(stream);
00363 }
00364
00365 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printWhiteError(FILE *stream, const char *text)
00366 {
00367     FMC_changeStreamTextColorToWhite(stream);
00368     FMC_setTextStyleToBold(stream);
00369     fprintf(stream, "%s\n", text);
00370     FMC_resetStreamOutputStyle(stream);
00371 }
00372
00373 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightRedError(FILE *stream, const char *text)
00374 {
00375     FMC_changeStreamTextColorToBrightRed(stream);
```

```
00376     FMC_setTextStyleToBold(stream);
00377     fprintf(stream, "%s\n", text);
00378     FMC_resetStreamOutputStyle(stream);
00379 }
00380
00381 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightGreenError(FILE *stream, const char *text)
00382 {
00383     FMC_changeStreamTextColorToBrightGreen(stream);
00384     FMC_setTextStyleToBold(stream);
00385     fprintf(stream, "%s\n", text);
00386     FMC_resetStreamOutputStyle(stream);
00387 }
00388
00389 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightYellowError(FILE *stream, const char *text)
00390 {
00391     FMC_changeStreamTextColorToBrightYellow(stream);
00392     FMC_setTextStyleToBold(stream);
00393     fprintf(stream, "%s\n", text);
00394     FMC_resetStreamOutputStyle(stream);
00395 }
00396
00397 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightBlueError(FILE *stream, const char *text)
00398 {
00399     FMC_changeStreamTextColorToBrightBlue(stream);
00400     FMC_setTextStyleToBold(stream);
00401     fprintf(stream, "%s\n", text);
00402     FMC_resetStreamOutputStyle(stream);
00403 }
00404
00405 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightMagentaError(FILE *stream, const char *text)
00406 {
00407     FMC_changeStreamTextColorToBrightMagenta(stream);
00408     FMC_setTextStyleToBold(stream);
00409     fprintf(stream, "%s\n", text);
00410     FMC_resetStreamOutputStyle(stream);
00411 }
00412
00413 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightCyanError(FILE *stream, const char *text)
00414 {
00415     FMC_changeStreamTextColorToBrightCyan(stream);
00416     FMC_setTextStyleToBold(stream);
00417     fprintf(stream, "%s\n", text);
00418     FMC_resetStreamOutputStyle(stream);
00419 }
00420
00421 FMC_FUNC_FLATTEN FMC_FUNC_INLINE void FMC_printBrightWhiteError(FILE *stream, const char *text)
00422 {
00423     FMC_changeStreamTextColorToBrightWhite(stream);
00424     FMC_setTextStyleToBold(stream);
00425     fprintf(stream, "%s\n", text);
00426     FMC_resetStreamOutputStyle(stream);
00427 }
00428
00429 #endif // FMC_ERRORS
```

3.60 src/general/utils/FMC_globals.c File Reference

Include dependency graph for FMC_globals.c:



Functions

- static volatile _Atomic (FMC_Bool)
- FMC_Bool FMC_getDebugState (void)

3.60.1 Function Documentation

3.60.1.1 _Atomic()

```
static volatile _Atomic (
            FMC_Bool  )  [static]
```

Definition at line 5 of file FMC_globals.c.

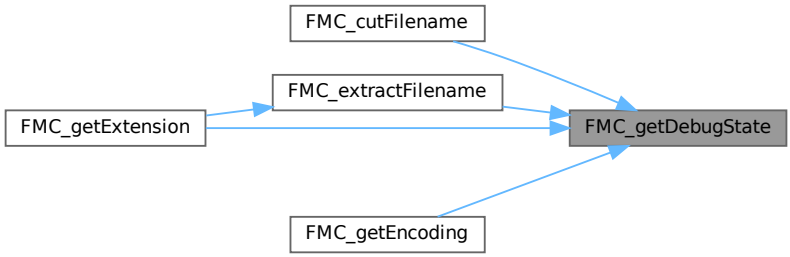
3.60.1.2 FMC_getDebugState()

```
FMC_Bool FMC_getDebugState (
            void  )
```

Definition at line 20 of file FMC_globals.c.

Referenced by FMC_cutFilename(), FMC_extractFilename(), FMC_getEncoding(), and FMC_getExtension().

Here is the caller graph for this function:



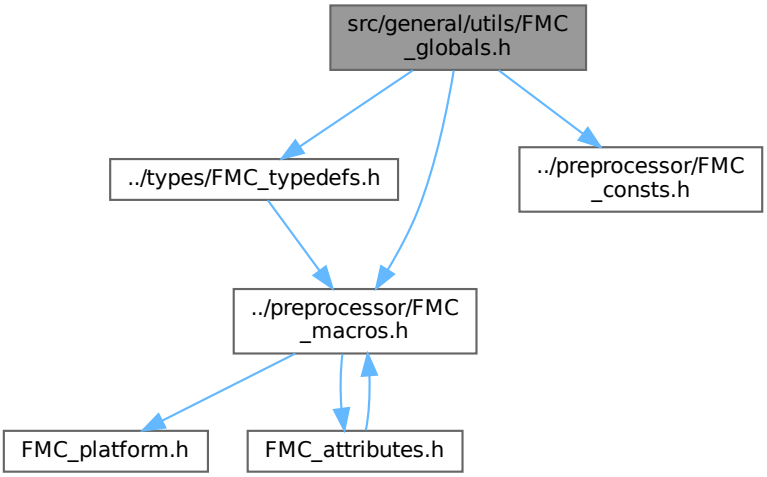
3.61 FMC_globals.c

Go to the documentation of this file.

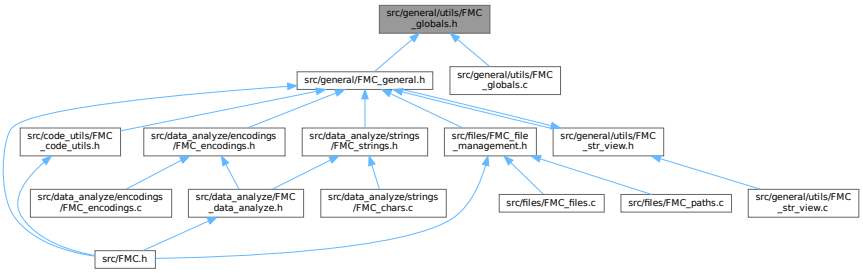
```
00001 #include <stdatomic.h>
00002 #include "FMC_globals.h"
00003
00004 #ifndef __STDC_NO_ATOMICS__
00005 FMC_SHARED static volatile _Atomic(FMC_Bool) FMC_ENABLE_DEBUG FMC_VAR_COMMON;
00006 #else
00007 FMC_SHARED static volatile FMC_Bool FMC_ENABLE_DEBUG FMC_VAR_COMMON;
00008 #endif
00009
00010 FMC_SHARED FMC_FUNC_COLD FMC_Bool FMC_setDebugState(FMC_Bool state)
00011 {
00012     #ifndef __STDC_NO_ATOMICS__
00013     atomic_store(&FMC_ENABLE_DEBUG, state);
00014     #else
00015     FMC_ENABLE_DEBUG = state;
00016     #endif
00017     return FMC_ENABLE_DEBUG == state;
00018 }
00019
00020 FMC_SHARED FMC_FUNC_HOT FMC_Bool FMC_getDebugState(void)
00021 {
00022     #ifndef __STDC_NO_ATOMICS__
00023     return atomic_load(&FMC_ENABLE_DEBUG);
00024     #else
00025     return FMC_ENABLE_DEBUG;
00026     #endif
00027 }
```

3.62 src/general/utils/FMC_globals.h File Reference

Include dependency graph for FMC_globals.h:



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



Functions

- FMC_Bool FMC_getDebugState (void)
- FMC_FUNC_COLD FMC_Bool FMC_setDebugState (FMC_Bool state)

3.62.1 Function Documentation

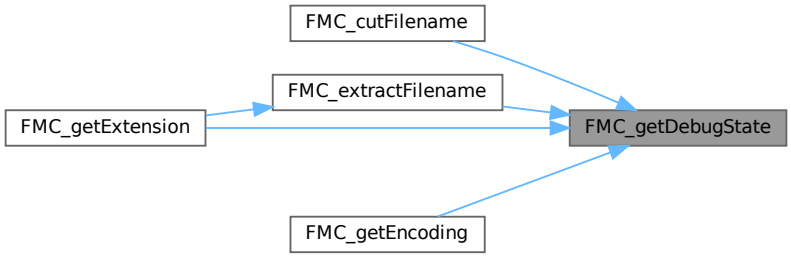
3.62.1.1 FMC_getDebugState()

```
FMC_Bool FMC_getDebugState (
            void  )
```

Definition at line 20 of file FMC_globals.c.

Referenced by FMC_cutFilename(), FMC_extractFilename(), FMC_getEncoding(), and FMC_getExtension().

Here is the caller graph for this function:



3.62.1.2 FMC_setDebugState()

```
FMC_FUNC_COLD FMC_Bool FMC_setDebugState (
            FMC_Bool state )
```

3.63 FMC_globals.h

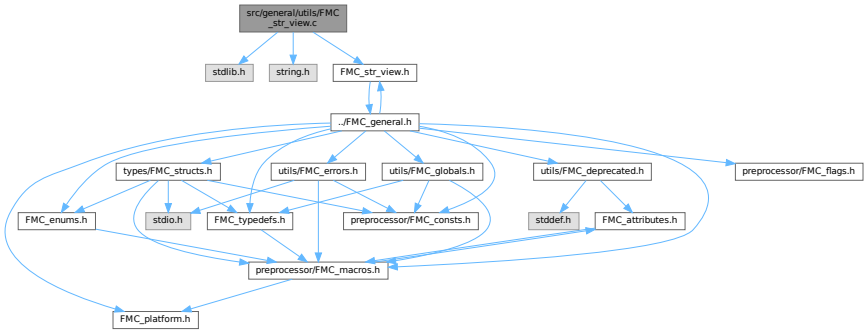
Go to the documentation of this file.

```
00001 /*
00002
00003 MIT License
00004
00005 Copyright (c) 2022-2023 Axel PASCON
00006
00007 Permission is hereby granted, free of charge, to any person obtaining a copy
00008 of this software and associated documentation files (the "Software"), to deal
00009 in the Software without restriction, including without limitation the rights
00010 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
00011 copies of the Software, and to permit persons to whom the Software is
00012 furnished to do so, subject to the following conditions:
00013
00014 The above copyright notice and this permission notice shall be included in all
00015 copies or substantial portions of the Software.
00016
00017 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
00018 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
00019 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
00020 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
00021 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
```

```
00027 #ifndef FMC_GLOBALS_H
00028 #define FMC_GLOBALS_H
00029
00030 #include "../types/FMC_typedefs.h"
00031 #include "../preprocessor/FMC_macros.h"
00032 #include "../preprocessor/FMC_consts.h"
00033
00034 FMC_SHARED FMC_FUNC_COLD FMC_Bool FMC_setDebugState(FMC_Bool state);
00035 FMC_SHARED FMC_FUNC_HOT FMC_Bool FMC_getDebugState(void);
00036
00037 #endif // FMC_GLOBALS_H
```

3.64 src/general/utils/FMC_str_view.c File Reference

Include dependency graph for FMC_str_view.c:



Functions

- void FMC_freeStrView (FMC_CStrView *view)
- FMC_FUNC_MALLOC (FMC_freeStrView, 1)

3.64.1 Function Documentation

3.64.1.1 FMC_freeStrView()

```
void FMC_freeStrView (
            FMC_CStrView * view )
```

Definition at line 49 of file FMC_str_view.c.

References FManC_CStrView::str.

3.64.1.2 FMC_FUNC_MALLOC()

```
FMC_FUNC_MALLOC (
             FMC_freeStrView ,
             1  )
```

Definition at line 31 of file FMC_str_view.c.

References len, FManC_CStrView::size, and FManC_CStrView::str.

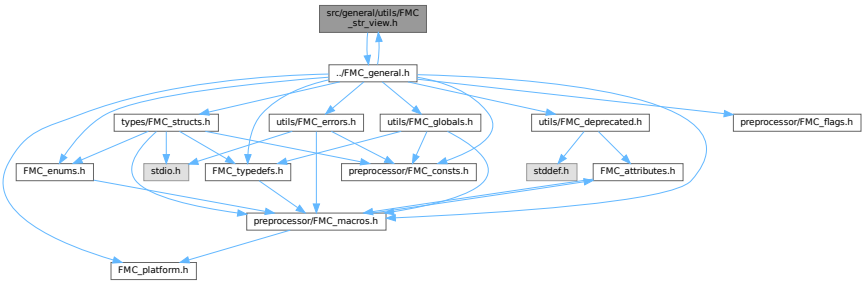
3.65 FMC_str_view.c

Go to the documentation of this file.

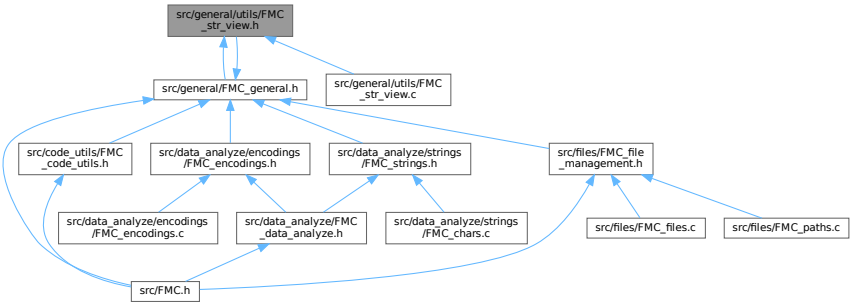
```
00001 /*
00002
00003 MIT License
00004
00005 Copyright (c) 2022-2023 Axel PASCON
00006
00007 Permission is hereby granted, free of charge, to any person obtaining a copy
00008 of this software and associated documentation files (the "Software"), to deal
00009 in the Software without restriction, including without limitation the rights
00010 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
00011 copies of the Software, and to permit persons to whom the Software is
00012 furnished to do so, subject to the following conditions:
00013
00014 The above copyright notice and this permission notice shall be included in all
00015 copies or substantial portions of the Software.
00016
00017 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
00018 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
00019 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
00020 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
00021 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
00027 #include <stdlib.h>
00028 #include <string.h>
00029 #include "FMC_str_view.h"
00030
00031 FMC_SHARED FMC_FUNC_MALLOC(FMC_freeStrView, 1) FMC_CStrView* FMC_allocStrView(const char* const str,
      size_t len)
00032 {
00033     FMC_CStrView* view = malloc(sizeof(FMC_CStrView));
00034     if (view == NULL)
00035     {
00036         return NULL;
00037     }
00038     view->size = len + 1;
00039     view->str = malloc(sizeof(char) * view->size);
00040     if (view->str == NULL)
00041     {
00042         free(view);
00043         return NULL;
00044     }
00045     strncpy(view->str, str, view->size);
00046     return view;
00047 }
00048
00049 FMC_SHARED void FMC_freeStrView(FMC_CStrView* view)
00050 {
00051     free(view->str);
00052     free(view);
00053 }
```

3.66 src/general/utils/FMC_str_view.h File Reference

Include dependency graph for FMC_str_view.h:



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



Macros

- #define FMC_STR_VIEW_H

Functions

- void FMC_freeStrView (FMC_CStrView ∗view)
- FMC_FUNC_MALLOC (FMC_freeStrView, 1) FMC_CStrView ∗FMC_allocStrView(const char ∗const str

Variables

- size_t len

3.66.1 Macro Definition Documentation

3.66.1.1 FMC_STR_VIEW_H

```
#define FMC_STR_VIEW_H
```

Definition at line 30 of file FMC_str_view.h.

3.66.2 Function Documentation

3.66.2.1 FMC_freeStrView()

```
void FMC_freeStrView (
            FMC_CStrView * view )
```

Definition at line 49 of file FMC_str_view.c.

References FManC_CStrView::str.

3.66.2.2 FMC_FUNC_MALLOC()

```
FMC_FUNC_MALLOC (
            FMC_freeStrView ,
            1  ) const
```

3.66.3 Variable Documentation

3.66.3.1 len

```
size_t len
```

Definition at line 39 of file FMC_str_view.h.

Referenced by FMC_FUNC_MALLOC().

3.67 FMC_str_view.h

Go to the documentation of this file.

```
00001 /*
00002
00003 MIT License
00004
00005 Copyright (c) 2022-2023 Axel PASCON
00006
00007 Permission is hereby granted, free of charge, to any person obtaining a copy
00008 of this software and associated documentation files (the "Software"), to deal
00009 in the Software without restriction, including without limitation the rights
00010 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
00011 copies of the Software, and to permit persons to whom the Software is
00012 furnished to do so, subject to the following conditions:
00013
00014 The above copyright notice and this permission notice shall be included in all
00015 copies or substantial portions of the Software.
00016
00017 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
00018 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
00019 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
00020 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
00021 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00022 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00023 SOFTWARE.
00024
00025 */
00026
00027 #pragma once
00028
00029 #ifndef FMC_STR_VIEW_H
00030 #define FMC_STR_VIEW_H
00031
00032 #include "../FMC_general.h"
00033
00034 #ifndef FMC_makeStrView
00035     #define FMC_makeStrView(_str, _len) ((FMC_CStrView){ .str = _str, .size = (size_t)_len })
00036 #endif
00037
00038 FMC_SHARED void FMC_freeStrView(FMC_CStrView* view);
00039 FMC_SHARED FMC_FUNC_MALLOC(FMC_freeStrView, 1) FMC_CStrView* FMC_allocStrView(const char* const str,
      size_t len);
00040
00041 #endif // FMC_STR_VIEW_H
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