sgrep

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Data Structure Documentation

3.1 sgrep_data_ Struct Reference

Data Fields

- int **case_sensitive**
- char * **reg_exp**
- FILE * **in**

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

- sgrep_data.h

Chapter 4

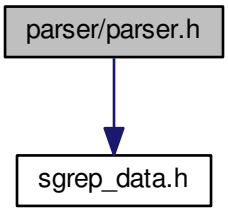
File Documentation

4.1 parser/parser.h File Reference

Functions for parsing command line options.

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

Include dependency graph for parser.h:



Macros

- #define **PARSE_OK** 0
- #define **PARSE_BAD_INDATA** 1

Functions

- int parse (int argc, char **argv, sgrep_data *data)

  The function parses a command line and stores the settings in the variables in the sgrep_data structure.

4.1.1 Detailed Description

Functions for parsing command line options.

Author

Henrik Sandklef

Date

9 dec 2015

The function is used to parse the command line options. The function stores the information gathered during parsing in the sgrep_data structure.

4.1.2 Function Documentation

4.1.2.1 int parse (int *argc,* char ** *argv,* sgrep_data * *data*)

The function parses a command line and stores the settings in the variables in the sgrep_data structure.

Parameters

argc	- the number of strings to parse
argv	- the strings to parse
data	- a pointer to sgrep_data. Set the variables according to the arguments.

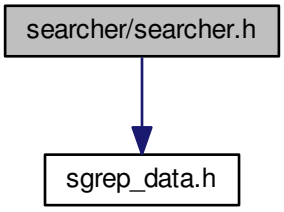
Returns

0: success, 1: bad indata

4.2 searcher/searcher.h File Reference

Functions for finding string in lines (strings)

`#include "sgrep_data.h"`
Include dependency graph for searcher.h:



Macros

- #define **SEARCHER_OK_MATCHES** 0
- #define **SEARCHER_OK_NO_MATCHES** 1
- #define **SEARCHER_BAD_INDATA** 2
- #define **SEARCHER_OUT_OF_MEM** 2

Functions

- int search_string (char *indata, sgrep_data *sdg)

Searches for a string (found in sdg) in indata.

- int search_file (sgrep_data *sdg)

  The function searches for regexp in each line of the FILE in.

- void free_data (sgrep_data *sgd)

  The function frees all allocated data in the sgrep_data struct supplied as an argument.

4.2.1 Detailed Description

Functions for finding string in lines (strings)

Author

Henrik Sandklef

Date

9 dec 2015

These functions are used to search for strings in string. The functions keep track of the number of matches and the search string itself by using the corrsponding variables in the sgrep_data struct.

4.2.2 Function Documentation

4.2.2.1 void free_data (sgrep_data * *sgd*)

The function frees all allocated data in the sgrep_data struct supplied as an argument.

Parameters

sgd	- the data to free

4.2.2.2 int search_file (sgrep_data * *sdg*)

The function searches for regexp in each line of the FILE in.

Given a valid search string (the needle), in the variable reg_exp in sgrep_data this functions checks if the string can be found in each of the lines in the variable in in sgred_data.

If any of the indata is NULL, the function returns 2.

Note

This function is allowed to print matching strings to stdout. It should be noted that it would be better to leave this to some other module.

Parameters

sdg	- struct containing string to search for and file where to search in

Returns

0: at least on match, 1: no matches found, 2: bad indata

4.2.2.3 int search_string (char * *indata,* sgrep_data * *sdg*)

Searches for a string (found in sdg) in indata.

Given a valid search string (the needle), in the variable reg_exp in sgrep_data this functions checks if the string can be found in the indata (haystack).

If any of the indata is NULL, the function returns 2.

Parameters

in	- streams to find lines in, which in turn will be checked for matches
sdg	- struct containing string to search for

Returns

0: at least on match, 1: no matches found, 2: bad indata

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