

## FileEncryptor

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# Chapter 1

## File Index

### 1.1 File List

Here is a list of all files with brief descriptions:

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## Chapter 2

# File Documentation

## 2.1 FileEncryptor.c File Reference

```
#include <stdio.h>
#include <libakrypt.h>
#include <unistd.h>
#include <getopt.h>
#include <errno.h>
#include <string.h>
```

### Functions

- void [read\\_text\\_from\\_file](#) (char \*dest, char \*filename)  
*The function of reading text from a file.*
- void [write\\_text\\_to\\_file](#) (const char \*src, char \*filename)  
*The function of writing text to a file.*
- int [main](#) (int argc, char \*\*argv)

### 2.1.1 Function Documentation

#### 2.1.1.1 main()

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

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**Date**

10.2024

parse arguments

read plaintext from file

< Create libakrypt instance

< define context

< define synchrolink

< Create Magma key instance

< Generate key based on password

We encrypt the plaintext in the gamming mode with output feedback

Save ciphertext to file with enc extension

decipher example just in case

< destroy libakrypt instance

**2.1.1.2 read\_text\_from\_file()**

```
void read_text_from_file (
    char * dest,
    char * filename )
```

The function of reading text from a file.

The function that allows you to read text from a file named "filename" and write it to "dest". It is needed to get plaintext

**Parameters**

out	<i>dest</i>	Target memory area
in	<i>filename</i>	The name of file with plaintext

**2.1.1.3 write\_text\_to\_file()**

```
void write_text_to_file (
    const char * src,
    char * filename )
```

The function of writing text to a file.

The function that allows you to write the src text to a file named "filename". Creates a file with the enc extension that will store the ciphertext



## Parameters

in	<i>src</i>	The text to be written to the file
in	<i>filename</i>	The name of file with plaintext



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